



TOWN COUNCIL REGULAR MEETING

21 Main Street

Tuesday, October 10, 2023 at 9:00 AM

AGENDA

Possible additions to the agenda and related materials are not set forth herein.

Times set forth are approximate and may be adjusted as necessary.

I. WORKSESSION - 9:00 AM

- [A.](#) A Report from the Center District School Board Member
- [B.](#) Finance Department Overview
- [C.](#) Budget Strategic Goals and Policy Updates
- [D.](#) Information and Technology Department Overview
- [E.](#) Strategic Goals Overview
- F. Agenda Review

II. REGULAR MEETING - 6:30 PM

- A. INVOCATION.
- B. PLEDGE OF ALLEGIANCE.
- C. PROCLAMATIONS AND RECOGNITIONS.
- D. CITIZEN'S TIME.
- E. APPROVAL OF THE AGENDA.
- F. PUBLIC HEARINGS.
- G. CONSENT AGENDA.
 - [a.](#) **DEFERRAL REQUEST Special Use Permit (SUP) 2023-01 St. John the Evangelist Catholic Church** – the Applicant, St. John the Evangelist Catholic Church, and the Owner, the Catholic Diocese of Arlington, seeks to amend a June 3, 1986 SUP approval to allow for the demolition of an existing building and the construction of a new 13,000 square foot office building. The subject parcel is located in the Residential (R-10) District of the Town of Warrenton Zoning Ordinance and is designated as Live/Work on the Future Land Use Map. The subject parcel (GPIN 6984-

36-7135-000) is located at 271 Winchester Street on approximately 11.0664 acres. ***The Applicant is requesting a deferral to the November Town Council meeting.***

- [b.](#) Approval of Council Minutes

April 11th, 2023.

H. DEPARTMENT REPORTS.

- [a.](#) Utilities Project Update
- [b.](#) Public Works, Road Conditions and Project Updates
- [c.](#) Zoning Update
- [d.](#) Town Attorney Report: Nondisclosure Agreements

I. NEW BUSINESS.

- [a.](#) A Report from Dominion Energy

J. UNFINISHED BUSINESS.

K. TOWN ATTORNEY'S REPORT.

L. TOWN MANAGER'S REPORT.

- a.
 - 1) Drought Conditions
 - 2) Affordable Housing Update
 - 3) Additional Items

M. COUNCIL MEMBERS TIME.

N. ADJOURNMENT.



Office of the Town Manager

Frank Cassidy

STAFF REPORT

Warrenton Town Council

Carter Nevill, Mayor
Heather Sutphin, Ward 1
William Semple, Ward 2
Brett Hamby, Ward 3
James Hartman, Ward 4 Vice Mayor
Jay Heroux, Ward 5
Paul Mooney, At Large
David McGuire, At Large

Item A.

Council Meeting Date:	October 10 th , 2023.
Agenda Title:	A Report from the Center District School Board Member
Requested Action:	Receive the Report from Ms. Susan Pauling
Department / Agency Lead:	Town Council
Staff Lead:	Frank Cassidy

EXECUTIVE SUMMARY

Ms. Susan Pauling, the Vice Chair and Center District School Board Member for Fauquier County Public schools will give a report to the Town Council.

BACKGROUND

Ms. Susan Pauling has been serving Fauquier County Public Schools since 2020.

STAFF RECOMMENDATION

Receive the report from Ms. Susan Pauling.

Service Level/Policy Impact

Cooperation with the Fauquier County School board helps the Council pursue the goal CF-1 of Plan Warrenton 2040.

***CF-1:** Serve as the central inviting public service center for Town and County residents with a proportionate share of community services provided by other governments, including a fair and reasonable balance in funding sources for community facilities.*

Fiscal Impact

No fiscal impact at this time.

Legal Impact

No Legal impact at this time.

ATTACHMENTS

1. None



Office of the Town Manager

Frank Cassidy

STAFF REPORT

Warrenton Town Council

Carter Nevill, Mayor
Heather Sutphin, Ward 1
William Semple, Ward 2
Brett Hamby, Ward 3
James Hartman, Ward 4 Vice Mayor
Jay Heroux, Ward 5
Paul Mooney, At Large
David McGuire, At Large

Item B.

Council Meeting Date:	October 10, 2023
Agenda Title:	Finance Department Overview
Requested Action:	Receive the report from the Finance Department
Department / Agency Lead:	Finance
Staff Lead:	Stephanie Miller, Finance Director

EXECUTIVE SUMMARY

This staff report provides an overview of the Finance Department, including highlights of recent accomplishments and current initiatives.

BACKGROUND

The Finance Department performs the billing, collection, budget, accounting, financial reporting, and procurement functions for the town. The department seeks to provide these services in a fair, accurate, timely, and cost-effective manner to ensure the town's continued successful operations and resiliency.

The following summary provides highlights of accomplishments from the past few years and current initiatives:

Comprehensive Fiscal Policies: In September 2021, the Town Council adopted the *Comprehensive Fiscal Policies*. A comprehensive set of fiscal policies serves the Town and its citizens by ensuring compliance with applicable laws and regulations, providing straightforward guidance to assist in safeguarding and properly accounting for public funds and other assets, and assuring that sufficient funds are available to meet the needs of its citizens. The Town endeavors to review these policies on an annual basis in conjunction with the budget process. A review of suggested policy updates is on today's agenda.

Debt Management:

- In 2021, staff worked with the Town's financial advisors to refinance all outstanding debt. Taking advantage of prevailing low interest rates allowed the Town to achieve **net present value savings of \$1,669,781**.
- Staff calculate our policy ratios annually to ensure compliance with our adopted policies. This data was presented most recently to the Council at the Fiscal Retreat held on February 25, 2023, a copy of which is attached to the agenda item for reference. The policies related to debt are as follows:
 - General Fund debt service will not exceed 12% of General Fund expenditures.
 - General Fund total debt will not exceed 1.5% of the assessed value of taxable property.
 - The Water and Sewer fund will maintain a debt service coverage ratio of 1.15x.

Budget Software Implementation: In Fiscal Year 2023, the department successfully implemented OpenGov budgeting software, which streamlines the process for the submittal of budget requests for departments and provides key enhancements over the old method of preparing the budget. The OpenGov software pulls data nightly from our financial software, which will provide real-time data for departments to

review against their approved budgets. The software also features the ability to create an online budget book, which may be viewed on the Town's website.

GFOA Distinguished Budget Presentation Award Program: Staff submitted the Fiscal Year 2024 Adopted Budget to be considered for this award. To earn this recognition, the budget document must meet the program criteria and excel as a policy document, financial plan, operations guide, and communication tool.

GFOA Award for Excellence in Financial Reporting: The Town has received this award for its annual comprehensive financial report (ACFR) for the past 27 years and received notification just recently that it was awarded again for the Fiscal Year 2022 ACFR.

Fiscal Year 2025 Budget: The Fiscal Year 2025 budget kick-off for Town departments is scheduled for the first week of October. Through the Town Manager's Town Talks, we hope to engage the community in the budget process.

Long-term Financial Planning: A high-level 5-year financial forecast was drafted for the Fiscal Retreat in February 2023. This will be maintained and rolled forward to assist in projecting the need to adjust taxes, rates, and strategically program debt issuances through the budget process.

Capital Improvement Program document improvements: In the development of the 2024-2029 CIP, we incorporated additional information to enhance the planning and transparency of the document.

- We added a column for prior authorization to capture funding provided for projects in prior periods.
- We also added a cost escalation factor for funding programmed in the out years, which was especially necessary given recent inflationary pressures.
- We added a contingency line item of 10% to cover unanticipated cost overruns.
- We incorporated funding source summaries to identify local, grant, and debt funding for all projects.

Water and Sewer Rate Study Update: In 2022, Staff engaged NewGen Strategies and Solutions and our financial advisors, Davenport & Company, to complete an updated rate study and to provide financing recommendations.

- The Water and Sewer system is a self-supporting enterprise fund within the Town's reporting structure, meaning it is not subsidized by the General Fund.
- User rates and availability fees should be set at rates sufficient to cover the costs associated with operations and capital. Operating expenses and non-growth capital are considered when evaluating necessary user rate increases, and growth capital is evaluated when setting availability fees.
- Over the last five years, operating revenues reflected an average annual growth rate of 1.5% while operating expenses grew at an average rate of 3.2%. This imbalance coupled with the capital needs related to aging infrastructure necessitated the study.
- The goal was to balance cash funding with strategic debt issuances to fund the necessary modernizations.
- The presentation provided by NewGen and Davenport at the May 2023 work session is attached to the agenda item for reference. While rates were projected through FY 2029, the recommended rate increase of 23% was adopted for FY 2024 as part of the annual budget after a duly advertised public hearing held at the June 2023 Council meeting.
- After the rate increase, the monthly bill for a median residential user (3,000 gallons per month) is less than half of the monthly bill for a Fauquier WSA customer.

- It is a recommended practice to review rates on an annual basis and to conduct a rate study every three to five years.

Enterprise Resource Planning Software: Staff are working with the Information Technology department to effectively design a process for soliciting a new Enterprise Resource Planning system. Our current software is extremely reliable but is outdated and cannot easily perform some of the more robust reporting functions that are common with newer applications. As more departments move to newer software (such as permits and parks and recreation), we are finding there are not effective and automatic integrations. This creates more manual processes and reconciliations for our staff, which also provides more opportunities for error and a lack of timeliness and accuracy in financial reporting.

Collections: Our Tax Administrator has improved collections in all areas, with emphasis on meals tax and business licensing compliance. The Town also enacted an ordinance allowing us to engage the services of Tax Authority Consulting Services (TACS) to outsource collections of delinquent accounts at no cost to the town.

Procurement: Staff are working to update the procurement policy and procedures to provide more user-friendly guides for departmental users. We are also evaluating various Purchasing card programs to streamline purchasing for departments while ensuring compliance with our adopted policies.

Finance 101 Training: Staff developed a presentation to assist new employees with finance-related duties in their new roles. The presentation provides an overview of the department and covers items such as purchasing thresholds, how to complete a purchasing requisition, how to pay a bill, and how to read their financial reports.

Service Level/Policy Impact

The Finance Department’s role is to provide support to other Town departments. In doing so, we create a fiscally healthy and resilient organization that is able to pursue the goals of Plan Warrenton 2040.

Fiscal Impact

There is no fiscal impact associated with this report. The initiatives noted above will be accomplished within the department’s adopted budget.

Legal Impact

There is no legal impact associated with this report.

ATTACHMENTS



Fiscal Review and Analysis
Town Council Annual Fiscal Retreat
February 25, 2023

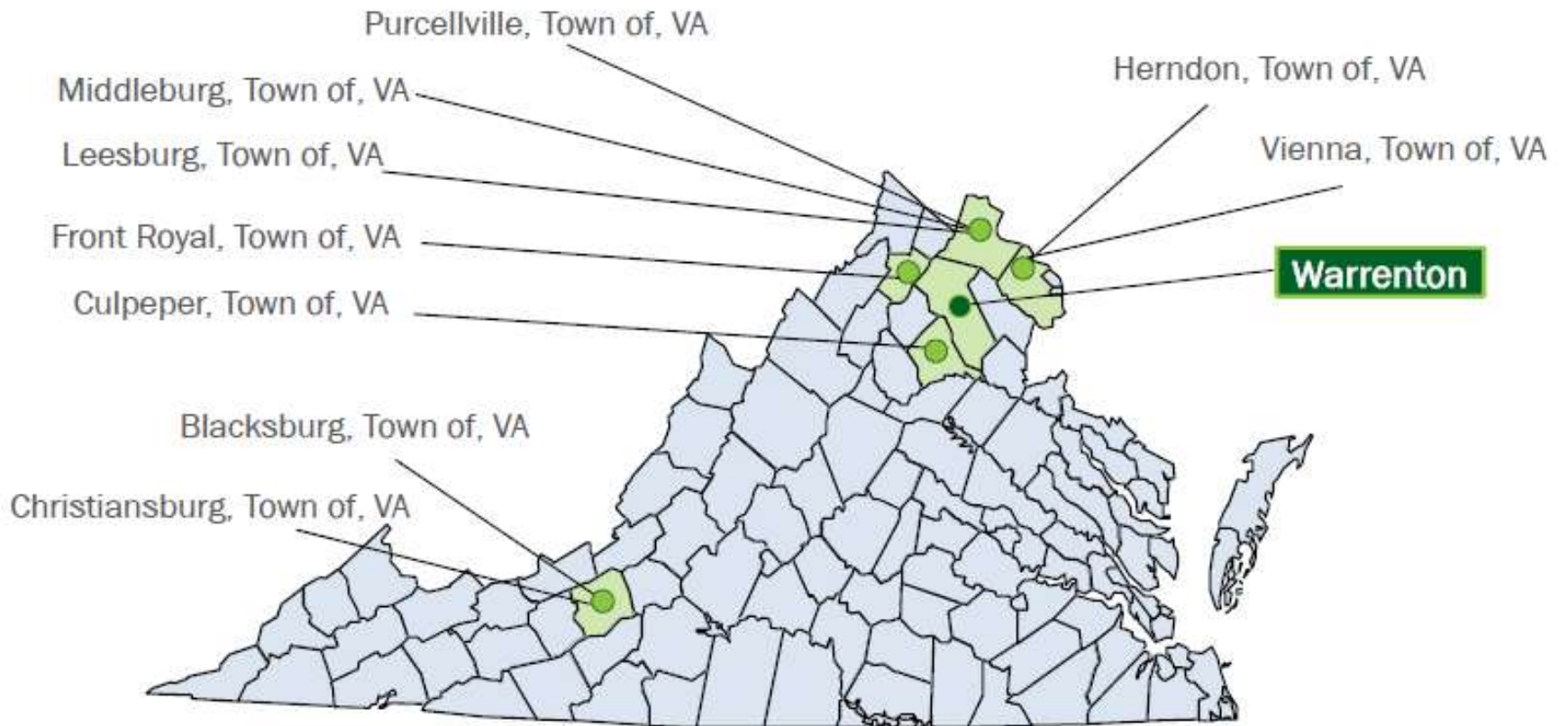
Agenda

Item B.

- General Fund Overview
 - Peer Comparisons
 - Fund Balance History and Trends
 - Review Historical Revenue and Expenditure Trends
 - Debt Management and Capacity
- Enterprise Fund Overview
 - Water and Sewer
 - Stormwater Management
- Human Capital Overview
- Capital Improvements & Capital Asset Replacement
- 5-Year Financial Projection

Peer Comparisons



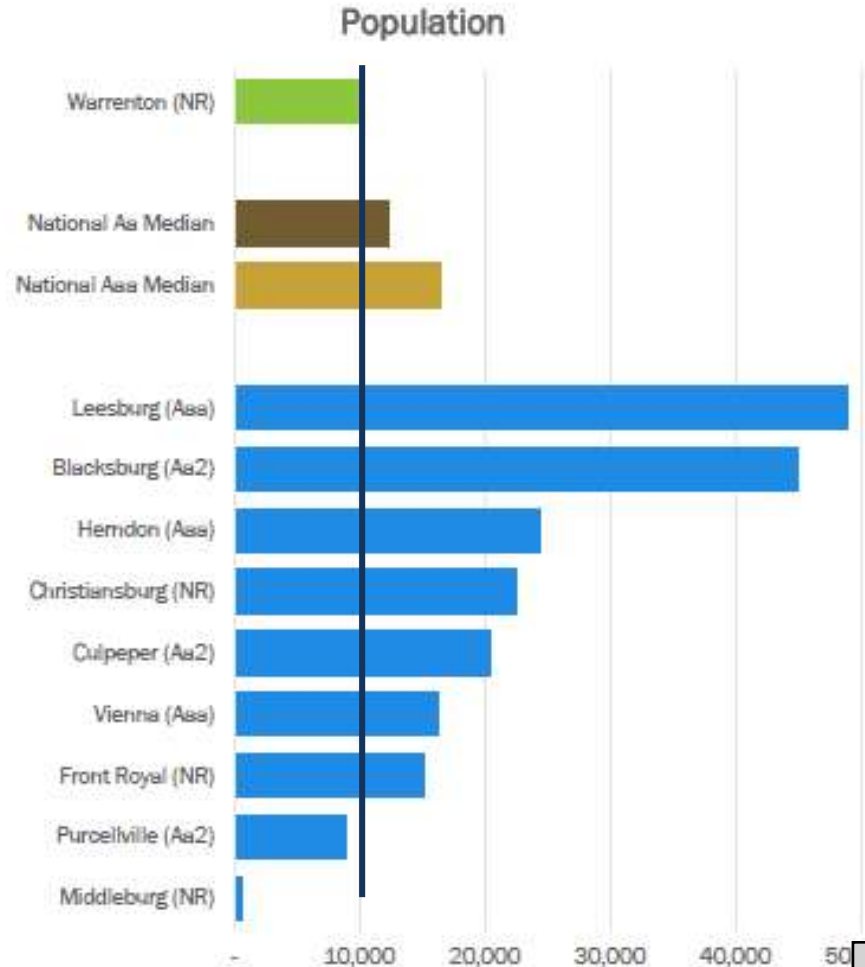


Population Comparison

Locality	Population
Warrenton (NR)	10,109
National Aa Median ⁽¹⁾	12,364
National Aaa Median ⁽¹⁾	16,534
Leesburg (Aaa)	48,908
Blacksburg (Aa2)	44,949
Herndon (Aaa)	24,339
Christiansburg (NR)	22,615
Culpeper (Aa2)	20,493
Vienna (Aaa)	16,329
Front Royal (NR)	15,155
Purcellville (Aa2)	9,040
Middleburg (NR)	669

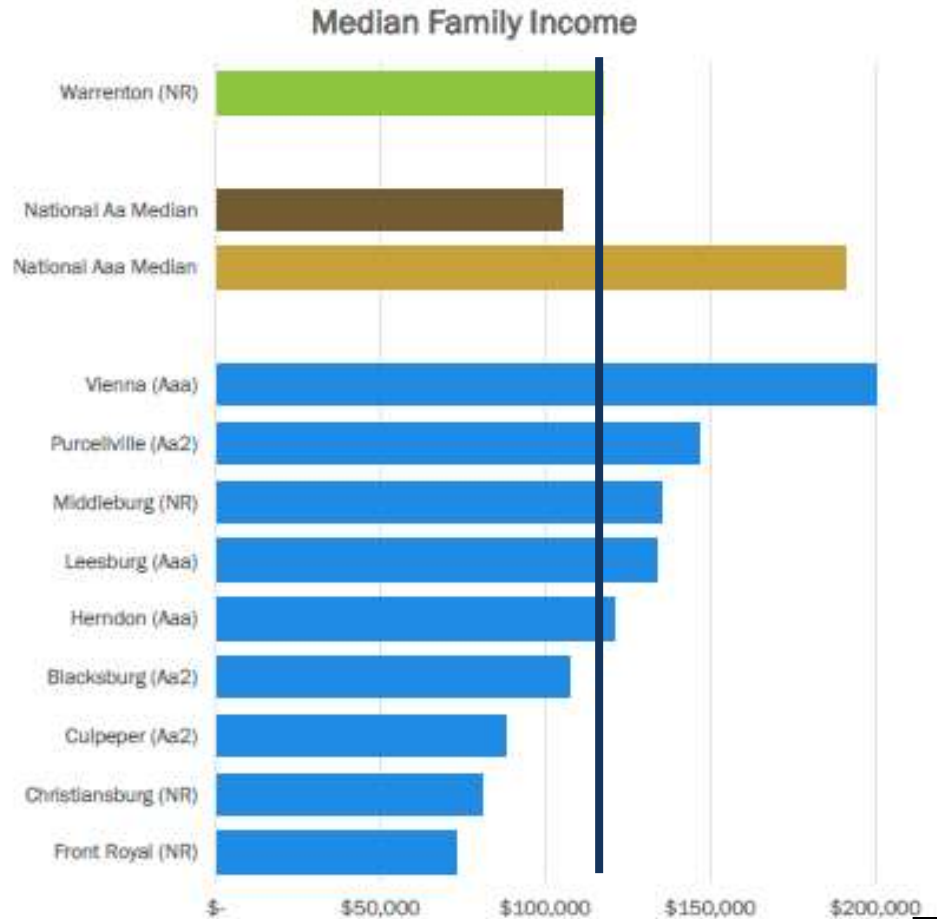


Note: NR = Not Rated



Median Family Income Comparison

Locality	Median Family Income
Warrenton (NR)	\$117,162
National Aa Median ⁽¹⁾	105,315
National Aaa Median ⁽¹⁾	190,806
Vienna (Aaa)	233,355
Purcellville (Aa2)	146,464
Middleburg (NR)	135,250
Leesburg (Aaa)	133,660
Herndon (Aaa)	120,786
Blacksburg (Aa2)	107,279
Culpeper (Aa2)	87,572
Christiansburg (NR)	80,855
Front Royal (NR)	72,982



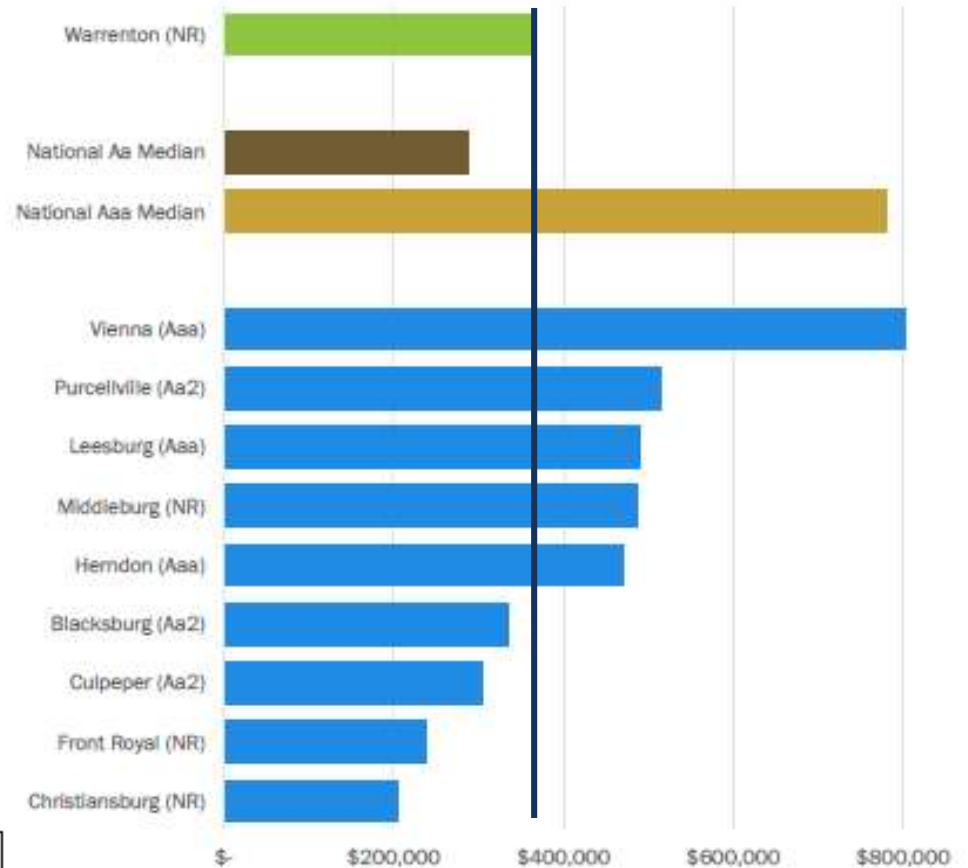
Median Home Value Comparison

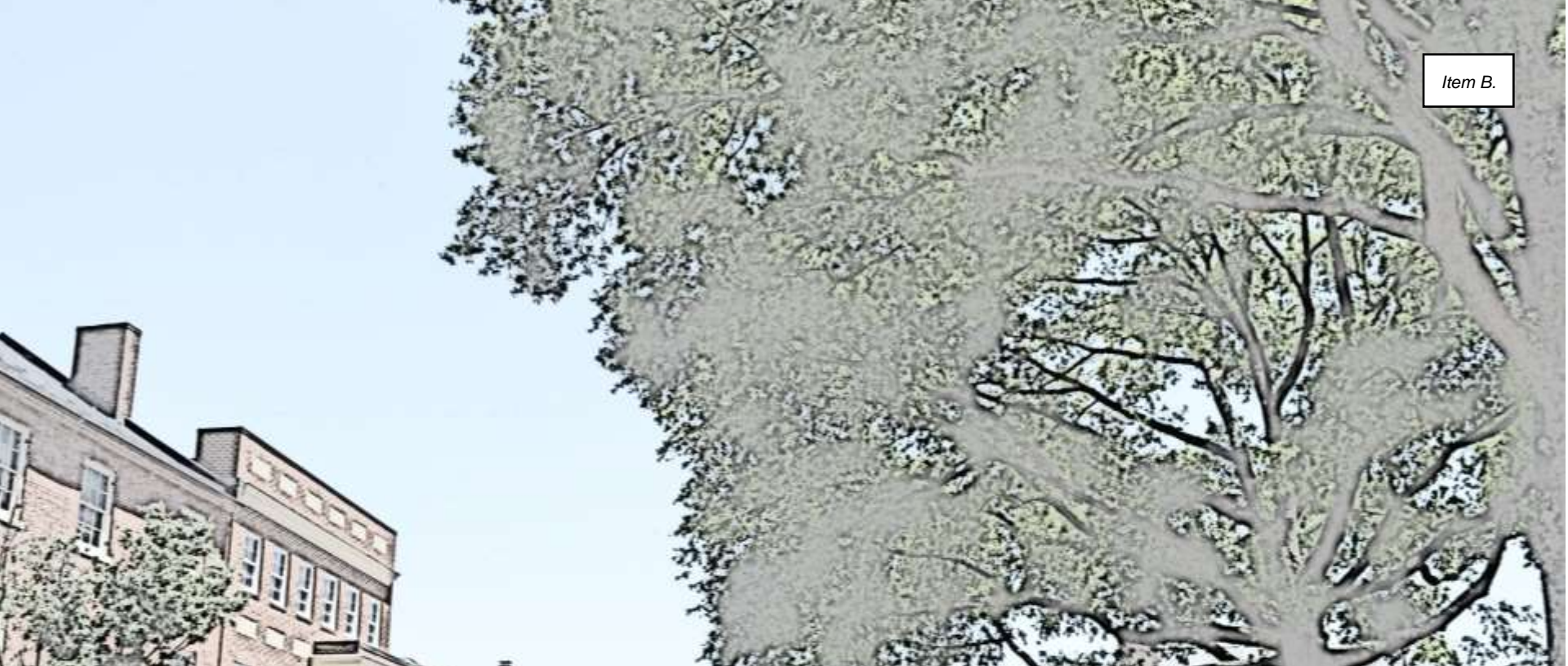
Locality	Median Home Value
Warrenton (NR)	\$363,000
National Aa Median ⁽¹⁾	288,500
National Aaa Median ⁽¹⁾	779,350
Vienna (Aaa)	827,800
Purcellville (Aa2)	514,900
Leesburg (Aaa)	490,500
Middleburg (NR)	488,200
Herndon (Aaa)	470,200
Blacksburg (Aa2)	335,200
Culpeper (Aa2)	304,100
Front Royal (NR)	237,800
Christiansburg (NR)	205,000



Median Home Value	Tax Rate	Tax Bill	Median Family Income	Tax Burden
\$363,000	0.0401	\$145.56	\$117,162	0.124%

Median Home Value





General Fund Balance



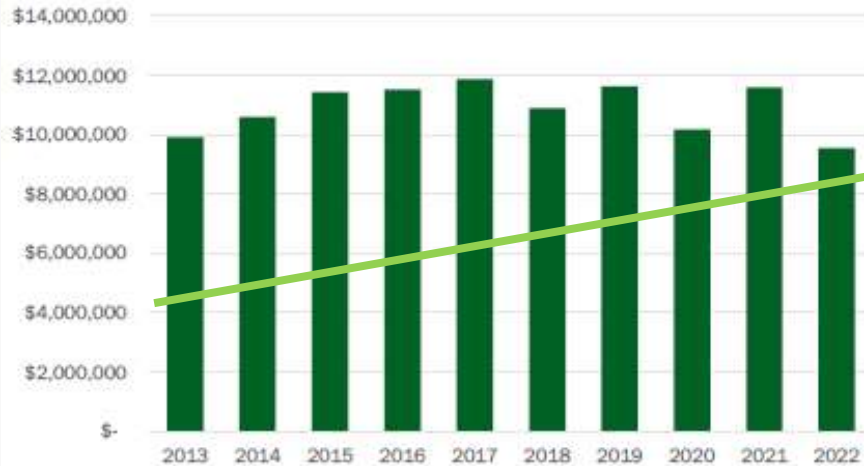
Points to Consider

Item B.

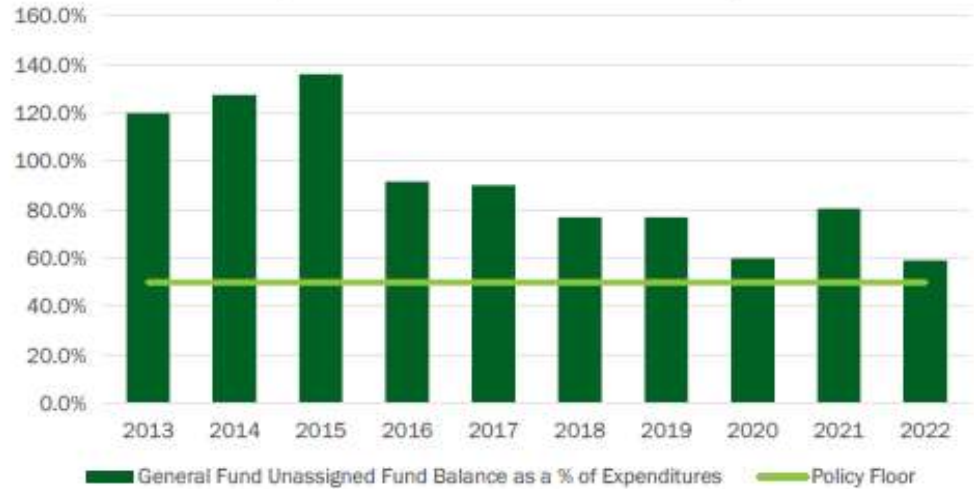
- The Town is in a very strong and stable financial position.
- The Town compares favorably to our benchmarks and highly rated national medians with respect to key demographic and economic indicators.
- Cash funding over the last 5 years for:
 - capital projects totals \$5.2 million.
 - asset replacements totals \$7.1 million.
- The Town is heavily reliant on business and consumer related taxes that can be more volatile in an economic downturn or slowdown.
- The Town has a healthy unassigned fund balance and a conservative fund balance policy.
 - Provides a buffer against revenue volatility, economic downturns.
- The Town has very low General Fund debt levels relative to best practices.

Unassigned Fund Balance Policy

General Fund Unassigned Fund Balance



Unassigned Fund Balance as a % of Expenditures



Fiscal Year	General Fund Unassigned Fund Balance	General Fund Expenditures	General Fund Unassigned Fund Balance as a % of Expenditures	Policy Floor
2013	\$ 9,909,063	\$ 8,264,710	119.9%	50.0%
2014	10,593,545	8,311,001	127.5%	50.0%
2015	11,431,690	8,405,083	136.0%	50.0%
2016	11,521,316	12,572,684	91.6%	50.0%
2017	11,871,309	13,177,504	90.1%	50.0%
2018	10,894,756	14,174,381	76.9%	50.0%
2019	11,611,907	15,104,029	76.9%	50.0%
2020	10,178,740	16,968,273	60.0%	50.0%
2021	11,575,773	14,387,844	80.5%	50.0%
2022	9,542,190	16,129,651	59.2%	50.0%

Current Policy: "The Town of Warrenton will maintain a minimum unassigned fund balance in the General Fund equal to 50% of the current annual operating expenditure budget."

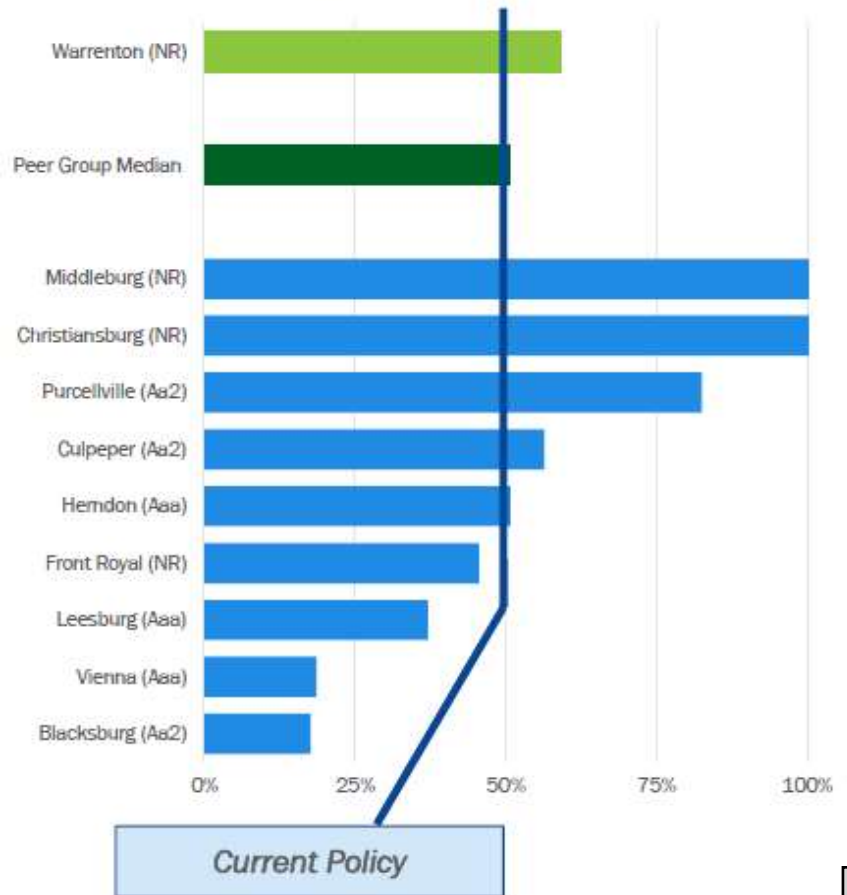
Peer Comparison – UFB as % of expenditures

Unassigned Fund Balance compared to Expenditure (General Fund)

Locality	%	\$
Warrenton (NR)	59.2%	\$ 9,542,190
Peer Group Median	50.8%	\$ 8,863,651
Middleburg (NR)	236.7%	\$ 27,265,079
Christiansburg (NR)	110.3%	\$ 22,336,003
Purcellville (Aa2)	82.6%	\$ 16,999,208
Culpeper (Aa2)	56.4%	\$ 12,466,186
Herndon (Aaa)	50.8%	\$ 8,863,651
Front Royal (NR)	45.6%	\$ 6,662,229
Leesburg (Aaa)	37.1%	\$ 5,867,423
Vienna (Aaa)	18.6%	\$ 5,039,513
Blacksburg (Aa2)	17.6%	\$ 4,778,490



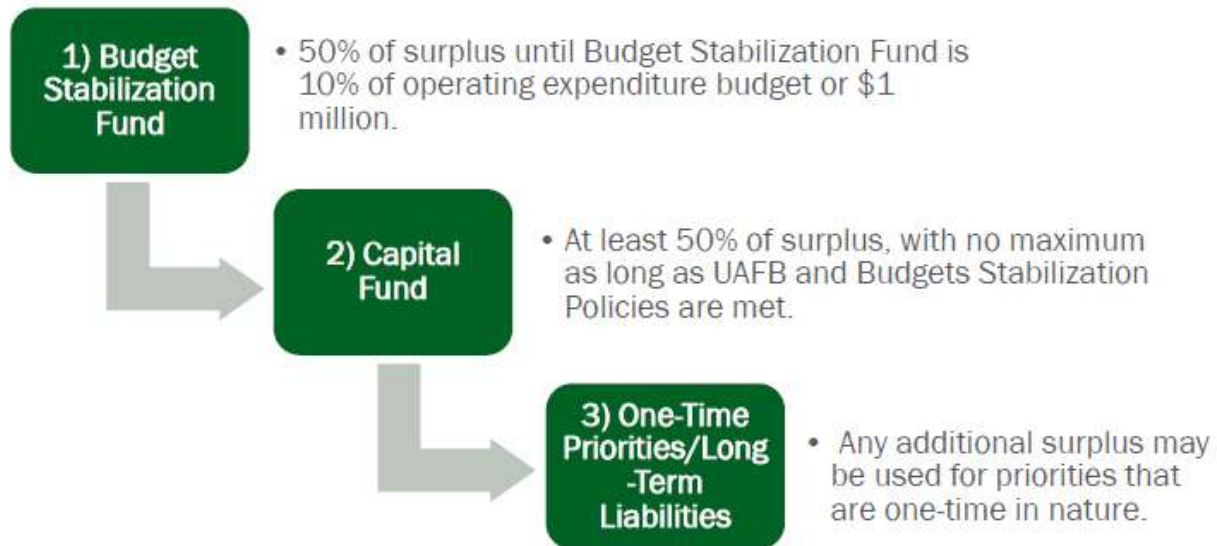
Unassigned Fund Balance as % of Expenditures (General Fund)



General Fund Balance – Waterfall Provision

Maintenance of Minimum Unassigned General Fund Balance Level/Use of Year-end Operating Surplus:

- a. Annual surplus revenues will be allocated to the Unassigned Fund Balance (“UAFB”) until the 50% minimum policy target is met;
- b. If the 50% Unassigned Fund Balance minimum policy is met, the remaining annual surplus funds will be allocated as follows:



Recommendation: consider allocating any existing balance over the 50% under this provision rather than just the net change for a given fiscal year.

Current Unassigned Fund Balance



60% 9,542,190

50%	8,206,542	Policy level
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Balance above policy = 1,335,648

50%

Budget Stabilization

249,909 current balance

667,824

917,733

50%

Capital

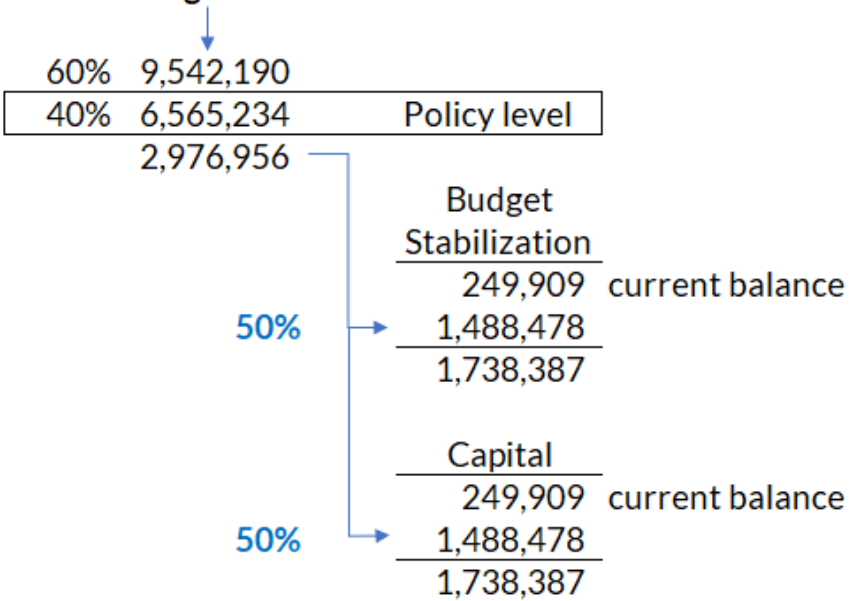
249,909 current balance

667,824

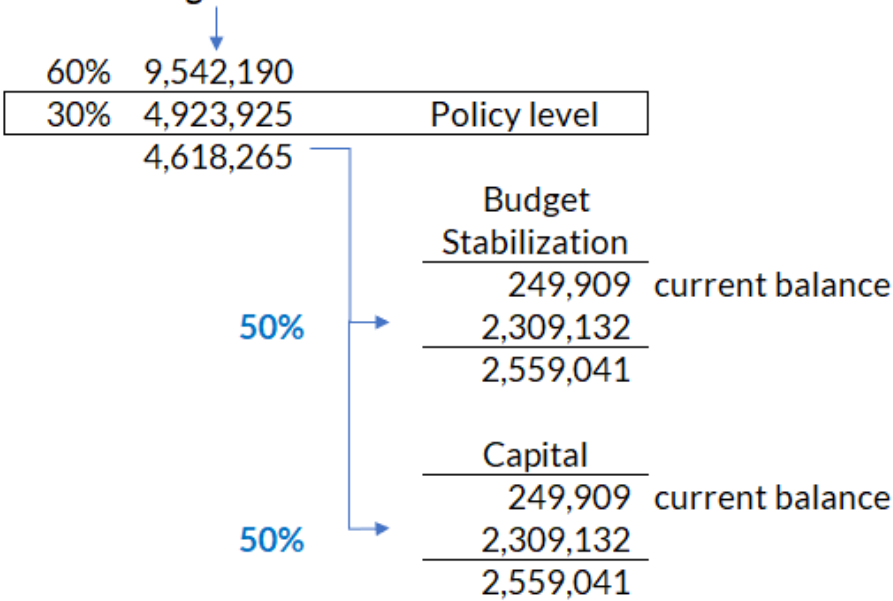
917,733



Current Unassigned Fund Balance



Current Unassigned Fund Balance



Fund Balance Policy Recommendations

- As of Fiscal Year 2022, the Town’s Unassigned Fund Balance levels remain above its policy floor at roughly 60% of Expenditures.
- As shown below, Moody’s Criteria for General Obligation Credits defines categories for Unassigned Fund Balance as a Percentage of Revenues. Moody’s defines the “Very Strong” threshold for Aaa credits as those with fund balance levels exceeding 30%.
- It would be prudent for the Town to continue to maintain its Fund Balance Policy at such a strong level given the magnitude of capital projects it is contemplating and the potential for economic uncertainty.

– Very Strong (Aaa):	> 30%	← Targeted minimum threshold range
– Strong (Aa):	30% - 15%	
– Moderate (A):	15% - 5%	
– Weak/Very Poor (Baa & below):	5% - 0%	

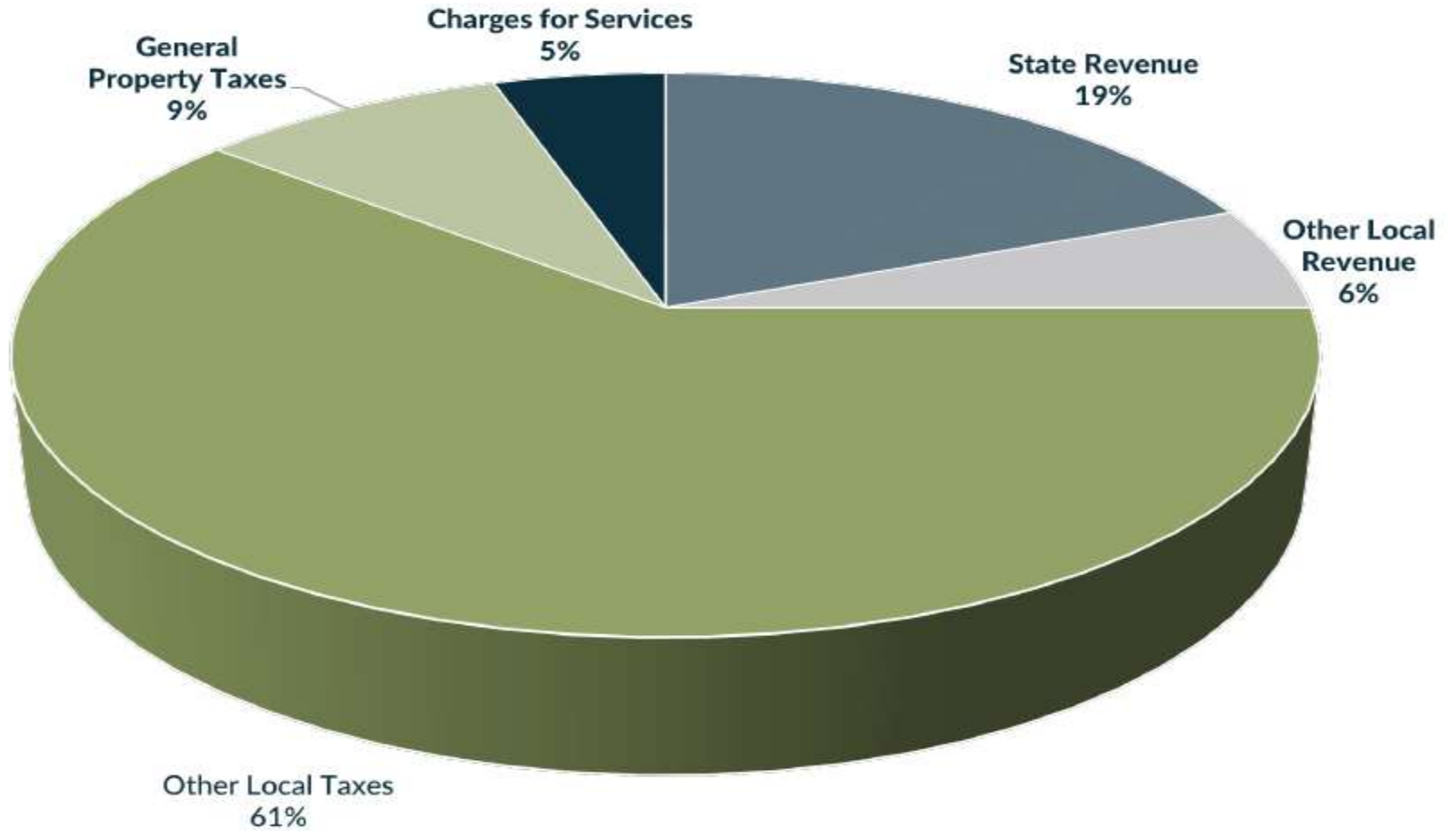
Historical General Fund Financials



Highlights

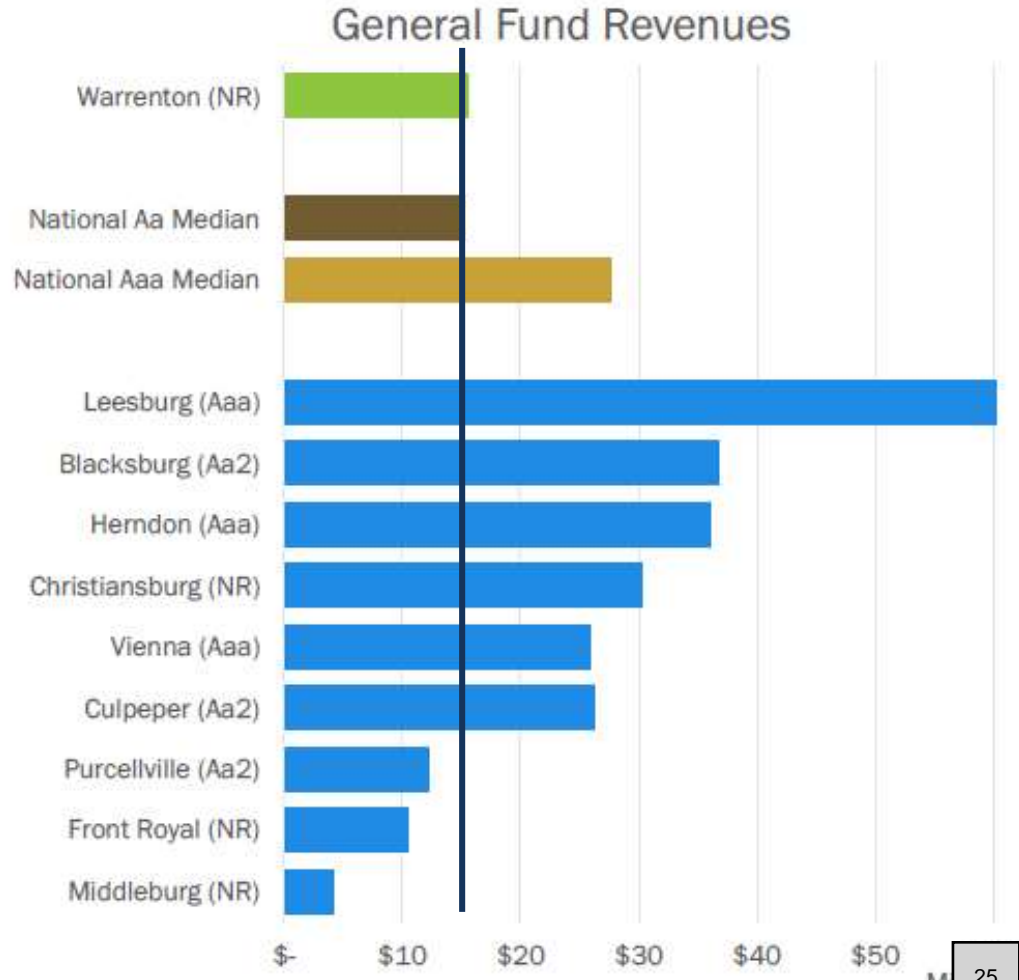
- General Fund **expenditures have exceeded revenues** in 3 of the past 5 years.
- General Property Taxes (real estate and personal property) per capita **have not kept pace with inflation.**
- **Other local taxes comprise over 50%** of General Fund revenues.
- While our revenue streams are diverse, the Town is heavily weighted towards **economically sensitive business and consumption related taxes.**
- **Significant increase in Assessed Value** of Taxable Property due to real estate reassessment in 2022.

FY23 REVENUE BY SOURCE



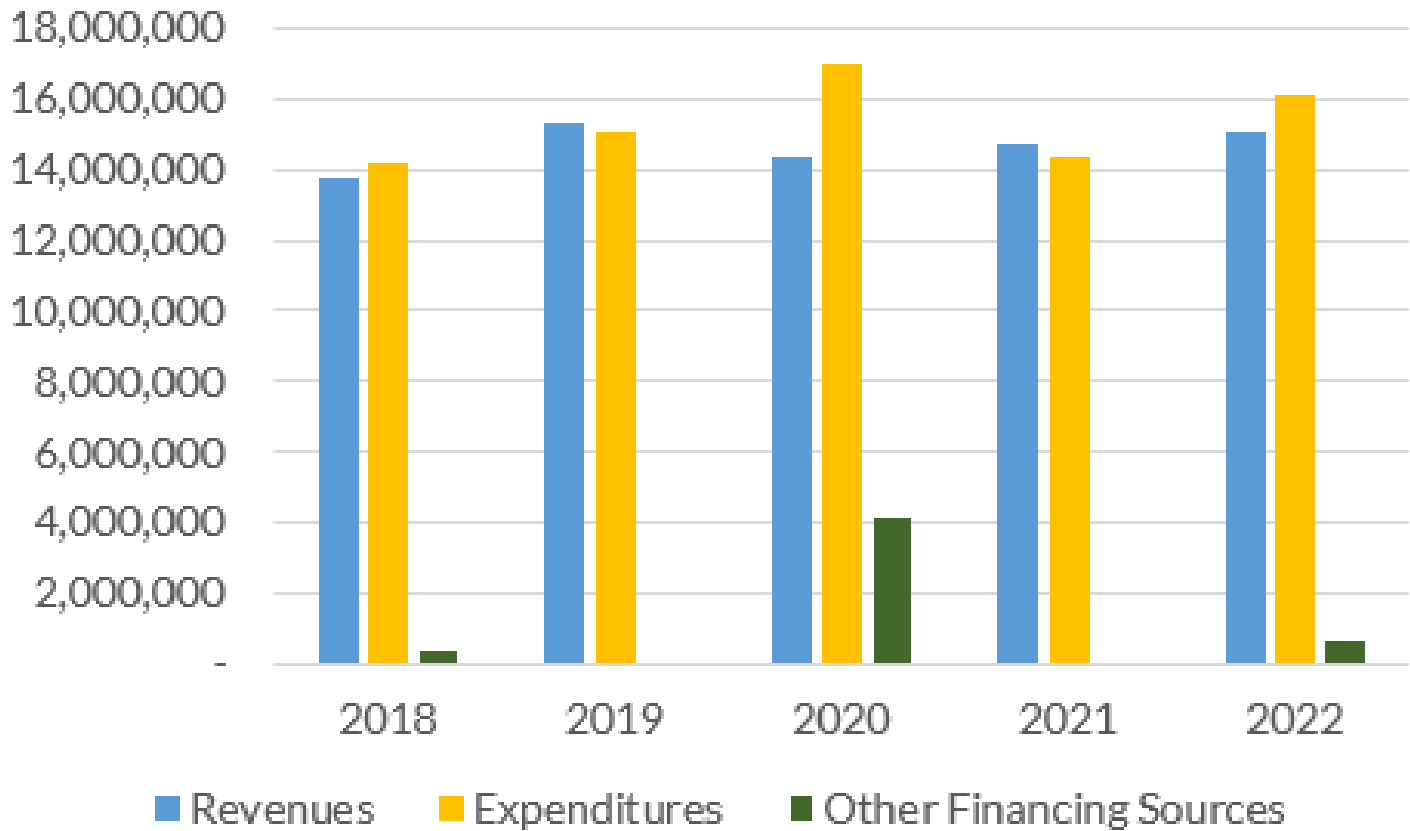
General Fund Revenues Comparison

Locality	General Fund Revenues
Warrenton (NR)	\$15,588,490
National Aa Median ⁽¹⁾	15,172,000
National Aaa Median ⁽¹⁾	27,600,500
Leesburg (Aaa)	65,727,940
Blacksburg (Aa2)	36,765,400
Herndon (Aaa)	36,100,427
Christiansburg (NR)	30,201,297
Vienna (Aaa)	25,798,375
Culpeper (Aa2)	26,239,828
Purcellville (Aa2)	12,258,071
Front Royal (NR)	10,479,885
Middleburg (NR)	4,199,729



Revenues and Expenditures

Item B.



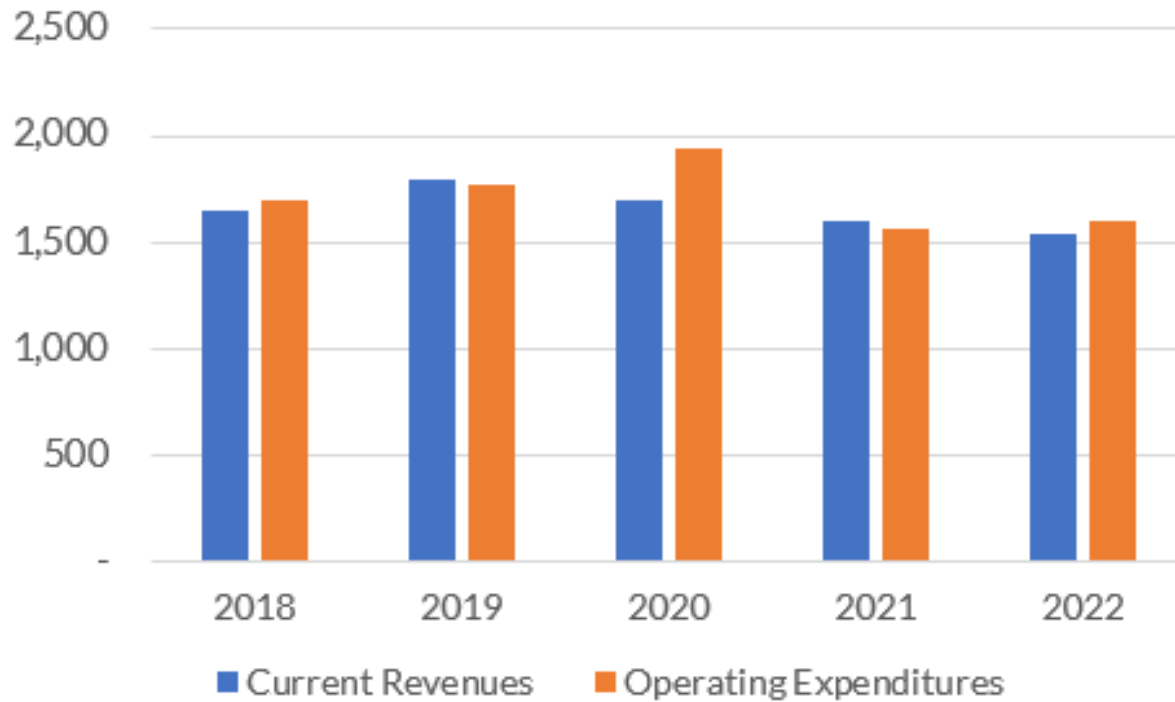
Fiscal Year	2018	2019	2020	2021	2022
Revenues	13,731,060	15,358,784	14,351,864	14,713,735	15,107,471
Expenditures	14,174,381	15,104,029	16,968,273	14,387,844	16,129,651
Other Financing Sources	326,709	-	4,100,000	-	659,171
Net change in fund balance	(116,612)	254,755	1,483,591	325,891	(363,009)

Average increase in revenues 2.62%
 Average increase in expenditures 3.95%

Notes:

CRF funding used for public safety salaries removed.



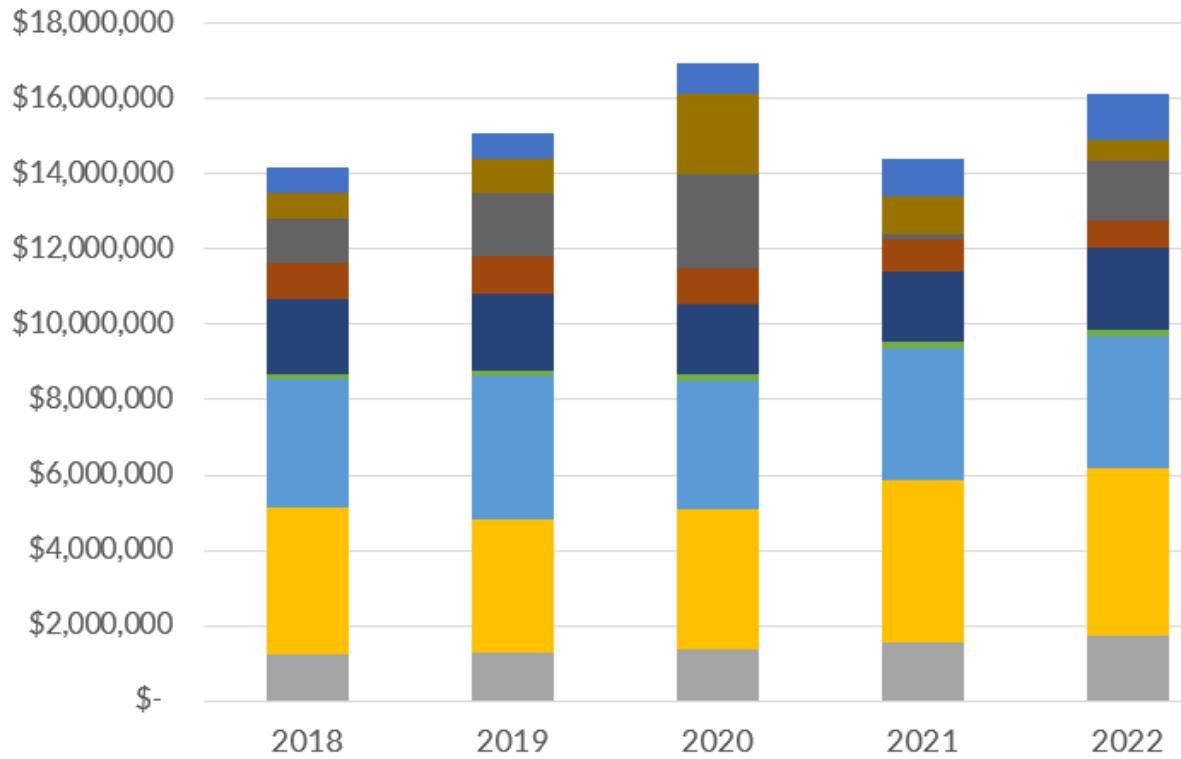


Revenues and Expenditures Per Capita and Inflation Adjusted

Fiscal Year	2018	2019	2020	2021	2022
Population	9,875	9,937	10,065	10,057	10,109
Inflation Multiplier	1.18x	1.16x	1.15x	1.09x	1.00x
Current Revenues	1,641	1,793	1,698	1,601	1,542
Operating Expenditures	1,694	1,763	1,939	1,559	1,596
Surplus/(Deficit)	(53)	30	(241)	42	(54)

Expenditures by Function

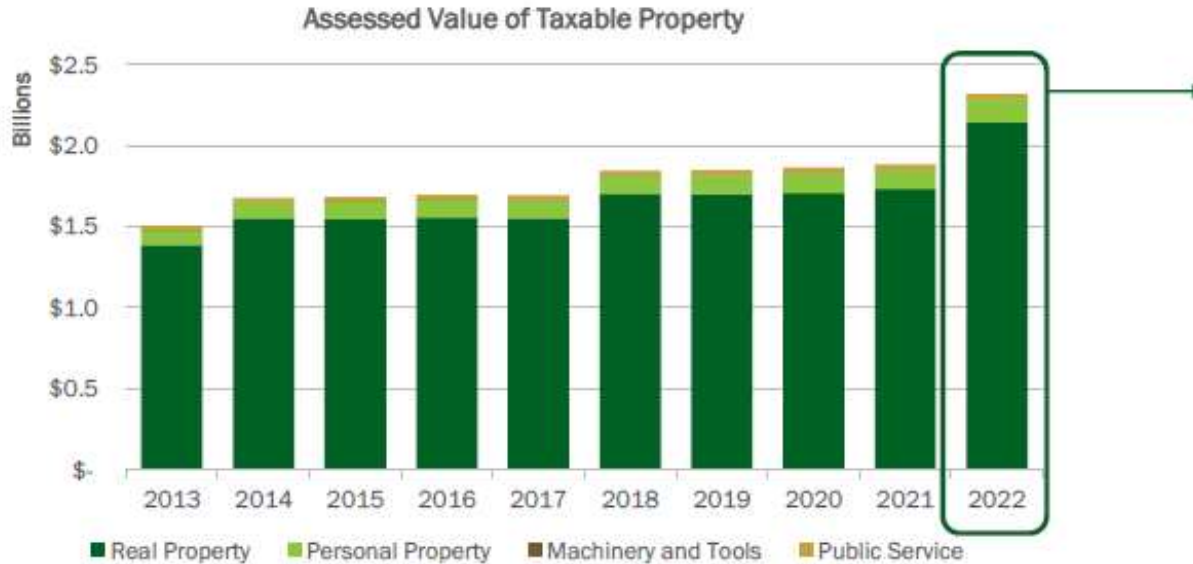
Item B.



Expenditures by Function

	Fiscal Year	2018	2019	2020	2021	2022
General Government Administration	\$	1,242,131	\$ 1,292,870	\$ 1,346,561	\$ 1,543,266	\$ 1,716,121
Public Safety		3,912,693	3,536,374	3,731,363	4,316,166	4,488,739
Public Works		3,370,708	3,796,095	3,443,271	3,498,257	3,466,980
Health and Welfare		133,891	161,934	177,910	183,554	173,361
Parks, Recreation and Cultural		2,042,098	2,040,281	1,855,164	1,851,122	2,216,458
Community Development		941,537	998,655	956,701	893,149	714,724
Capital Outlay		1,185,992	1,689,813	2,469,442	141,058	1,595,088
Capital Projects		676,987	870,375	2,170,295	993,676	529,010
Debt Service		668,344	717,632	817,566	967,596	1,227,000
Total	\$	14,174,381	\$ 15,104,029	\$ 16,968,273	\$ 14,387,844	\$ 16,127,001

Assessed Value

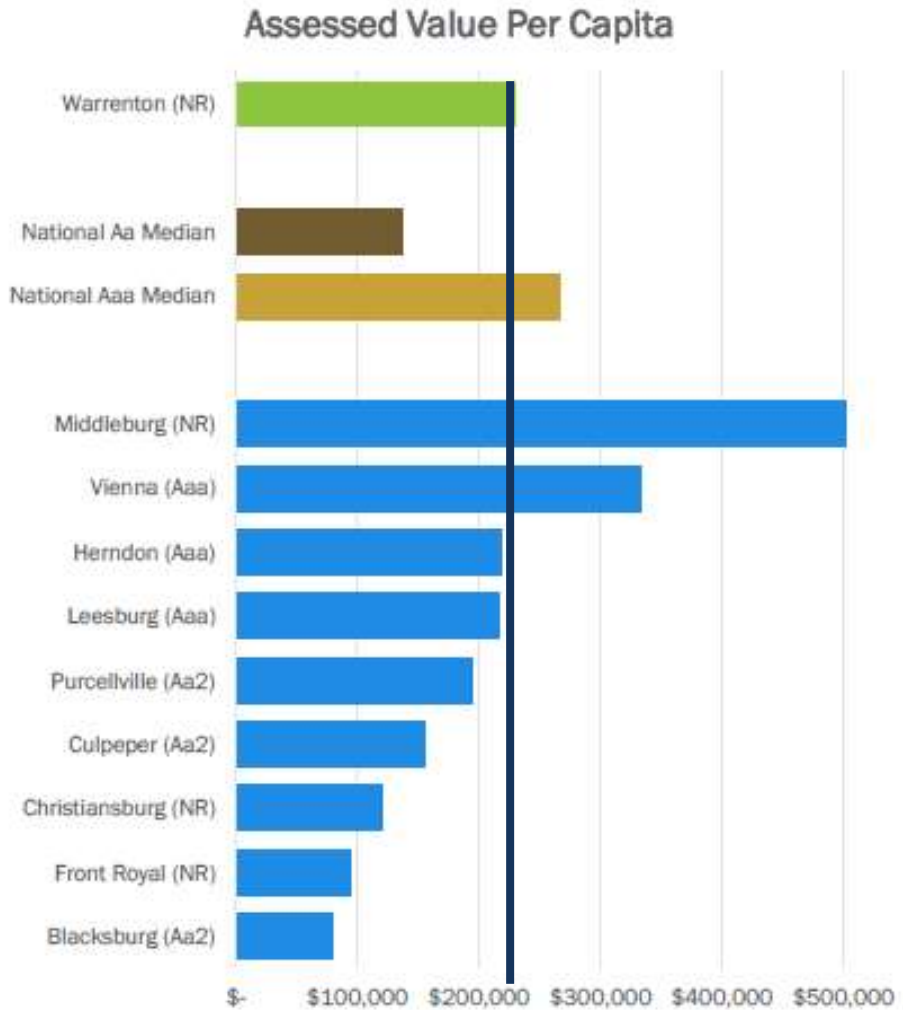


Assessed Value of Taxable Property

Fiscal Year	Real Property		Personal Property		Machinery and Tools		Public Service		Total Taxable Assessed Value	
	Value	%	Value	%	Value	%	Value	%	Value	%
2013	1,388,763,400	N/A	93,279,002	N/A	366,978	N/A	26,002,462	N/A	1,508,411,842	N/A
2014	1,554,110,600	12%	99,076,256	6%	362,438	-1%	26,004,347	0%	1,679,553,641	11%
2015	1,548,458,500	0%	110,060,306	11%	379,240	5%	26,169,523	1%	1,685,067,569	0%
2016	1,559,784,700	1%	110,382,101	0%	362,252	-4%	26,233,712	0%	1,696,762,765	1%
2017	1,555,378,500	0%	111,836,351	1%	350,166	-3%	26,222,252	0%	1,693,787,269	0%
2018	1,707,497,200	10%	111,426,844	0%	381,478	9%	26,933,972	3%	1,846,239,494	9%
2019	1,704,181,500	0%	112,782,292	1%	358,690	-6%	30,080,458	12%	1,847,402,940	0%
2020	1,711,588,500	0%	121,035,613	7%	314,281	-12%	32,388,996	8%	1,865,327,390	1%
2021	1,735,031,400	1%	119,184,134	-2%	511,075	63%	30,341,699	-6%	1,885,068,308	1%
2022	2,146,350,500	24%	141,771,009	19%	452,805	-11%	30,915,674	2%	2,319,489,988	23%

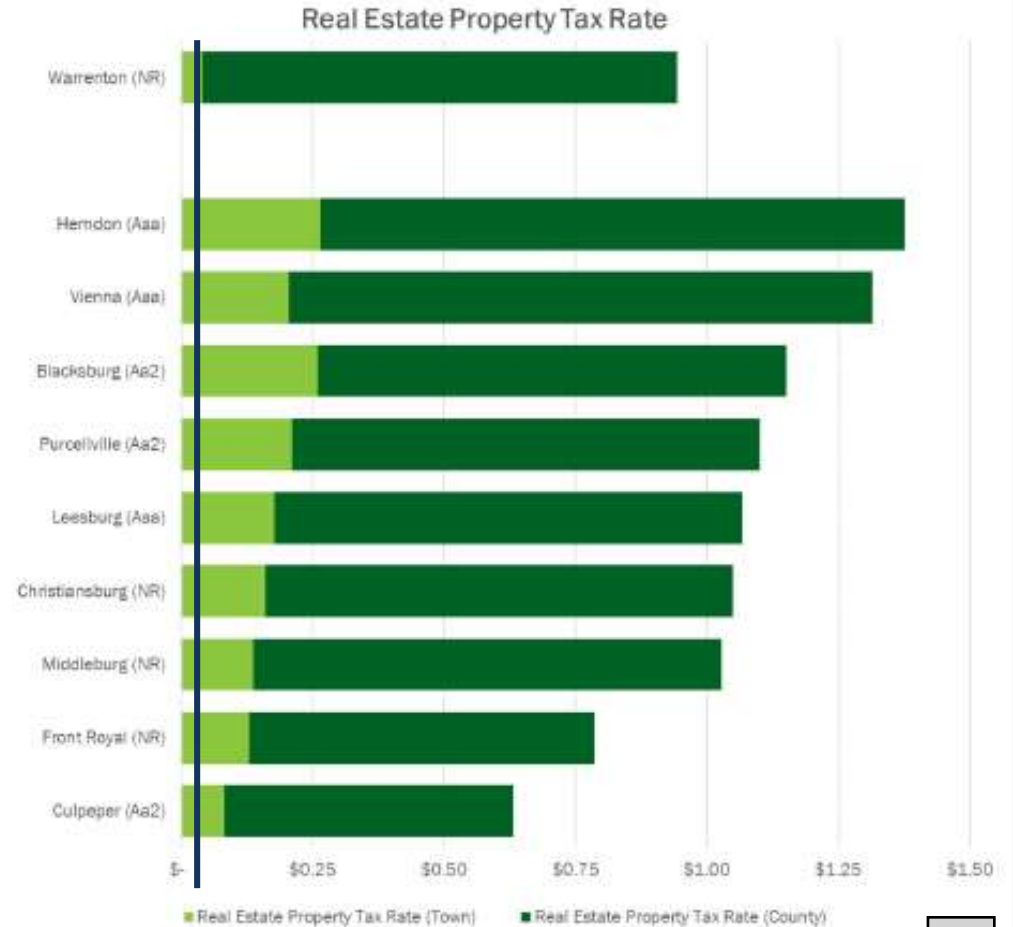
Assessed Value Per Capita

Locality	Assessed Value Per Capita
Warrenton (NR)	\$229,448
National Aa Median ⁽¹⁾	136,881
National Aaa Median ⁽¹⁾	267,080
Middleburg (NR)	528,187
Vienna (Aaa)	333,802
Herndon (Aaa)	217,560
Leesburg (Aaa)	216,051
Purcellville (Aa2)	193,667
Culpeper (Aa2)	154,800
Christiansburg (NR)	120,633
Front Royal (NR)	94,506
Blacksburg (Aa2)	79,567

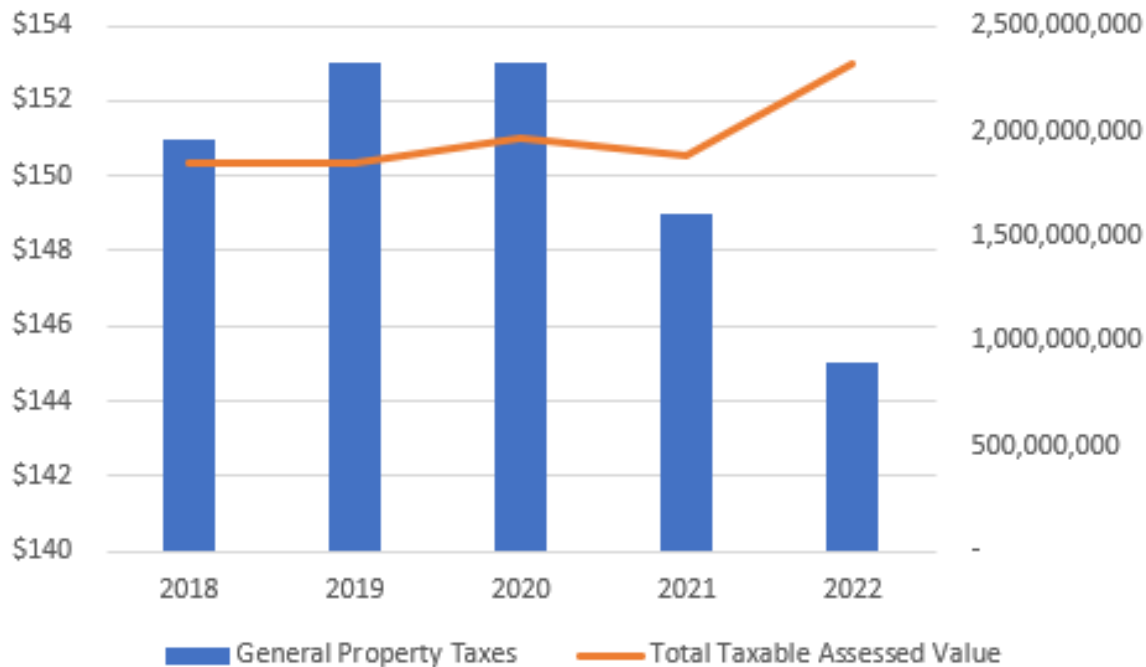


Real Estate Tax Rate Comparison

Locality	Real Estate Property Tax Rate (Town)	Real Estate Property Tax Rate (County)
Warrenton (NR)	\$0.0401	\$0.903
Herndon (Aaa)	0.265	1.110
Vienna (Aaa)	0.205	1.110
Blacksburg (Aa2)	0.260	0.890
Purcellville (Aa2)	0.210	0.890
Leesburg (Aaa)	0.1774	0.890
Christiansburg (NR)	0.160	0.890
Middleburg (NR)	0.1369	0.890
Front Royal (NR)	0.130	0.655
Culpeper (Aa2)	0.082	0.550



General Property Taxes Per Capita



Property Taxes Per Capita & Inflation Adjusted

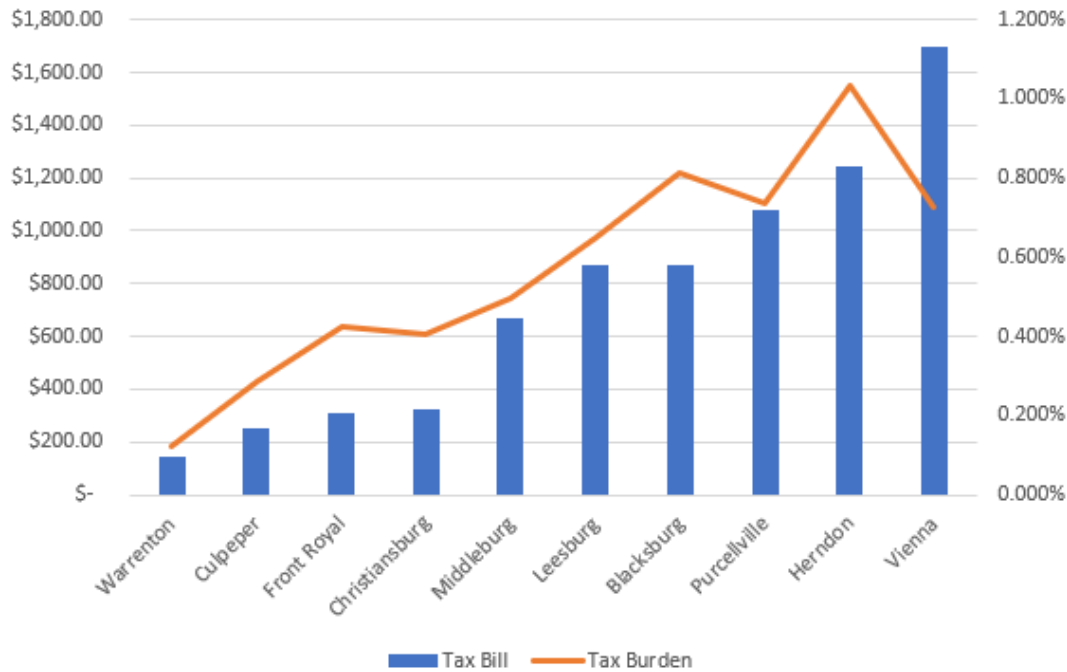
Fiscal Year	2018	2019	2020	2021	2022
Population	9,875	9,937	10,065	10,057	10,109
Inflation Multiplier	1.18x	1.16x	1.15x	1.09x	1.00x
General Property Taxes	\$ 151	\$ 153	\$ 153	\$ 149	\$ 145
Total Taxable Assessed Value	\$ 1,846,239,494	\$ 1,847,402,940	\$ 1,965,327,390	\$ 1,885,068,308	\$ 2,319,489,988

This chart shows that property taxes per capita adjusted for inflation have not kept pace with the taxable assessed value.



Tax Burden Comparison

Item B.



Locality	Median Home Value	Tax Rate	Tax Bill	Median Family Income	Tax Burden
Warrenton	\$ 363,000	\$ 0.0401	\$ 145.56	\$ 117,162	0.124%
Culpeper	\$ 304,100	\$ 0.0820	\$ 249.36	\$ 87,572	0.285%
Christiansburg	\$ 205,000	\$ 0.1600	\$ 328.00	\$ 80,855	0.406%
Front Royal	\$ 237,800	\$ 0.1300	\$ 309.14	\$ 72,982	0.424%
Middleburg	\$ 488,200	\$ 0.1369	\$ 668.35	\$ 135,250	0.494%
Leesburg	\$ 490,500	\$ 0.1774	\$ 870.15	\$ 133,660	0.651%
Vienna	\$ 827,800	\$ 0.2050	\$ 1,696.99	\$ 233,355	0.727%
Purcellville	\$ 514,900	\$ 0.2100	\$ 1,081.29	\$ 146,464	0.738%
Blacksburg	\$ 335,200	\$ 0.2600	\$ 871.52	\$ 107,279	0.812%
Herndon	\$ 470,200	\$ 0.2650	\$ 1,246.03	\$ 120,786	1.032%

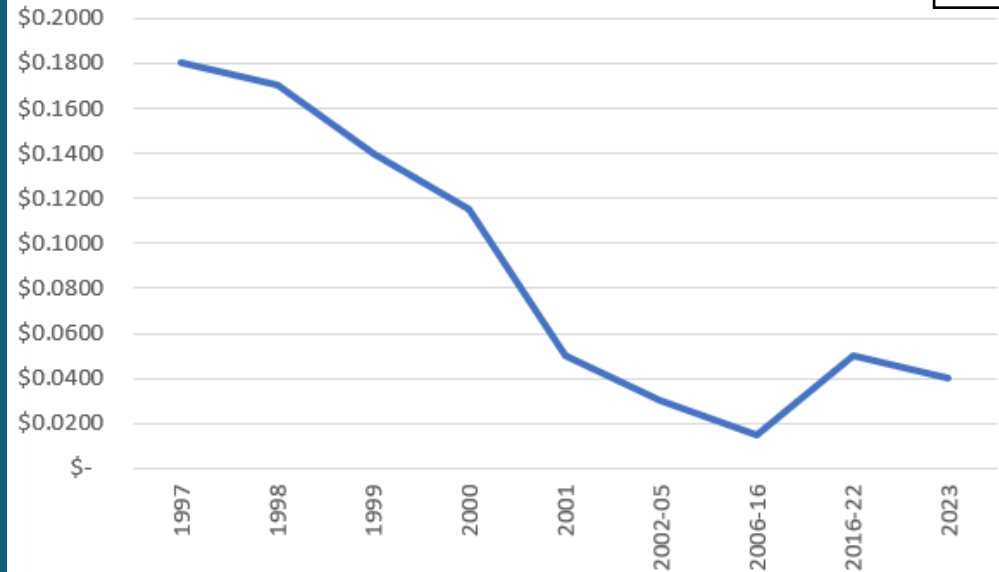


Tax Rate History

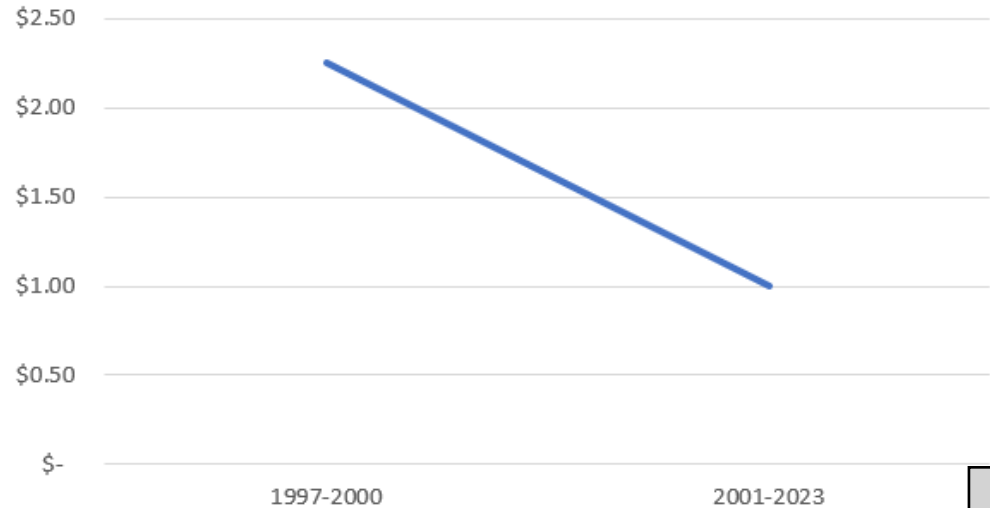
Fiscal Year(s)	Real Estate	Personal Property
1997	\$0.1800	\$ 2.25
1998	\$0.1700	\$ 2.25
1999	\$0.1400	\$ 2.25
2000	\$0.1150	\$ 2.25
2001	\$0.0500	\$ 1.00
2002-05	\$0.0300	\$ 1.00
2006-16	\$0.0150	\$ 1.00
2016-22	\$0.0500	\$ 1.00
2023	\$0.0401	\$ 1.00

Real Estate Tax Rate History

Item B.

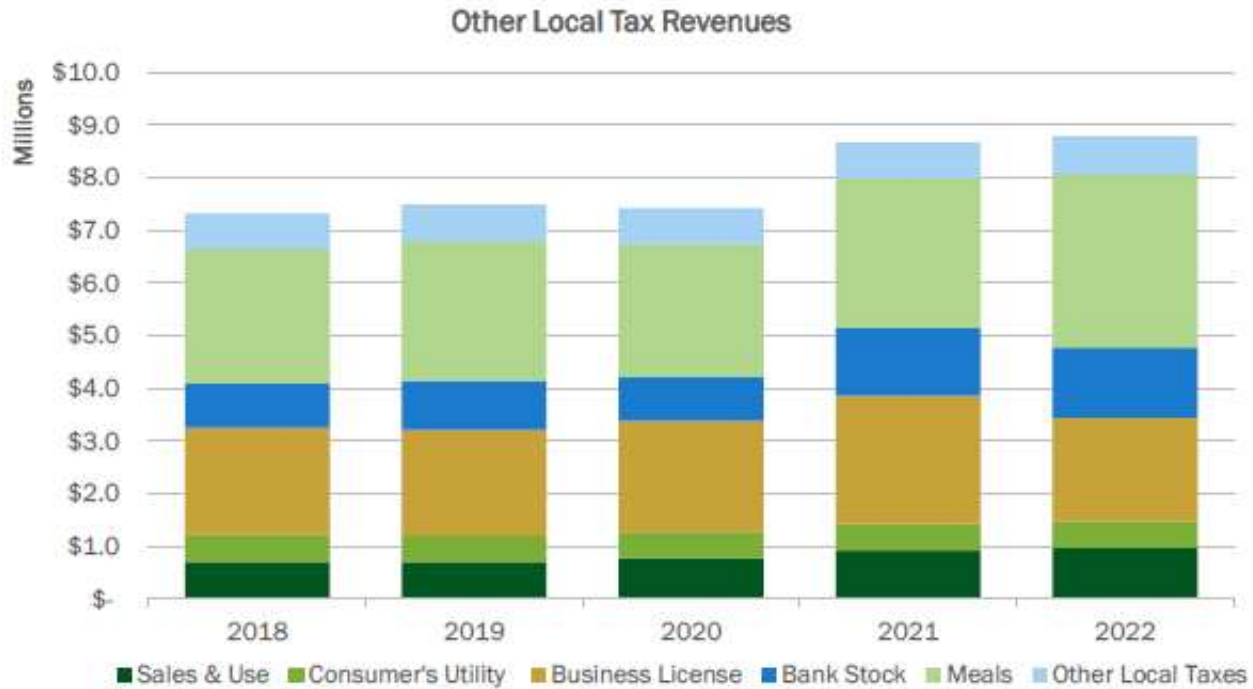


Personal Property Tax Rate History



Other Local Tax Revenues

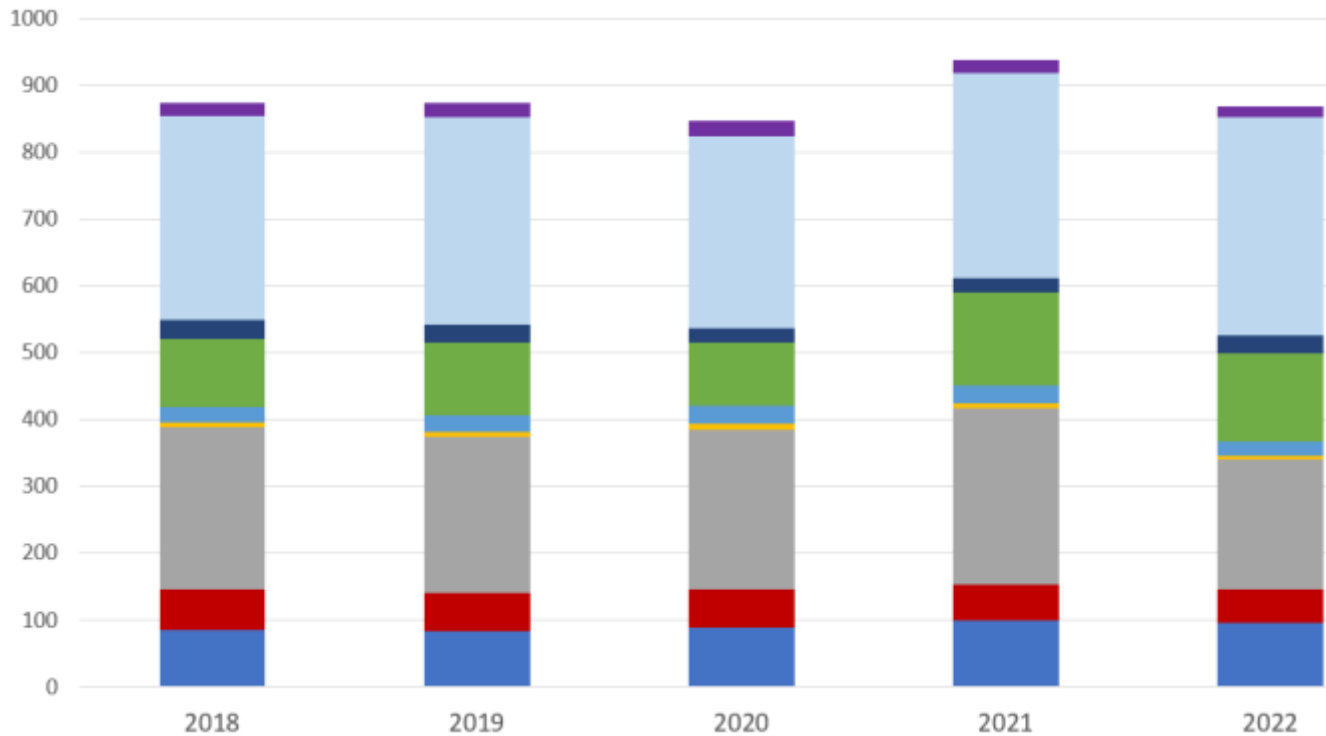
Item B.



Summary of Other Local Tax Revenues					
Other Local Taxes	2018	2019	2020	2021	2022
Sales & Use	\$ 709,036	\$ 709,173	\$ 781,649	\$ 925,159	\$ 978,837
Consumer's Utility	510,053	498,267	501,059	495,402	499,103
Business License	2,026,990	1,998,815	2,103,568	2,438,043	1,964,786
Consumption	64,166	70,212	68,131	61,994	60,354
Motor Vehicle	195,750	216,600	237,353	239,788	219,887
Bank Stock	849,887	932,498	830,298	1,292,086	1,330,962
Hotel and Motel	236,175	220,994	182,606	197,050	261,215
Meals	2,550,799	2,659,254	2,515,018	2,828,431	3,296,859
Cigarette	171,699	184,943	202,138	180,436	173,866
Total	\$ 7,314,555	\$ 7,490,756	\$ 7,421,820	\$ 8,658,389	\$ 8,785,800

Other Local Taxes Per Capita

Item B.



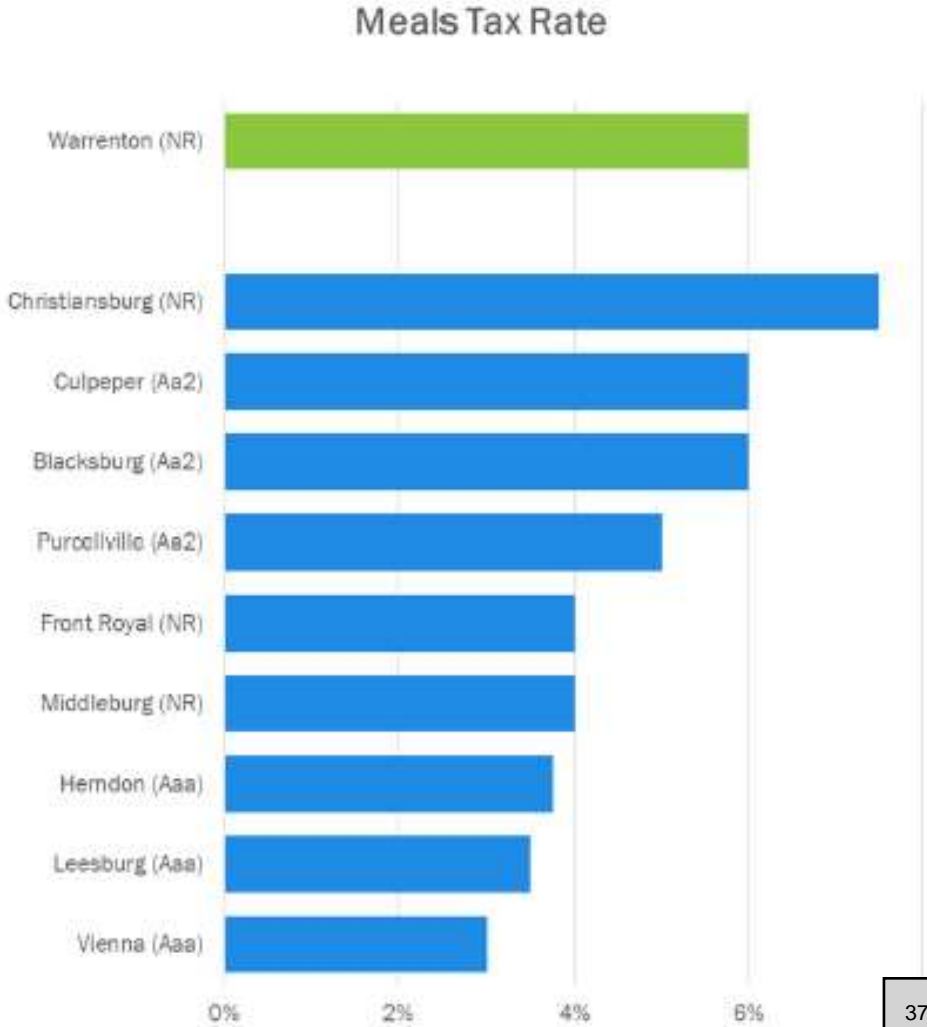
Other Local Tax Revenues Per Capita and Inflation Adjusted

Fiscal Year	2018	2019	2020	2021	2022
Population	9,875	9,937	10,065	10,057	10,109
Inflation Multiplier	1.18x	1.16x	1.15x	1.09x	1.00x
Sales & Use	\$ 85	\$ 83	\$ 89	\$ 100	\$ 97
Consumer's Utility	61	58	57	54	49
Business License	242	233	240	264	194
Consumption	8	8	8	7	6
Motor Vehicle	23	25	27	26	22
Bank Stock	102	109	95	140	132
Lodging	28	26	21	21	26
Meals	305	310	287	307	326
Cigarette	21	22	23	20	17
Total	\$ 875	\$ 874	\$ 847	\$ 939	\$ 869

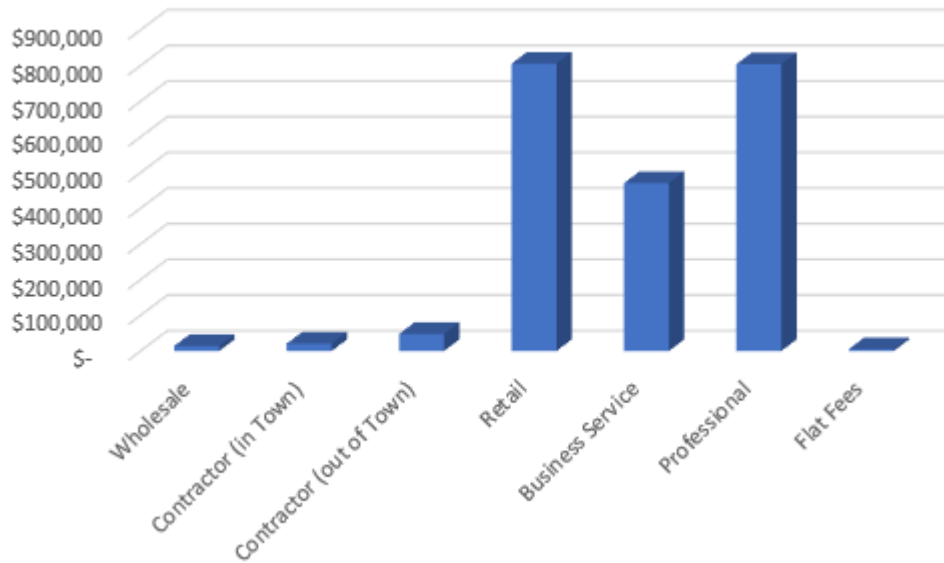


Meals Tax Rate Comparison

Locality	Meals Tax Rate (Town)
Warrenton (NR)	6.00%
Christiansburg (NR)	7.50%
Culpeper (Aa2)	6.00%
Blacksburg (Aa2)	6.00%
Purcellville (Aa2)	5.00%
Front Royal (NR)	4.00%
Middleburg (NR)	4.00%
Herndon (Aaa)	3.75%
Leesburg (Aaa)	3.50%
Vienna (Aaa)	3.00%



Business License (BPOL)



- Various rate categories depending on nature of business
- Data shown in table and chart is for license year 2023
- Top 3 categories are retail, business/personal services, and professional services

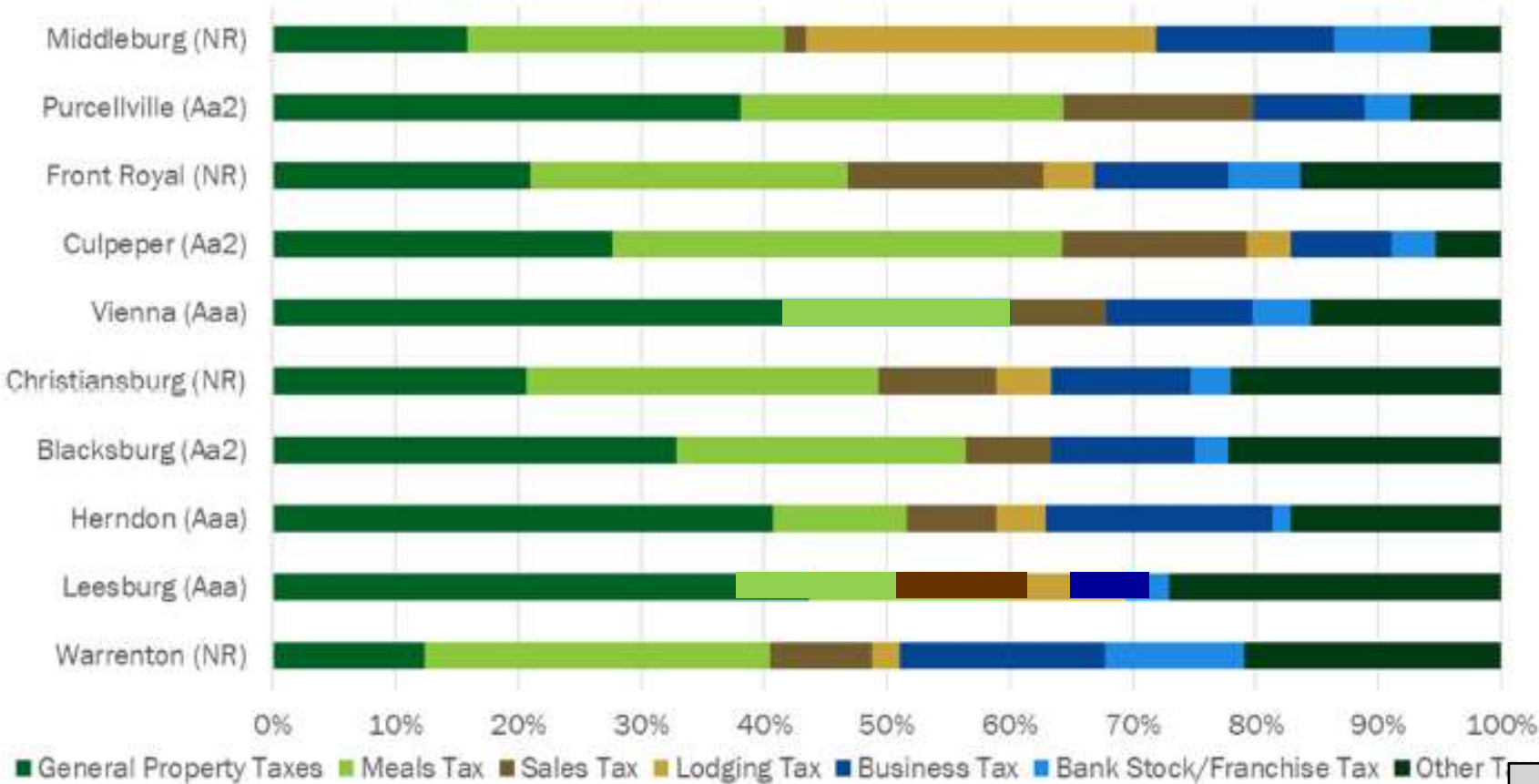
Business License Year 2023

Category	Tax Amount	Percentage
Wholesale	\$ 14,193	0.7%
Contractor (in Town)	20,588	0.9%
Contractor (out of Town)	47,804	2.2%
Retail	805,627	37.2%
Business Service	470,579	21.7%
Professional Services	804,222	37.1%
Flat Fees	5,330	0.2%
Total	\$ 2,168,343	



Other Local Taxes Comparison

Total Local Revenue Sources Composition



Suggested Modification

- Consider elimination of motor vehicle license fee to be offset by slight increase in personal property tax rate
- Annual license fee revenue = \$225,000

Debt Management and Capacity



Existing Debt

Summary of Outstanding Tax-Supported Debt

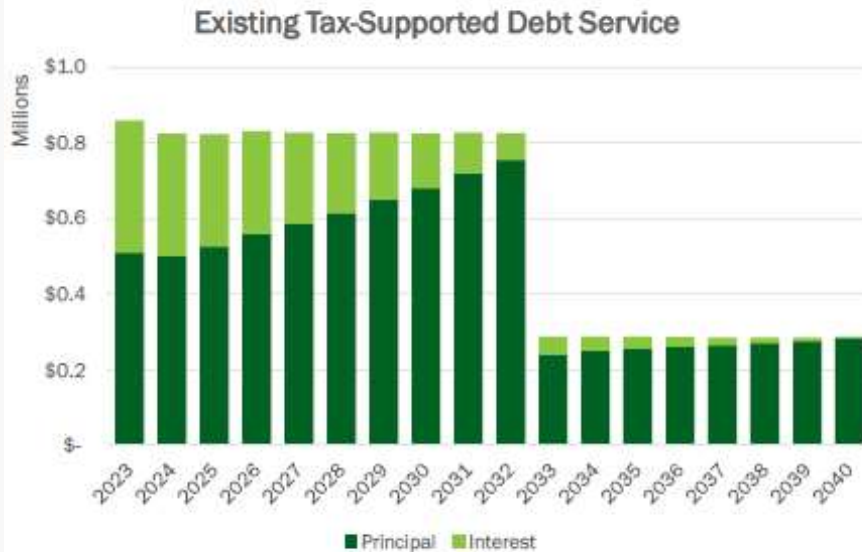
Series	Original Par	Par Outstanding		Interest Rate	Final Maturity (FY)
			6/30/22		
2017 Equipment Lease	\$330,209		\$34,545	2.040%	7/28/2022
G.O. Refunding Bond, Series 2021B	\$8,720,000		8,165,000	5.125% - 2.125%	10/1/2039
		Total	\$8,199,545		

Summary of Outstanding Utility-Supported Debt

Series	Original Par	Par Outstanding		Interest Rate	Final Maturity (FY)
			6/30/22		
G.O. Refunding Bond, Series 2021A	\$6,935,000		6,728,000	2.750%	1/15/2038
G.O. Refunding Bond, Series 2021B	\$3,975,000		3,855,000	5.125% - 2.125%	10/1/2039
G.O. Bond - Water & Sewer Financing 2022	\$5,150,000		5,150,000	2.900%	10/1/2039
		Total	\$15,733,000		

Debt refinanced in 2022 to achieve net present value savings of \$1.7 million

Existing Tax-Supported Debt Service



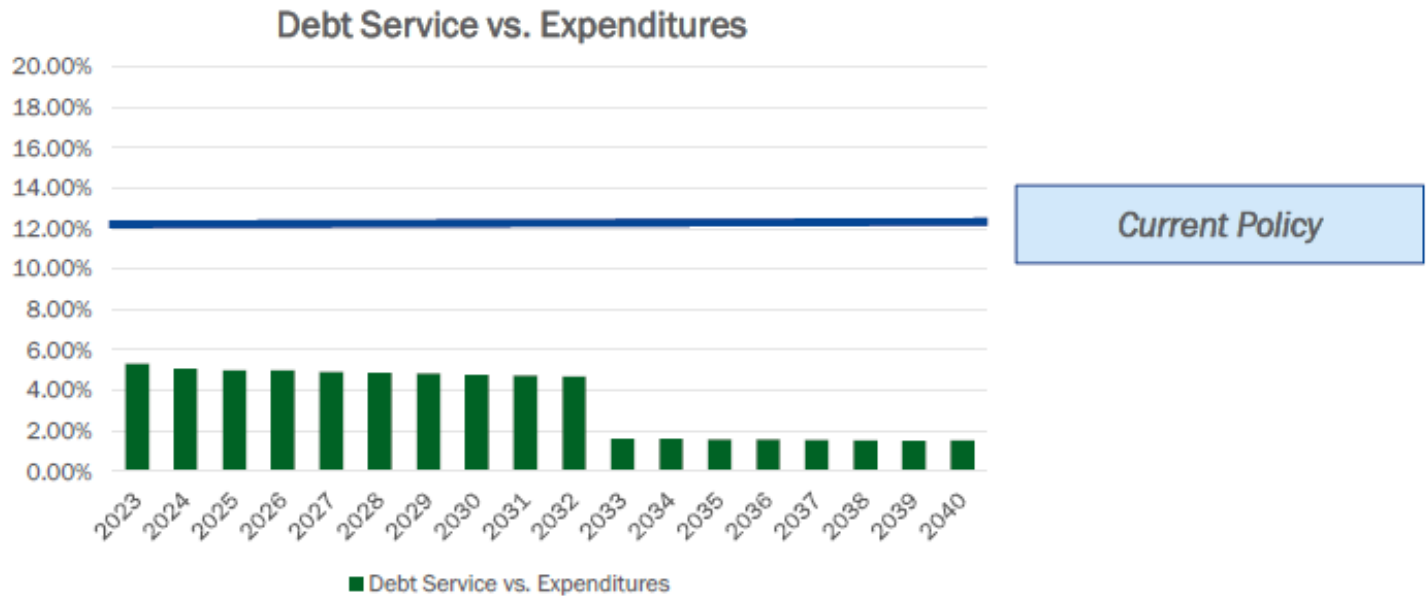
Existing Tax-Supported Debt Service				
Fiscal Year	Principal	Interest	Total	Payout Ratio
2023	509,545	349,573	859,119	6.2%
2024	500,000	324,238	824,238	12.3%
2025	525,000	297,972	822,972	18.7%
2026	560,000	270,169	830,169	25.5%
2027	585,000	240,828	825,828	32.7%
2028	615,000	210,078	825,078	40.2%
2029	650,000	177,663	827,663	48.1%
2030	680,000	143,581	823,581	56.4%
2031	720,000	107,706	827,706	65.2%
2032	755,000	69,909	824,909	74.4%
2033	240,000	46,063	286,063	77.3%
2034	250,000	37,656	287,656	80.4%
2035	255,000	31,041	286,041	83.5%
2036	260,000	25,569	285,569	86.6%
2037	265,000	20,106	285,106	89.9%
2038	270,000	14,653	284,653	93.2%
2039	275,000	8,978	283,978	96.5%
2040	285,000	3,028	288,028	100.0%
Total	\$8,199,545	\$2,378,811	\$ 10,578,356	

Debt Management Policies

- The Town **will not fund current operations from the proceeds of borrowed funds** and will confine long-term borrowing and capital leases to capital improvements, projects, or equipment that cannot be financed from current financial resources.
- The Town will, when financing capital improvements or other projects or equipment by issuing bonds or entering into capital leases, **repay the debt within a period not to exceed the expected useful life of the project or equipment.** Debt related to equipment ancillary to a construction project may be amortized over a period less than that of the primary project.
- The Town will **annually calculate target debt ratios for direct, non-revenue based debt (“Tax Supported Debt”)** that is dependent on the general fund for the payment of debt service. So long as payments from the general fund to the enterprise fund are not necessary to make up shortfalls in the enterprise fund, enterprise fund debt will not be included in the calculation of the debt ratios. The debt ratios are outlined on the following slides.
- **Suggested policy addition: Rates for Water and Sewer services and Stormwater Management shall be set to ensure all enterprise fund debt service is paid by the respective enterprise fund.**

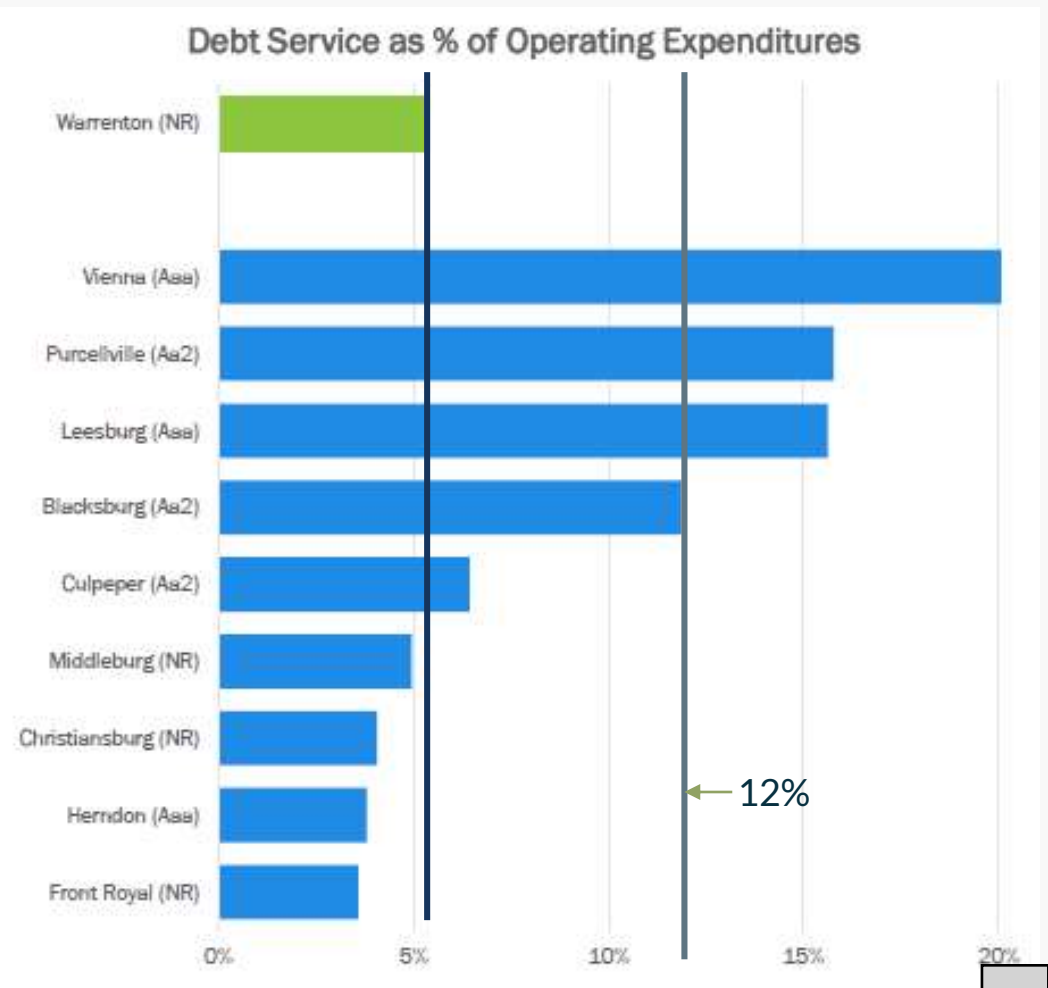
Debt Service vs. Expenditures

Tax Supported debt service expenditures as a percentage of general fund expenditures should not exceed 12%.



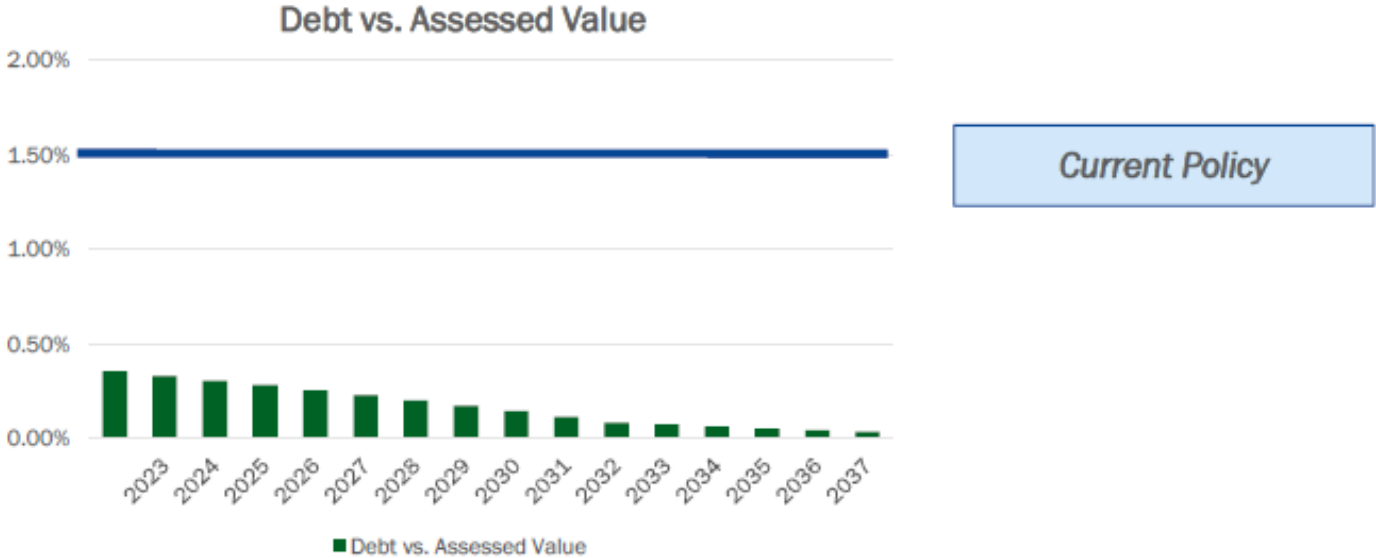
Debt Service vs. Expenditure Comparison

Locality	Debt Service as % of Operating Expenditures
Warrenton (NR)	5.3%
Vienna (Aaa)	20.9%
Purcellville (Aa2)	15.8%
Leesburg (Aaa)	15.6%
Blacksburg (Aa2)	11.9%
Culpeper (Aa2)	6.4%
Middleburg (NR)	5.0%
Christiansburg (NR)	4.1%
Herndon (Aaa)	3.8%
Front Royal (NR)	3.6%



Debt vs. Assessed Value

Tax Supported debt of the town shall not exceed 1.5% of the total assessed value of taxable property in the Town.

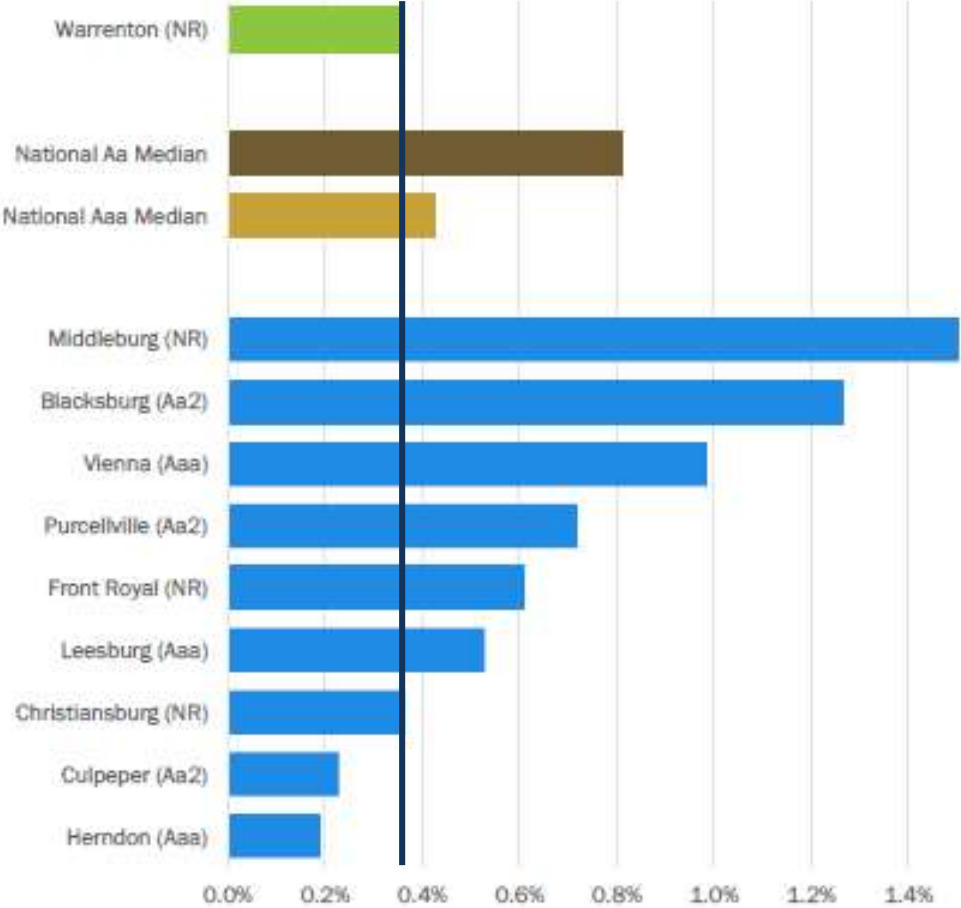


Debt vs. Assessed Value Comparison

Locality	Outstanding Debt as % of Assessed Value
Warrenton (NR)	0.4%
National Aa Median ⁽¹⁾	0.8%
National Aaa Median ⁽¹⁾	0.4%
Middleburg (NR)	2.3%
Blacksburg (Aa2)	1.3%
Vienna (Aaa)	1.0%
Purcellville (Aa2)	0.7%
Front Royal (NR)	0.6%
Leesburg (Aaa)	0.5%
Christiansburg (NR)	0.4%
Culpeper (Aa2)	0.2%
Herndon (Aaa)	0.2%



Outstanding Debt as % of Assessed Value



Enterprise Funds



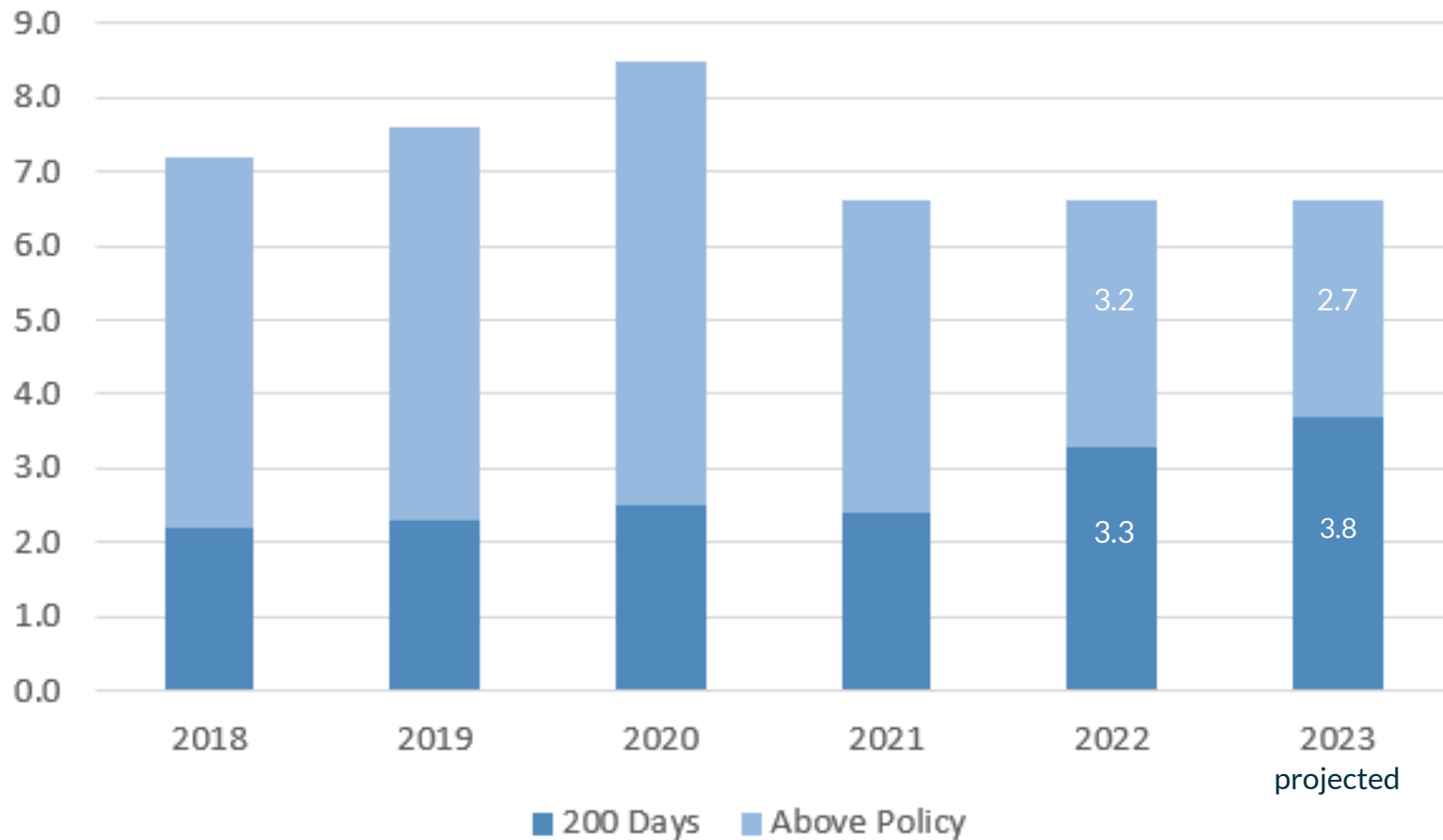
Water and Sewer Fund

- Separate fund, supported by the fee structure – *not tax-supported*
- “Mini” Water and Sewer Rate study underway
 - Will have separate work session to review results
 - New factors:
 - Realignment/update of Capital Improvement Program
 - Earlier issuance of debt
 - ARPA funded positions to transition
 - Classification and compensation adjustments
 - Contingency payment for WWTP

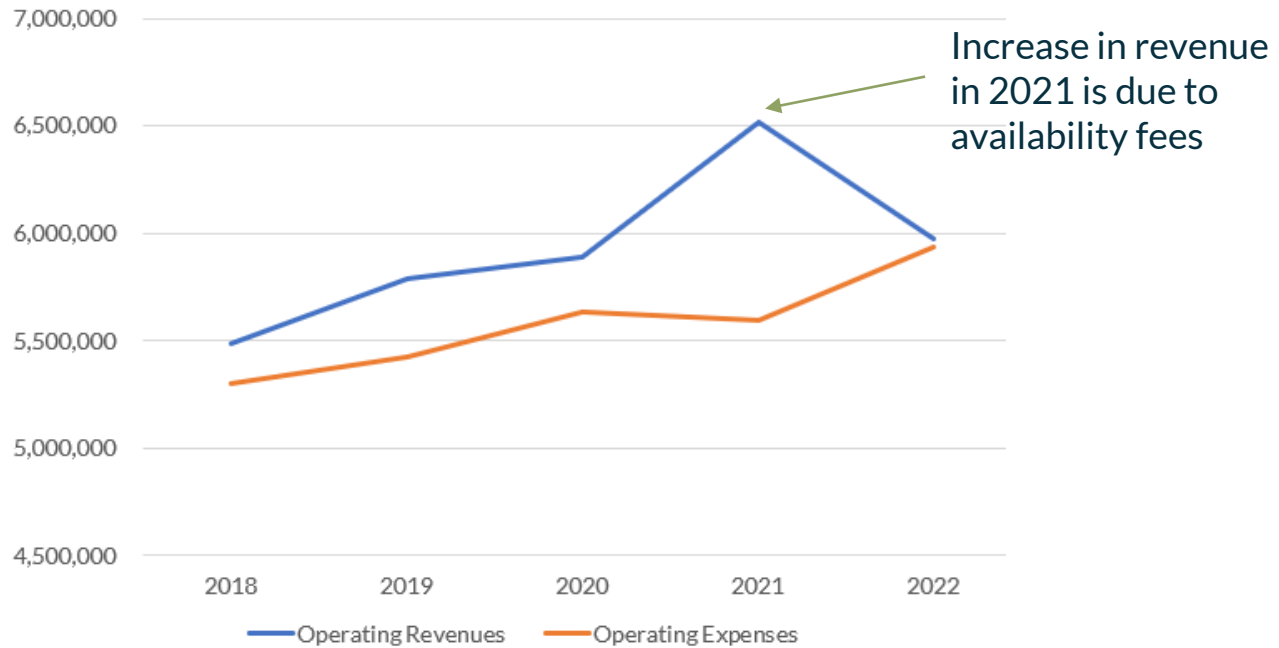
Cash Balance Policy

Provides that the Town maintain a minimum unrestricted cash balance equal to 200 days of operating expenses.

Item B.



Historical Financials



Item B.

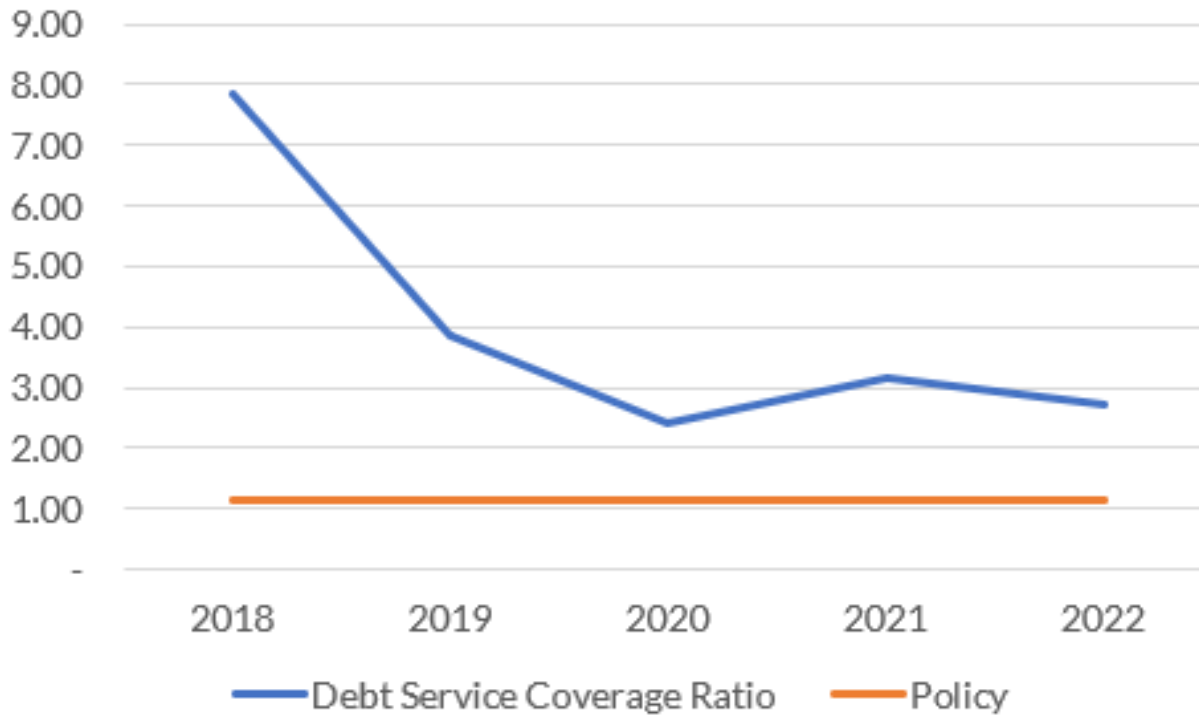
Fiscal Year	2018	2019	2020	2021	2022
Operating Revenues	5,485,203	5,785,979	5,887,602	6,512,552	5,970,588
Operating Expenses	5,302,082	5,426,353	5,634,644	5,597,855	5,931,527
Non-operating revenues(expenses)	(19,700)	92,370	(45,983)	(148,747)	(159,169)
Change in net position	163,421	451,996	206,975	765,950	(120,108)

Net position

Beginning	24,012,637	24,176,058	24,628,054	24,835,029	25,600,979
Ending	24,176,058	24,628,054	24,835,029	25,600,979	25,480,871
Net investment in capital assets	17,336,839	18,259,451	17,364,417	19,595,398	19,194,441

Debt Service Coverage

Item B.



Fiscal Year	2018	2019	2020	2021	2022
Operating Revenues	5,788,574	6,278,422	6,234,707	6,746,686	6,249,509
Operating Expenses	4,107,213	4,266,934	4,504,090	4,467,687	4,798,238
Net operating income	1,681,361	2,011,488	1,730,617	2,278,999	1,451,271
Debt Service	213,995	519,516	718,683	720,657	528,978
Debt Service Coverage Ratio	7.86	3.87	2.41	3.16	2.74

Stormwater Fund

- Discharges from municipal separate storm sewer systems (MS4) are regulated under
 - **Virginia Stormwater Management Act**
 - **Virginia Stormwater Management Program** permit regulations
 - **Clean Water Act** as point source discharges
- Separate fund established in FY22
- Self-supporting, fee-based program
- Billed twice a year on the real estate tax bill
- Operating costs covered, generates surplus to partially cash fund some of the necessary projects to meet the permit requirements

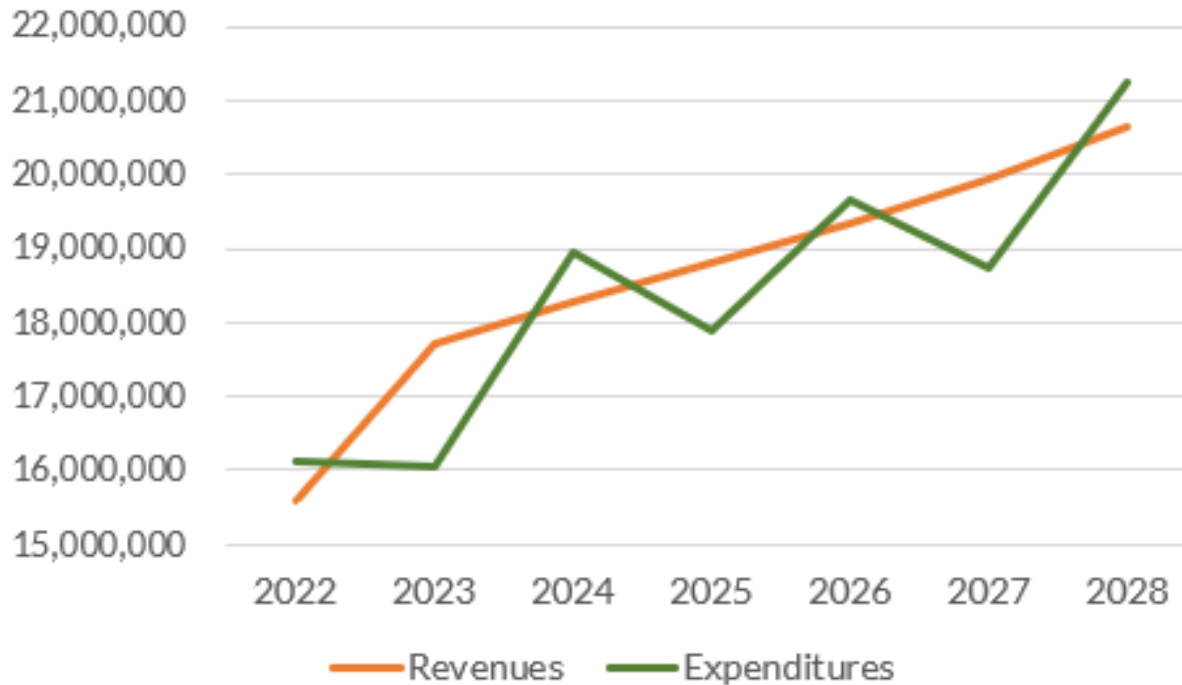
5 Year Financial Projection



Assumptions

- Annual revenue and expenditure growth averaging 3%
 - Historical review showed average of 2.6% for revenue and 4.0% for expenditures
- Implementation of Capital Improvement Program and commitment to asset replacement schedule (cash-funded)
- Debt issued to fund major transportation projects to manage cash flow needs
 - Transportation projects are generational projects that will benefit residents of the Town long-term
 - Borrowing for those projects will ease the cash-flow burden on the General Fund
 - Would maintain compliance with debt-related policies

5-Year Projection (including capital and debt service)

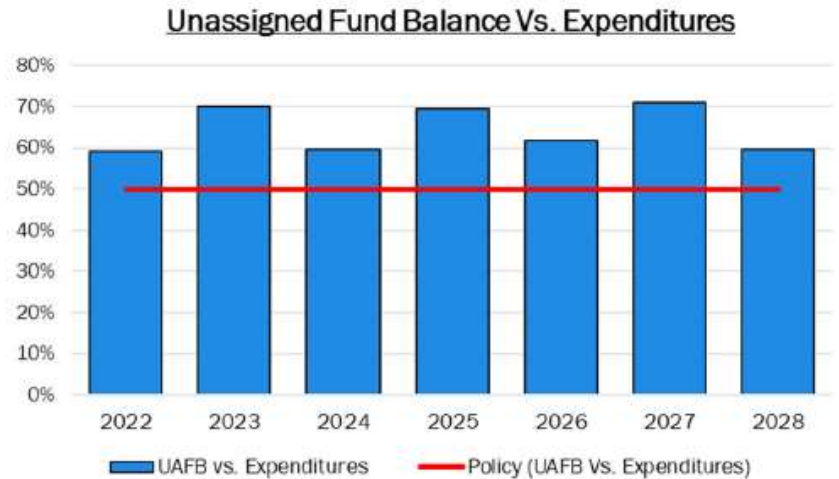
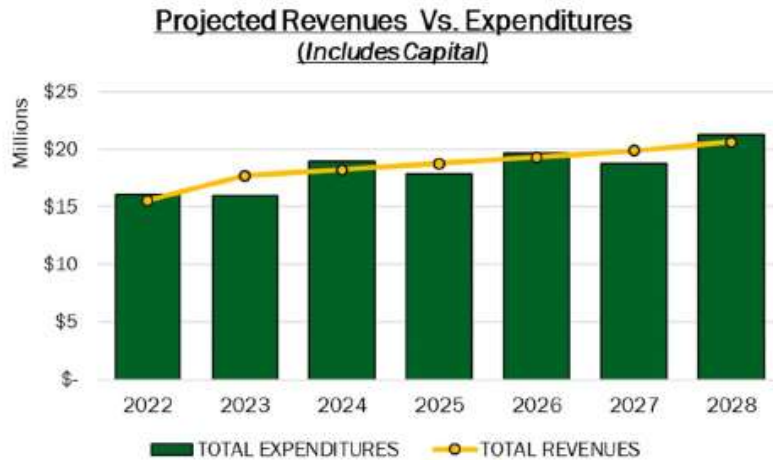


All expenditures

Fiscal Year	2022	2023	2024	2025	2026	2027	2028
Revenues	15,588,490	17,727,497	18,278,254	18,790,166	19,351,162	19,923,130	20,655,295
Expenditure	16,129,651	16,036,206	18,945,035	17,876,569	19,656,813	18,742,422	21,253,789
Net change	(541,161)	1,691,291	(666,781)	913,597	(305,651)	1,180,708	(598,494)

Strategic Debt Issuance to Support Cash Flow Item B.

- Strategically issuing debt provides the Town with additional cash-flow which maintains reserve levels above the Policy Level.



	2022	2023	2024	2025	2026	2027	2028	
	Audited	Projected	Projected	Projected	Projected	Projected	Projected	
A	Total Revenues	\$ 15,588,490	\$ 17,727,497	\$ 18,278,254	\$ 18,790,166	\$ 19,351,162	\$ 19,923,130	\$ 20,655,295
B	Total Expenditures	16,129,651	16,036,206	18,945,035	17,876,569	19,656,813	18,742,422	21,253,789
C = A - B	Net Operating Result	(541,161)	1,691,291	(666,781)	913,597	(305,651)	1,180,708	(598,494)
D	Unassigned Fund Balance	9,542,190	11,233,481	11,273,721	12,402,590	12,119,887	13,300,594	12,702,100
E = D / B	Unassigned Fund Balance vs. Expenditures	59%	70%	60%	69%	62%	71%	60%

Debt Service vs. Expenditures



Debt vs. Assessed Value



	2023 Projected	2024 Projected	2025 Projected	2026 Projected	2027 Projected	2028 Projected
Existing Debt						
Principal	\$ 509,545	\$ 500,000	\$ 525,000	\$ 560,000	\$ 585,000	\$ 615,000
Interest	349,573	324,238	297,972	270,169	240,828	210,078
Proposed Debt						
Principal	-	-	17,288	21,343	57,971	197,948
Interest	-	-	28,582	32,993	90,717	314,451
Total	\$ 859,119	\$ 824,238	\$ 868,842	\$ 884,506	\$ 974,516	\$ 1,337,476
Debt Service vs. Expenditures ⁽¹⁾	5.22%	4.91%	5.08%	5.07%	5.47%	7.36%
Debt vs. Assessed Value ⁽²⁾	0.33%	0.33%	0.31%	0.33%	0.49%	0.57%

Note: Preliminary results are estimates, and subject to change. Actual results may vary substantially from these estimates.

(1) For planning/conservative purposes, Expenditures are based upon FY 2022 Actuals (\$16,129,651) and projected to grow 1% annually.

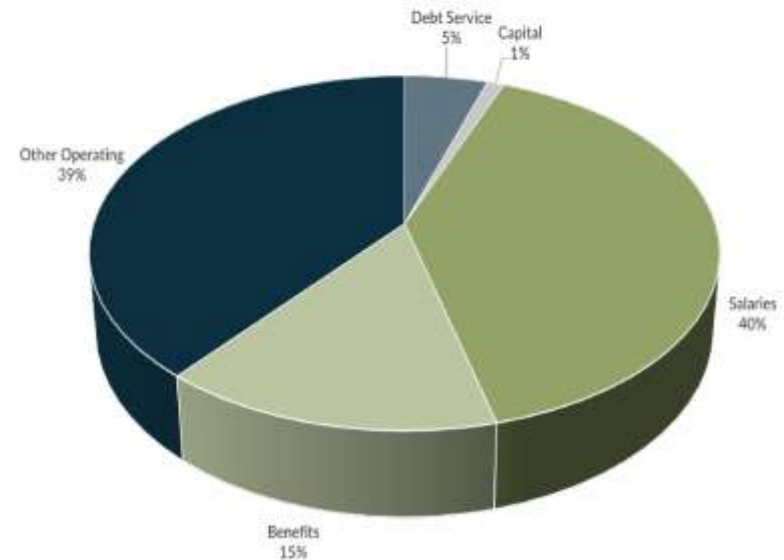
(2) Assessed Values are based upon FY 2022 Actual Assessed Value (\$2,319,489,988) and projected to grow 1% annually.



General Fund Summary

- The general fund has the capacity to provide some cash funding for CIP and CARP
 - Recommend capital investment policy of 10% of annual revenues to maintain a balance of some cash funding
- Sufficient funding available to address Human Capital needs
 - The Town provides services, requires investment in personnel
 - Personnel expenses made up 55% of the total FY23 budget
 - Typical split 80/20 between General Fund and Water and Sewer
 - Classification and compensation adjustments have not been made since 2015
- The Town's main challenge will be increasing revenues to match inflationary growth in recurring operating expenditures.

FY23 EXPENDITURES BY CATEGORY





Town of Warrenton, Virginia

Water & Sewer Discussion Materials



May 9, 2023

Overview



- Davenport & Company LLC (“Davenport”) serves as Financial Advisor to the Town of Warrenton (the “Town”).

- In Spring of 2022, Davenport, in concert with NewGen Strategies & Solutions (“NewGen”), presented a multi-year rate plan regarding the Water & Sewer Utility System (the “Utility System”) for the Town’s consideration.

- The Town is currently in the process of adopting its FY 2024 Operating and Capital Budget for the self-supporting Utility System.
 - This would represent the second year of rate increases previously introduced to Town Council.

- Key underlying assumptions related to the Utility System’s financial planning have shifted over the past year.

- Davenport was asked to assist NewGen in the development of an updated plan with a specific focus on capital funding and financial “best-practices”.

Goals & Objectives



1. Present the historical financial results of the Utility System;
2. Present the Utility System’s current debt profile;
3. Review the previously presented multi-year rate plan and underlying assumptions;
4. Outline key changes in assumptions for the current update of the multi-year rate plan; and
5. Introduce an updated multi-year rate plan that maintains the self-supporting nature of the Utility System and projects financial metrics at or above industry-wide “best-practice” levels.

Utility System Observations

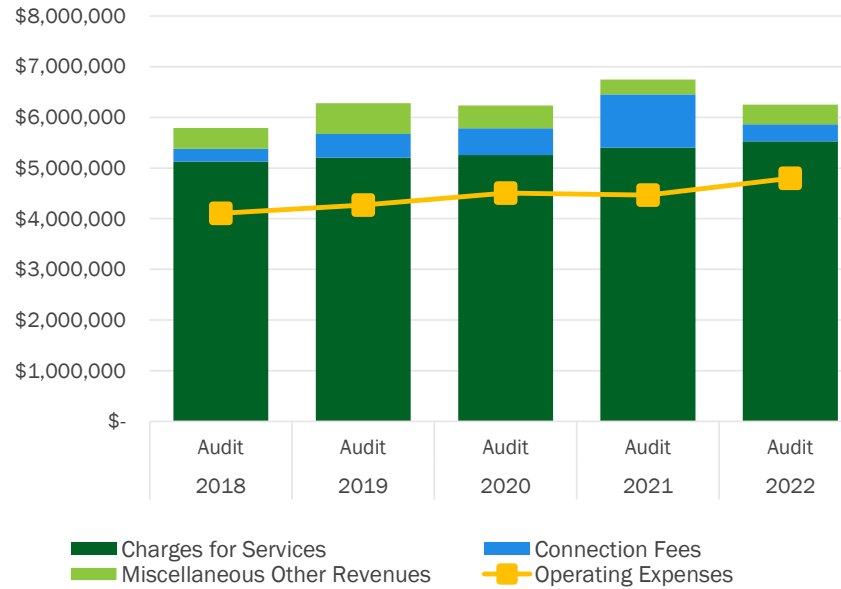


- The Town’s Utility System has historically generated solid cash flows (i.e., debt service coverage) and maintained healthy reserves (i.e., days cash on hand).
- Charges for Service (i.e., Operating Revenues) have grown annually by roughly 1.5% over the last five years.
- Operating Expenditures have grown annually by roughly 3.2% over the last five years.
- The imbalance between revenue and expenditure growth has slightly decreased the financial strength and resiliency of the Utility System.
 - This is evidenced by a declining Debt Service Coverage Ratio. In FY 2022, the Utility System’s Debt Service Coverage Ratio was 2.20x, the lowest level of the prior five years. (Note: Typically, 1.50x is considered a “best-practice”, and 1.20x should be considered a minimum threshold).
- Maintaining a self-supporting utility system is critical for several reasons, including the fact that it insulates the General Fund from the additional burden of needing to cover utility-related costs.

Historical Revenues & Operating Expenditures



Historical Revenues & Expenditures

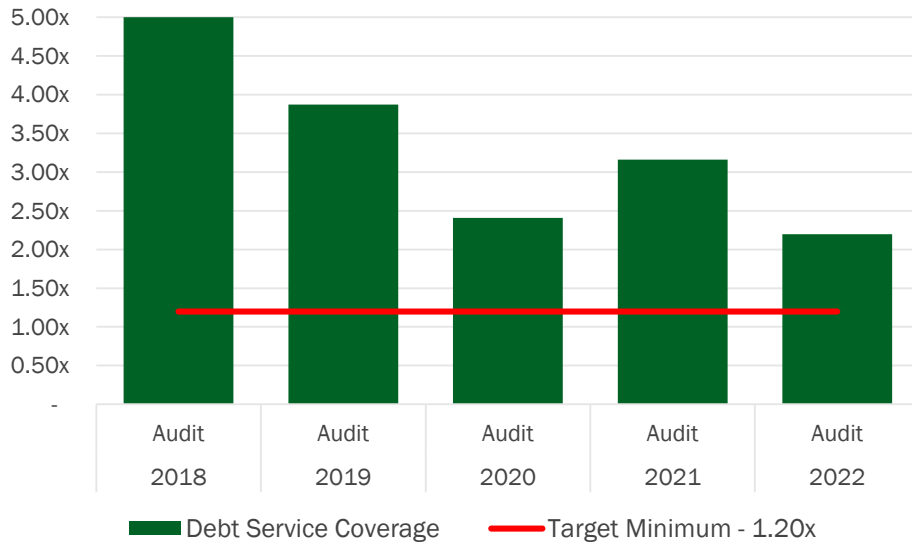


Town of Warrenton, Virginia		2018	2019	2020	2021	2022	
Utility System Revenues & Operating Exp.		Audit	Audit	Audit	Audit	Audit	
1	Revenues						
2	Charges for Services	\$ 5,125,028	\$ 5,205,517	\$ 5,257,620	\$ 5,401,565	\$ 5,524,892	
3	Connection Fees	252,975	467,187	526,725	1,050,300	336,545	
4	Miscellaneous Other Revenues	410,571	605,718	450,362	294,821	388,072	5-Yr Avg.
5	Total Revenues	\$ 5,788,574	\$ 6,278,422	\$ 6,234,707	\$ 6,746,686	\$ 6,249,509	1.5%
6	<i>Growth</i>	<i>N/A</i>	<i>8.5%</i>	<i>-0.7%</i>	<i>8.2%</i>	<i>-7.4%</i>	
7	Operating Expenses	\$ 4,107,605	\$ 4,266,934	\$ 4,504,090	\$ 4,467,687	\$ 4,798,238	3.2%
8	<i>Growth</i>	<i>N/A</i>	<i>3.9%</i>	<i>5.6%</i>	<i>-0.8%</i>	<i>7.4%</i>	
9	Net Revenue Available for Debt Service	\$ 1,680,969	\$ 2,011,488	\$ 1,730,617	\$ 2,278,999	\$ 1,451,271	

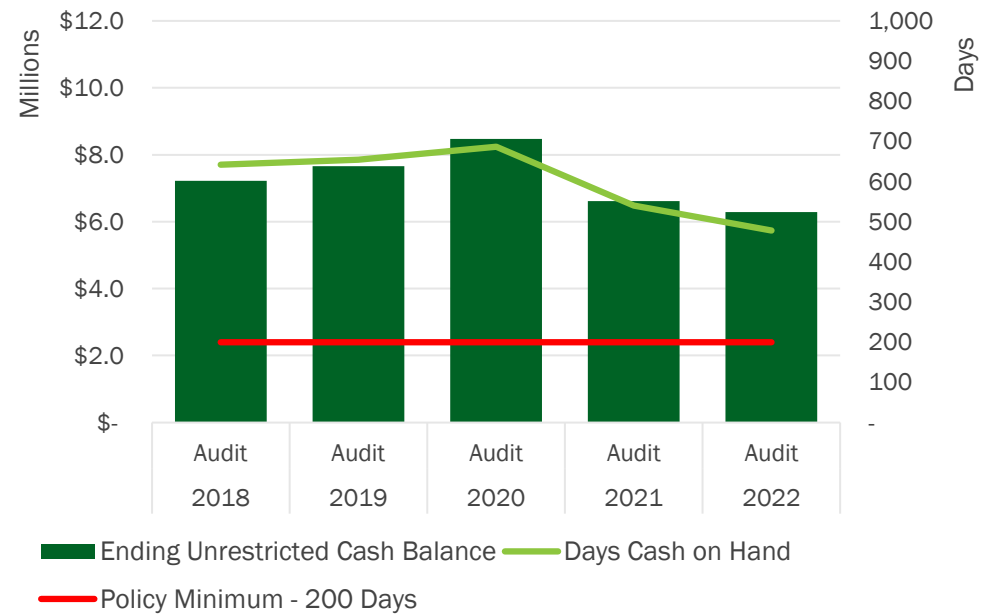
Selected Historical Financial Metrics



Debt Service Coverage

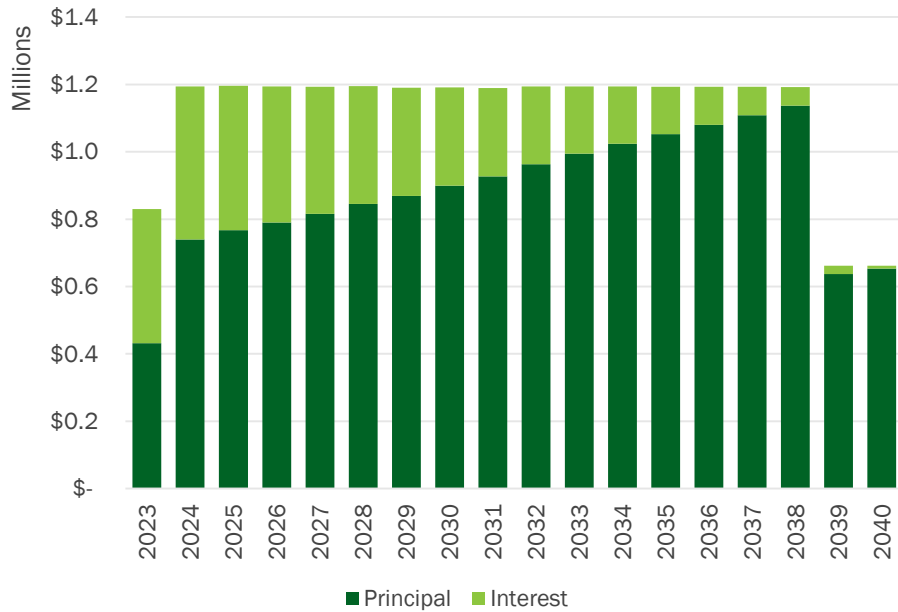


Cash Balance



Select Water & Sewer Utility System Financial Metrics	2018 Audit	2019 Audit	2020 Audit	2021 Audit	2022 Audit
1 Debt Service Coverage	11.65x	3.87x	2.41x	3.16x	2.20x
2 Target Minimum - 1.20x	1.20x	1.20x	1.20x	1.20x	1.20x
3					
4 Ending Unrestricted Cash Balance	\$ 7,220,020	\$ 7,653,103	\$ 8,473,309	\$ 6,612,579	\$ 6,287,203
5 Days Cash on Hand	642	655	687	540	478
6 Policy Minimum - 200 Days	200	200	200	200	200

Existing Utility System Debt Profile



- The Town issued the 2022 G.O. New Money Bond in the Fall of 2022 in the amount of \$5,150,000.
- The Interest Rate on the bond is fixed for the term of the bond at **2.90%**.
- The Town’s debt service will increase in FY 2024 as full principal and interest payments begin on the 2022 G.O. New Money Bond.

Total Debt Service

Fiscal Year	Principal	Interest	Total
Total	\$15,733,000	\$4,314,855	\$20,047,855
2023	432,000	398,279	830,279
2024	740,000	453,627	1,193,627
2025	767,000	428,999	1,195,999
2026	790,000	403,510	1,193,510
2027	816,000	377,130	1,193,130
2028	845,000	349,773	1,194,773
2029	869,000	321,497	1,190,497
2030	899,000	292,303	1,191,303
2031	927,000	262,033	1,189,033
2032	963,000	230,602	1,193,602
2033	994,000	199,539	1,193,539
2034	1,024,000	169,822	1,193,822
2035	1,052,000	141,308	1,193,308
2036	1,080,000	113,252	1,193,252
2037	1,108,000	84,558	1,192,558
2038	1,137,000	55,225	1,192,225
2039	637,000	24,996	661,996
2040	653,000	8,403	661,403

Principal Outstanding as of 6/30/2022

2021 VRA Refunding	\$3,855,000
2021A GO Refunding	6,728,000
2022 G.O. New Money	5,150,000
Total Principal Outstanding	\$15,733,000

Multi-Year Financial Plan - Observations



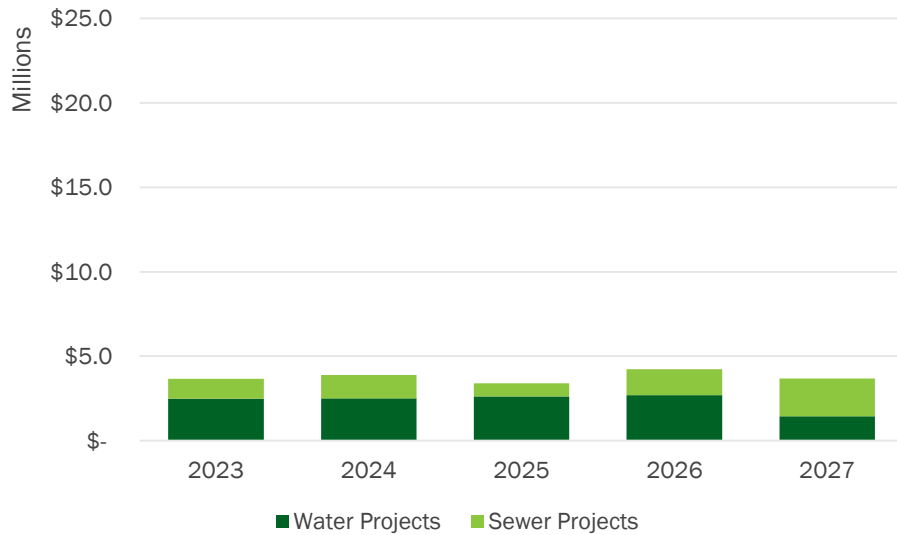
- Over the last year, inflation has caused the prices of most goods and services to increase materially.
- Energy and other natural resource costs have seen significant price increases due to global pressures.
- This creates further increasing pressures on the Utility System's Operating Expenditures.
 - Budgeted Operating Expenditure growth was 28% in FY 2023 vs. FY 2022 Actuals.
 - Budgeted Operating Expenditure growth is approximately 9% in FY 2024 vs the FY 2023 Budget.
- Capital projects undertaken by local governments have also experienced significant increases due to supply chain issues and the significant amount of federal monies injected into the economy.
- A combination of the factors above as well as a back log of replacement and renewal projects have resulted in a CIP that is roughly three times the size of the CIP identified this time last year.

Projected Capital Needs (Presented April, 2022)

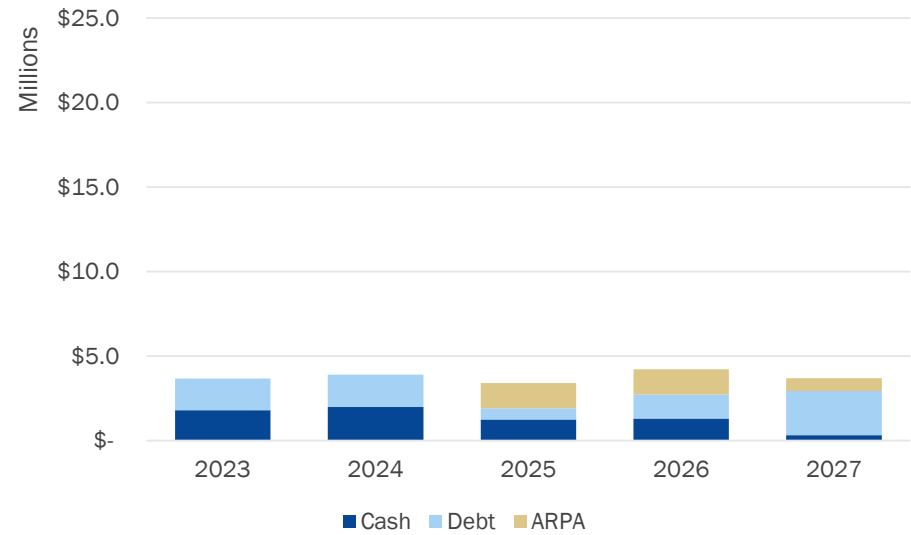


- The Town is contemplating funding a Capital Improvement Plan of approximately \$18-19 Million over the next 5 years, as reflected below.
 - Approximately 45% is anticipated to be funded with debt (\$8.5 Million), 35% from cash (\$6.6 Million), and 20% from ARPA (\$3.8 Million).

Uses of Funds



Sources of Funds

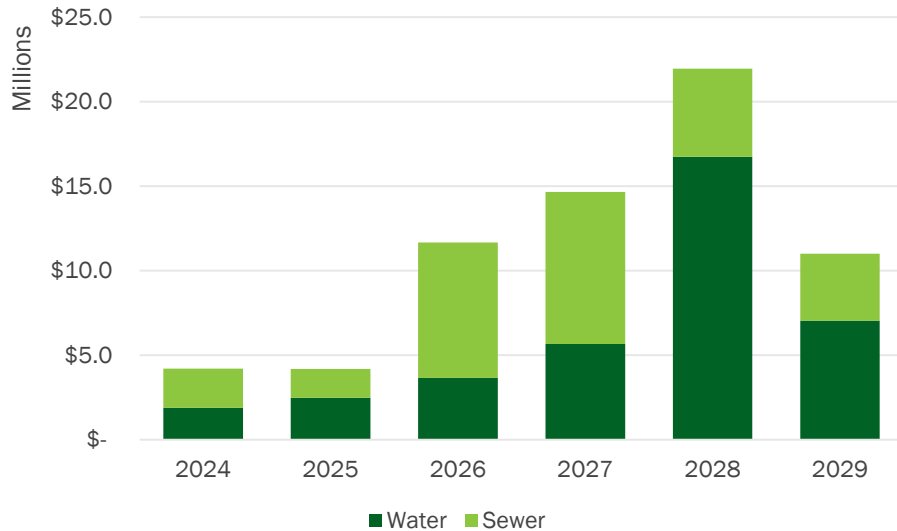


Projected Capital Needs (As of May, 2023)

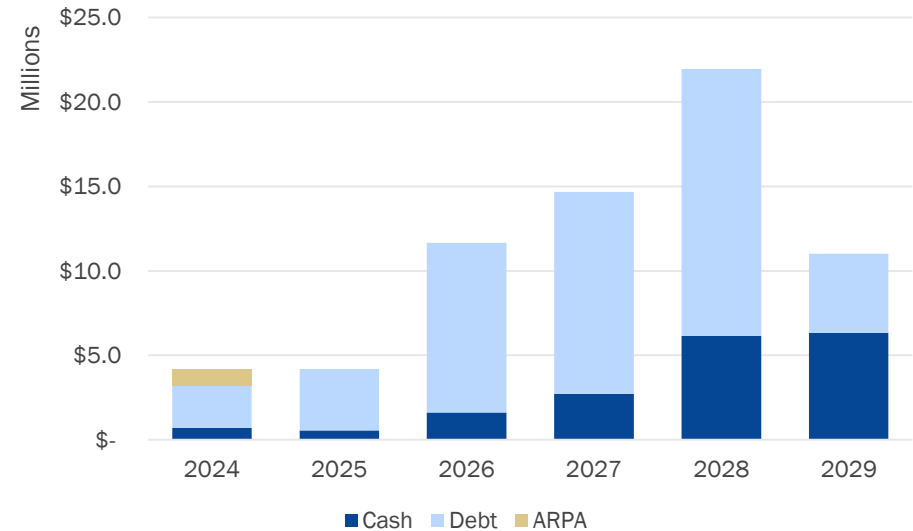


- The Town is contemplating funding a Capital Improvement Plan of approximately **\$67.7 Million** over the next 6 years, as reflected below.
 - Approximately 72% is anticipated to be funded with debt (\$48.6 Million), 27% from cash (\$18.1 Million), and 1% from ARPA (\$1.0 Million).

Uses of Funds



Sources of Funds



Multi-Year Plan of Finance



- Davenport recommends that the Town pursue a “just-in-time” funding strategy utilizing a combination of Cash, ARPA, and Debt.

- Key aspects of the Debt component include:
 - Paying interest-only for 2+ years to incrementally ramp up debt service and relieve pressure on rate increases;

 - 28 years of principal amortization in order to spread out the cost of borrowing over roughly 30 years;

 - The interest rate for the borrowing is assumed at 5.50% for planning purposes; and

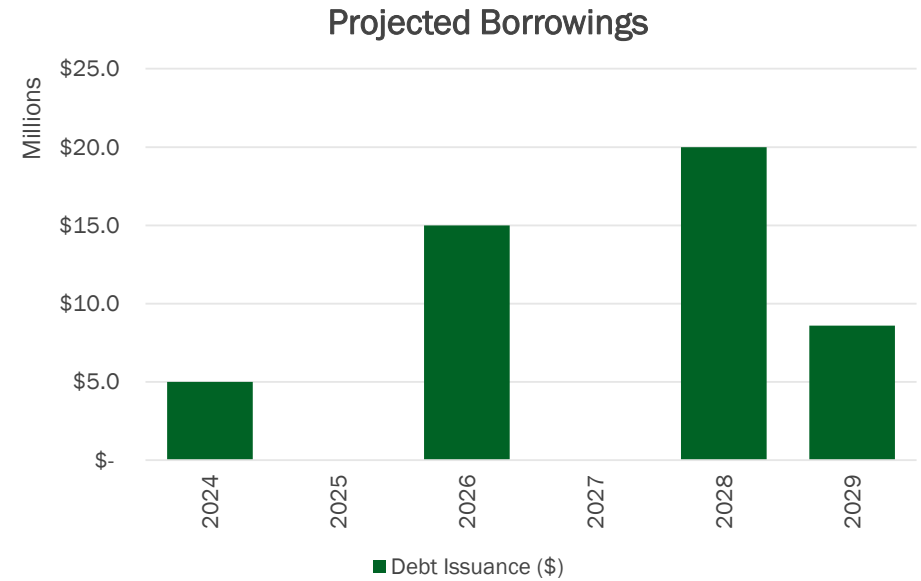
 - Providing the Town with a preliminary core of dollars that can be spent down as projects occur.

- Future issuances can be reassessed annually to determine the magnitude / timing of additional funding.

Projected Utility System Borrowings

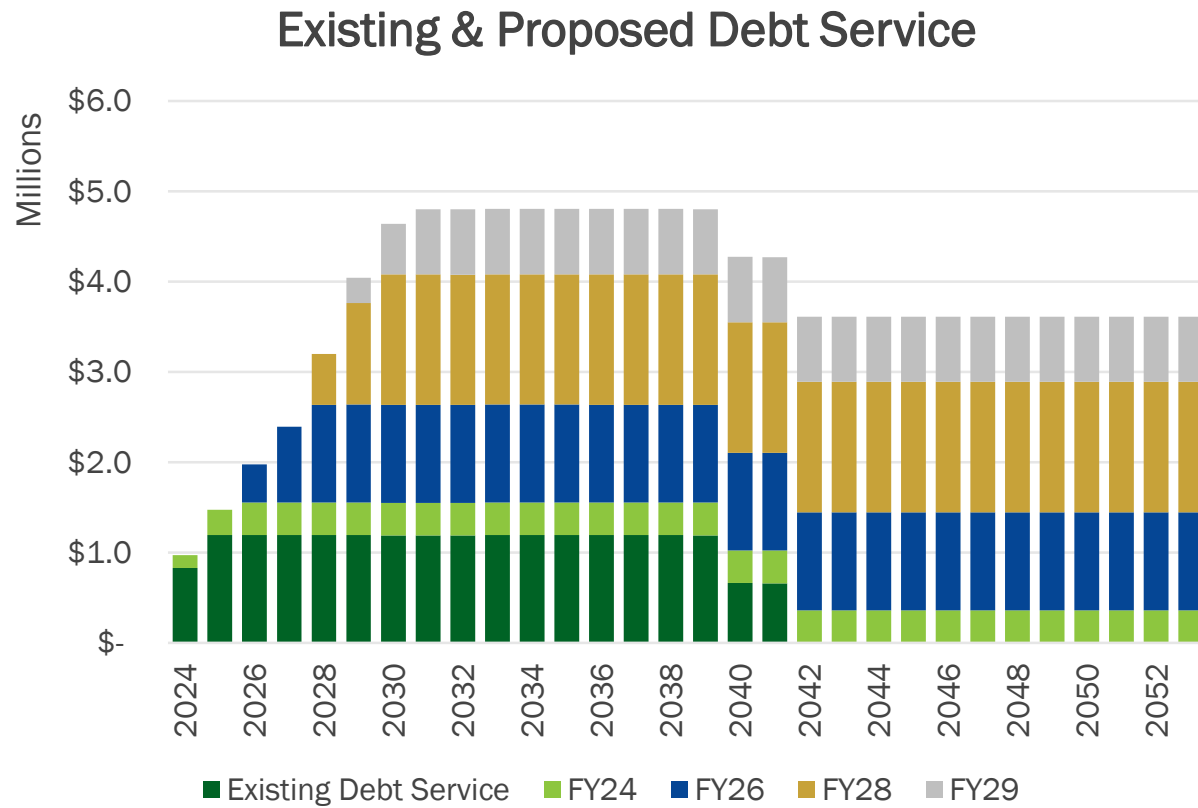


Sources of Funds		Total
1	Cash	\$ 18,081,942
2	ARPA	1,000,000
3	Debt	48,587,699
4	Total Sources	\$ 67,669,641



FY	2024	2025	2026	2027	2028	2029
Debt Issuance (\$)	\$ 5,000,000	\$ -	\$ 15,000,000	\$ -	\$ 20,000,000	\$ 8,587,699

Existing & Proposed Debt Service



Note: Debt assumes 2 years of interest-only and 28 years of level principal and interest payments. Planning interest rate of 5.50%. Preliminary, and subject to change.

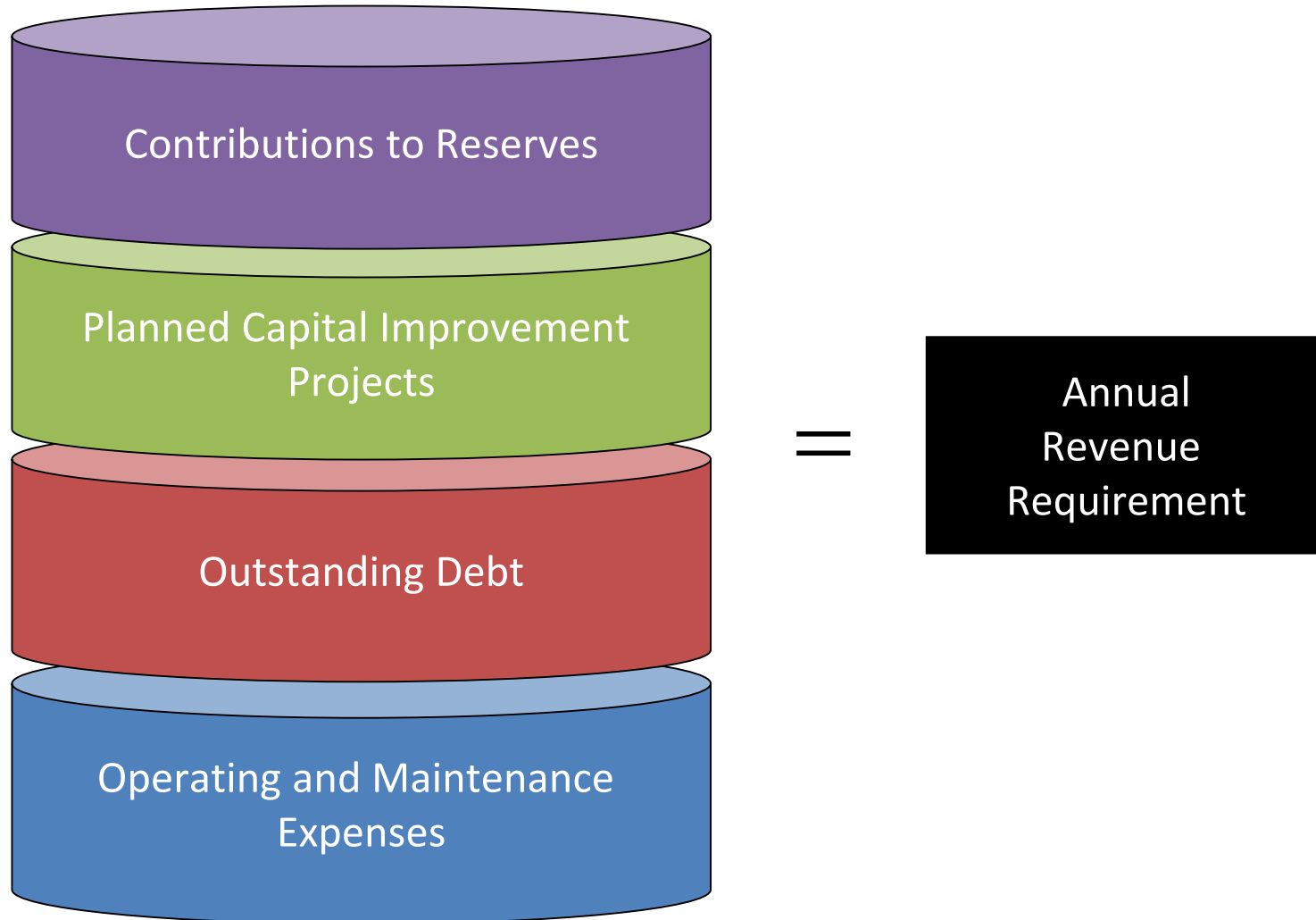
Interest Rate Environment | Tax-Exempt



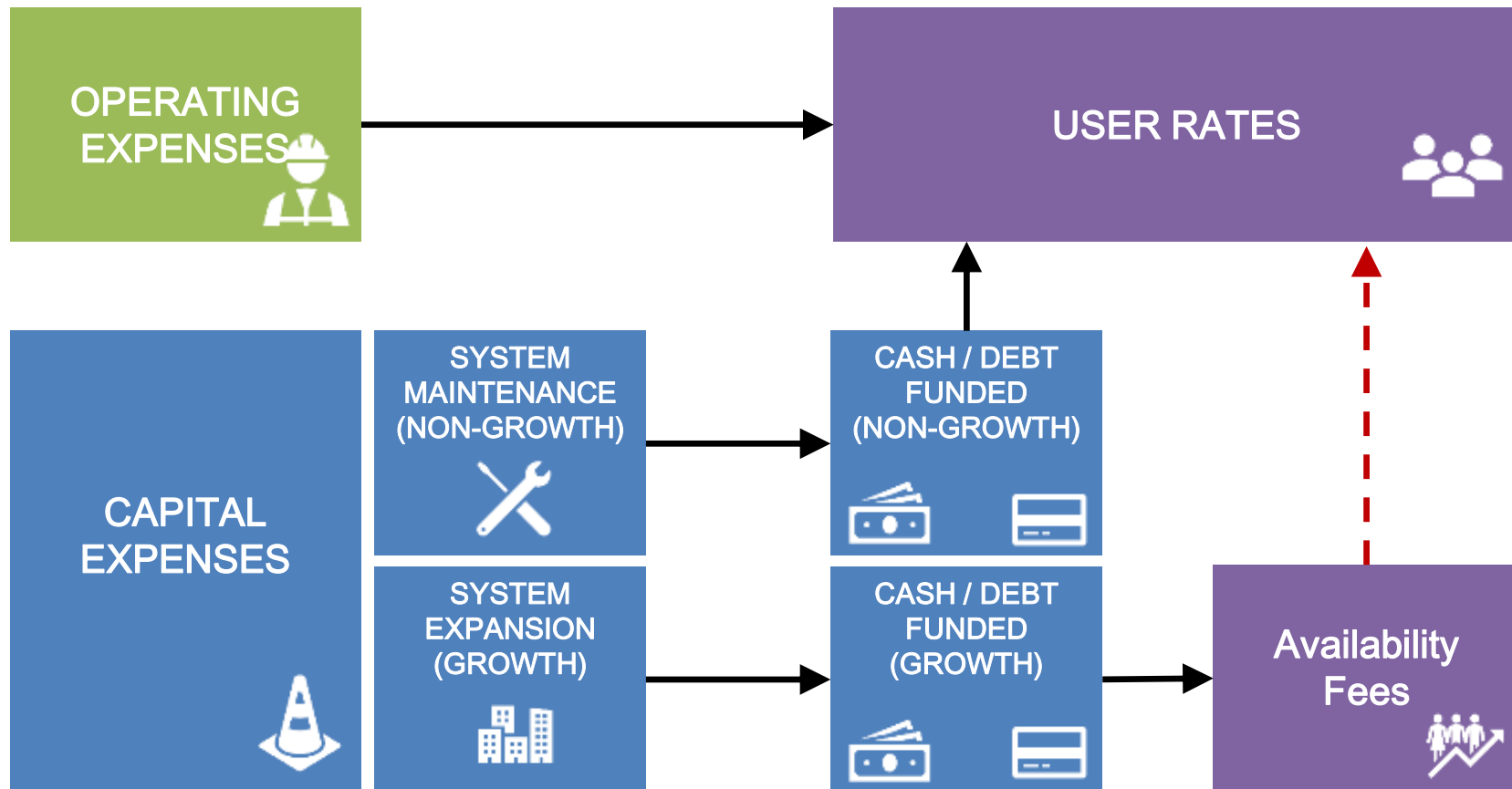
Interest rates increased during calendar year 2022, however, they still remain at historically favorable levels.

The 20-year interest rates above show the Bond Buyer's "20-Bond Index" which consists of 20 tax-exempt bonds with an average rating of 'Aa2'/'AA' (Moody's / S&P) that mature in 20 years. The 20-Bond Index serves as a general indicator of prevailing interest rates for tax-exempt borrowers. Updated as of 04/27/2023.

Revenue Requirement

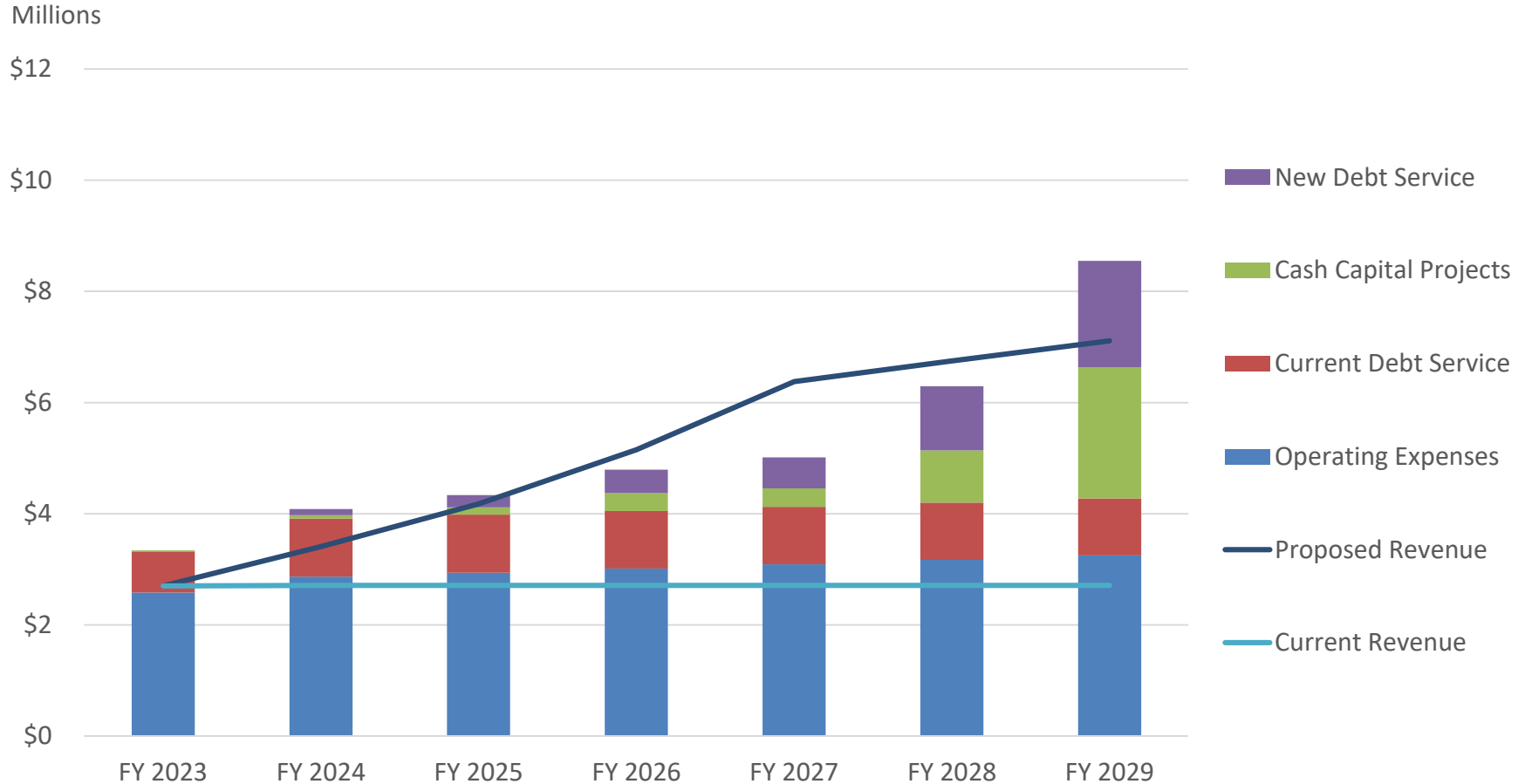


Relationship between User Rates and Availability Fees



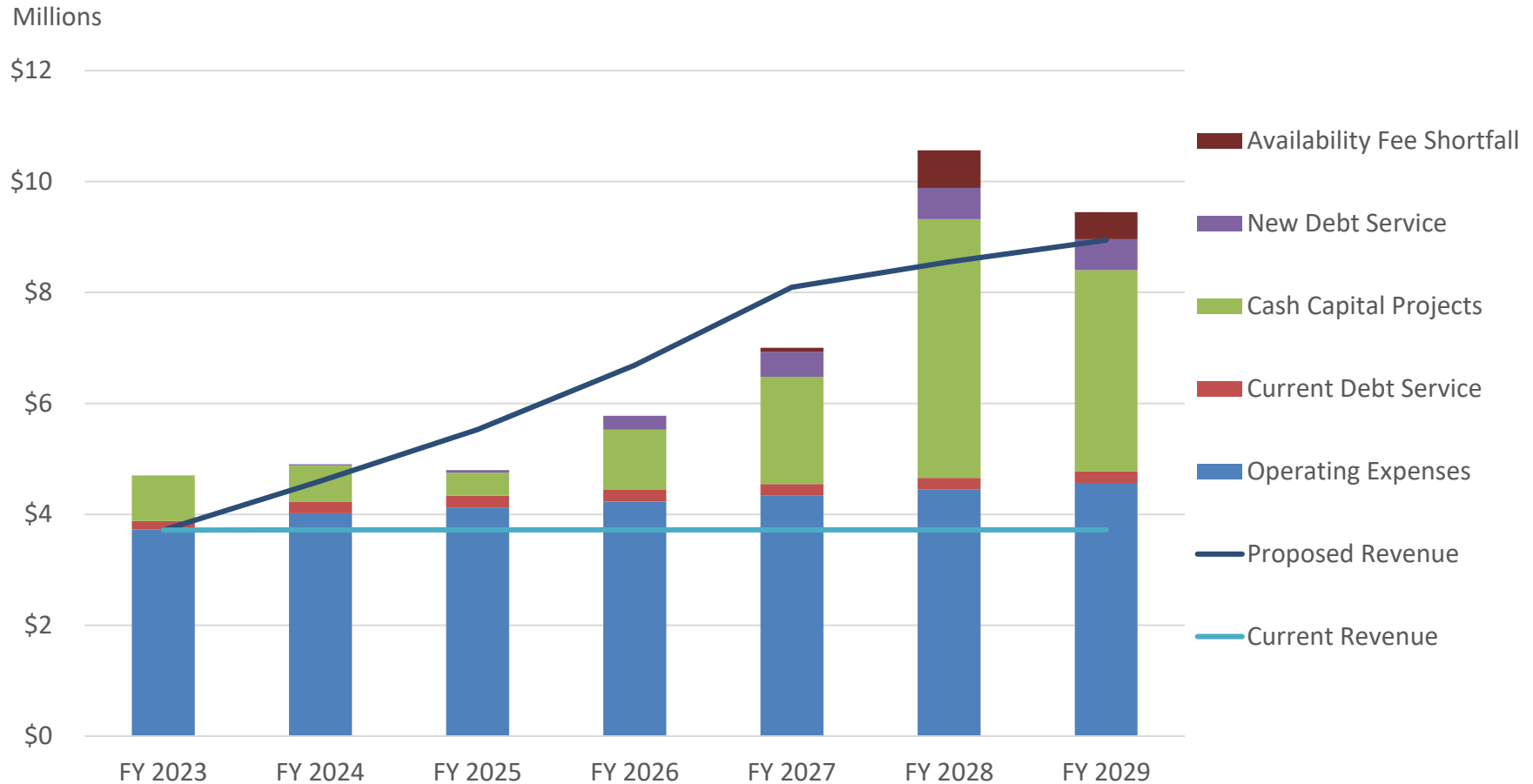
If availability fees are set at less than cost or anticipated growth does not occur, existing customers will have to make up the difference via higher user rates.

Revenue Requirements vs. Current and Proposed Revenue – Water



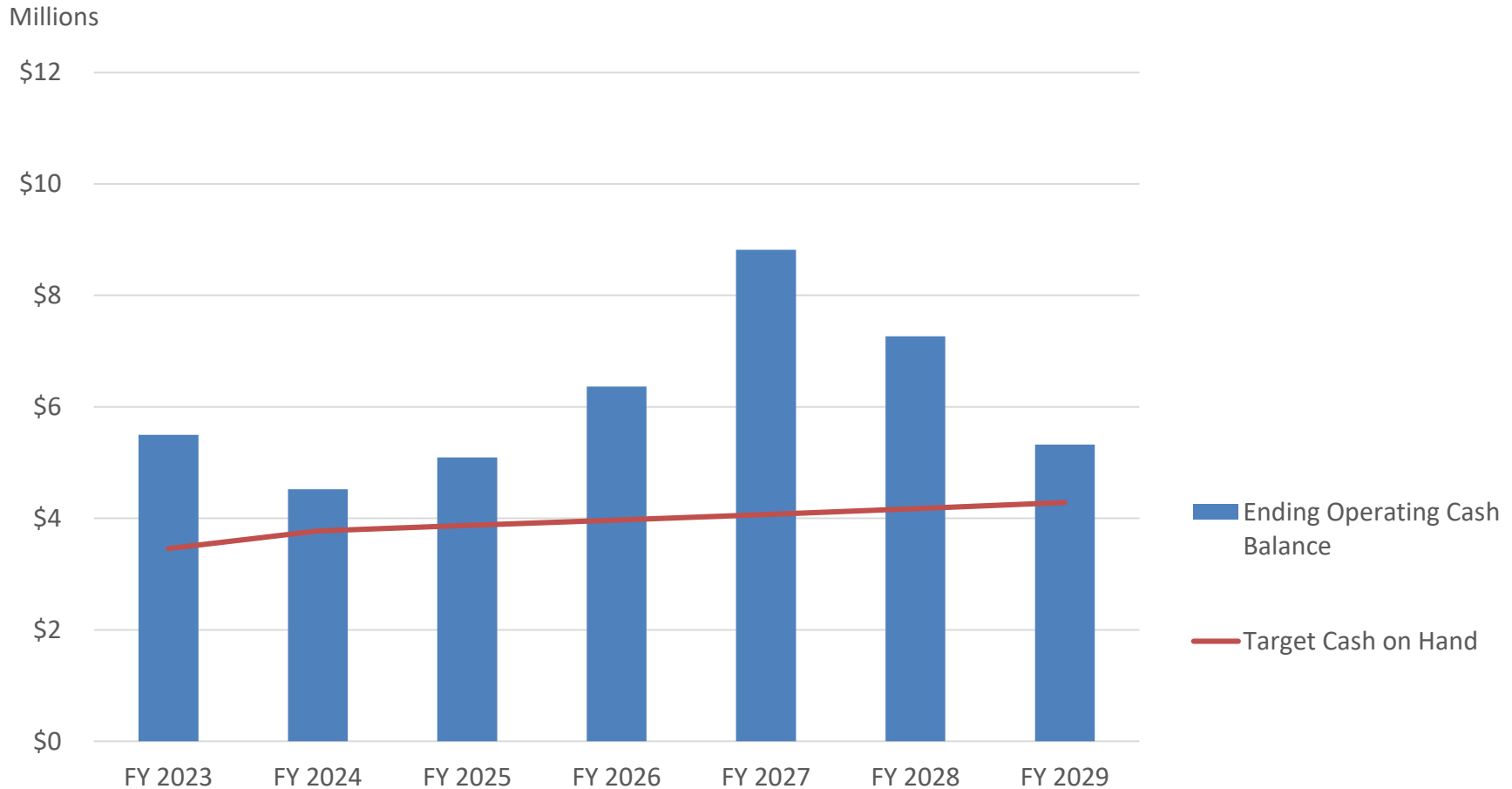
Proposed Revenue reflects a 25% increase in rate revenue from FY 2024 through FY 2027 and 6% in FY 2028 and FY 2029

Revenue Requirements vs. Current and Proposed Revenue – Sewer



Proposed Revenue reflects a 22% increase in rate revenue from FY 2024 through FY 2027 and 6% in FY 2028 and FY 2029

Operating Cash Balance – Combined Water and Sewer



The red line represents target equal to operating fund balance of 200 days of operating expenses. 1.2x debt service coverage is also met in all years after FY 2024.

Current In Town Charges and Rates (FY 2023)



Monthly Minimum Base Charges (includes 2,000 gallons)

Meter Size	Water	Sewer
5/8	\$6.43	\$12.56
3/4	\$9.65	\$18.84
1	\$16.08	\$31.40
1 1/2	\$32.15	\$62.80
2	\$51.44	\$100.48
3	\$112.53	\$219.80
4	\$202.55	\$395.64
6	\$417.95	\$816.40
8	\$514.40	\$1,004.80

Commodity Rate (per 1,000 gallons)

	Water	Sewer
Over 2,000 gallons	\$7.13	\$10.70

Out of Town rates are 1.5 times In Town rates

Projected In Town Water Charges and Rates



Charge/Rate	Current	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Monthly Minimum Base Charges (includes 2,000 gallons)							
5/8	\$6.43	\$8.04	\$10.05	\$12.56	\$15.70	\$16.64	\$17.64
3/4	\$9.65	\$12.06	\$15.08	\$18.84	\$23.55	\$24.96	\$26.46
1	\$16.08	\$20.10	\$25.13	\$31.40	\$39.25	\$41.60	\$44.10
1 1/2	\$32.15	\$40.20	\$50.25	\$62.80	\$78.50	\$83.20	\$88.20
2	\$51.44	\$64.32	\$80.40	\$100.48	\$125.60	\$133.12	\$141.12
3	\$112.53	\$140.70	\$175.88	\$219.80	\$274.75	\$291.20	\$308.70
4	\$202.55	\$253.26	\$316.58	\$395.64	\$494.55	\$524.16	\$555.66
6	\$417.95	\$522.60	\$653.25	\$816.40	\$1,020.50	\$1,081.60	\$1,146.60
8	\$514.40	\$643.20	\$804.00	\$1,004.80	\$1,256.00	\$1,331.20	\$1,411.20
Commodity Rate (per 1,000 gallons)							
Over 2,000 gallons	\$7.13	\$8.91	\$11.14	\$13.93	\$17.41	\$18.45	\$19.56

Out of Town rates are 1.5 times In Town rates

Projected In Town Sewer Charges and Rates



Charge/Rate	Current	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Monthly Minimum Base Charges (includes 2,000 gallons)							
5/8	\$12.56	\$15.32	\$18.69	\$22.80	\$27.82	\$29.49	\$31.26
3/4	\$18.84	\$22.98	\$28.04	\$34.20	\$41.73	\$44.24	\$46.89
1	\$31.40	\$38.30	\$46.73	\$57.00	\$69.55	\$73.73	\$78.15
1 1/2	\$62.80	\$76.60	\$93.45	\$114.00	\$139.10	\$147.45	\$156.30
2	\$100.48	\$122.56	\$149.52	\$182.40	\$222.56	\$235.92	\$250.08
3	\$219.80	\$268.10	\$327.08	\$399.00	\$486.85	\$516.08	\$547.05
4	\$395.64	\$482.58	\$588.74	\$718.20	\$876.33	\$928.94	\$984.69
6	\$816.40	\$995.80	\$1,214.85	\$1,482.00	\$1,808.30	\$1,916.85	\$2,031.90
8	\$1,004.80	\$1,225.60	\$1,495.20	\$1,824.00	\$2,225.60	\$2,359.20	\$2,500.80
Commodity Rate (per 1,000 gallons)							
Over 2,000 gallons	\$10.07	\$12.29	\$14.99	\$18.29	\$22.31	\$23.65	\$25.07

Out of Town rates are 1.5 times In Town rates

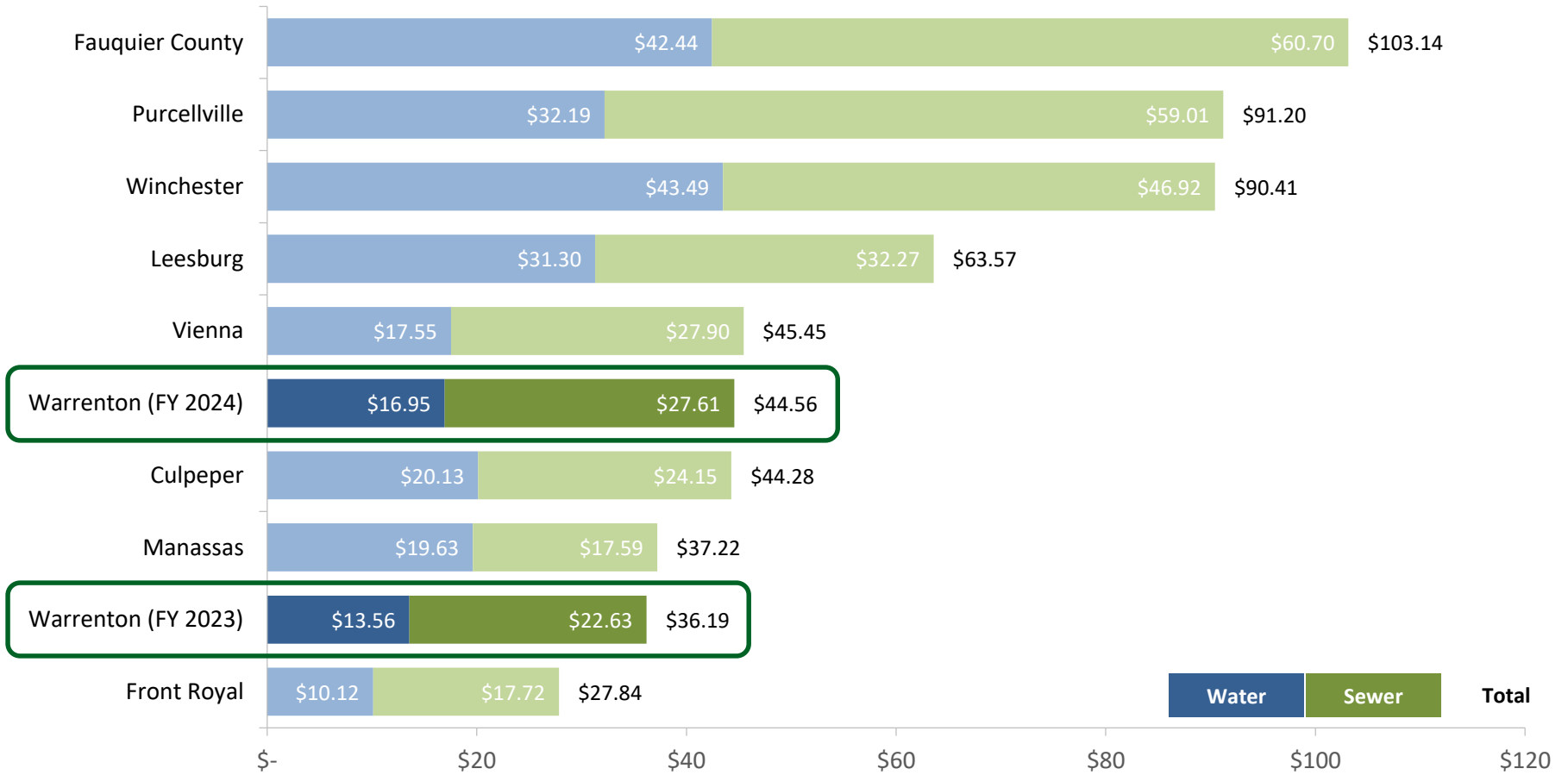
Combined Monthly Bill Impact



User	Monthly Usage (gallons)	Monthly Bill						
		Current	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Small User (25 th percentile)	2,000	\$18.99	\$23.36	\$28.74	\$35.36	\$43.52	\$46.13	\$48.90
Median User (50th percentile)	3,000	\$36.19	\$44.56	\$54.87	\$67.58	\$83.24	\$88.23	\$93.53
Large User (75 th percentile)	5,000	\$70.59	\$86.96	\$107.13	\$132.02	\$162.68	\$172.43	\$182.79
\$ Increase for Median User	3,000		\$8.37	\$10.31	\$12.71	\$15.66	\$4.99	\$5.30
% Increase for Median User	3,000		23.1%	23.1%	23.2%	23.2%	6.0%	6.0%

In Town Residential customers with 5/8 inch meters

FY 2024 Combined Monthly Bill Comparison



smallest meter size and 3,000 gallons of usage (median for Warrenton customers)

NewGen Recommendations



- Adopt the projected water and sewer rates for FY 2024.
- Continue to evaluate the Town’s evolving operating and capital needs.
- Review rates, charges, and fees on an annual basis and revise as needed.
- Consider a full cost of service study for all rates, charges, and fees every three to five years.

Next Steps



- Balance of Spring 2023: Town adopts Operating and Capital Budget and corresponding user rates.
- Summer/Early Fall 2023: Implement next phase of capital plan via a self-supporting utility borrowing.
- Fall 2023 into Winter 2023/2024: Update multi-year plan based upon actual results for FY 2023 and updated capital costs.

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Office of the Town Manager

Frank Cassidy

STAFF REPORT

Warrenton Town Council

Carter Nevill, Mayor
Heather Sutphin, Ward 1
William Semple, Ward 2
Brett Hamby, Ward 3
James Hartman, Ward 4 Vice Mayor
Jay Heroux, Ward 5
Paul Mooney, At Large
David McGuire, At Large

Item C.

Council Meeting Date:	October 10, 2023
Agenda Title:	Budget Strategic Goals and Policy Updates
Requested Action:	Review the recommendations and provide feedback
Department / Agency Lead:	Finance
Staff Lead:	Stephanie Miller, Finance Director

EXECUTIVE SUMMARY

In 2021, the Town Council adopted a set of Comprehensive Fiscal Policies. These policies serve the Town and its citizens by ensuring compliance with applicable laws and regulations, providing straightforward guidance to assist in safeguarding and properly accounting for public funds and other assets, and assuring that sufficient funds are available to meet the needs of its citizens.

The Budget Strategic Goals align with Plan Warrenton 2040 and continue efforts undertaken in the Fiscal Year 2023 budget.

BACKGROUND

POLICIES:

The Town endeavors to review these policies on an annual basis in conjunction with the budget process. In support of that goal, the following policy updates, based on recommended best practices, are suggested:

- Budget and Expenditure Control
 - The addition of any full-time equivalent position (FTE) requires Council approval.
 - The Finance Department shall maintain a master list of all approved positions.
 - The Town Manager is delegated the authority to approve supplemental appropriations for cost recoveries and grants requiring no local match less than \$50,000.

- Water & Sewer Cash Balance Policy
 - Included definition of unrestricted cash
 - Conditions for use of cash balance when necessary and with Town Council approval:
 - One-time capital expenditures in the fund
 - Offsetting economic volatility
 - Non-recurring expenditures
 - Providing liquidity in emergency situations

The following new financial policies are provided for consideration:

- Long Term Financial Planning
 - The Finance Department will produce a five-year forecast of revenues and expenditures, taking into account factors such as historical trends, external factors, reserve requirements, and anticipated projects.

- Personnel Action Policies
 - Department supervisors must obtain authorization signature from the Finance Department asserting that the requested personnel action is in line with the adopted budget.
 - All new FTEs require the approval of Council.

- Capital Improvement Program Policy
 - Capital projects will be assessed on criteria such as long-term financial forecasts, project impact, operating and maintenance costs, and legal mandates.
 - It is the policy of the Town to maintain its assets at a level that protects capital investment and reduces future maintenance and replacement costs.

- Grant Application & Acceptance Policy
 - All grant applications require Finance Department review and Town Manager approval.
 - The Town Manager is delegated the authority to appropriate grants less than \$50,000 requiring no local match. All other grants acceptances require Town Council approval.

STRATEGIC GOALS:

The Strategic Goals below will form the basis for the development of the Fiscal Year 2025 budget. These goals are included in Plan Warrenton 2040 and align with the Town’s current identified needs and ongoing priorities.

- ENSURE HEALTHY, SAFE, ADEQUATE WATER AND WASTEWATER SERVICES.
- TO PROVIDE A FISCALLY RESPONSIBLE INFRASTRUCTURE THAT MAINTAINS A HIGH QUALITY OF LIFE FOR RESIDENTS, SUPPORTS CURRENT BUSINESSES, AND ATTRACTS NEW EMPLOYERS WITH A STABLE TAX STRUCTURE.
- THE TOWN OF WARRENTON'S PARKS, OPEN SPACE AND ENVIRONMENT SERVE AS KEY ELEMENTS TO THE TOWN'S PUBLIC HEALTH INFRASTRUCTURE.
- PUBLIC SAFETY SERVICES AND POLICIES ARE VIEWED AS AMONGST THE BEST IN SIMILAR VIRGINIA TOWNS FOR THEIR RESPONSIVENESS, COMMUNITY TRUST, AND EFFECTIVENESS.

Service Level/Policy Impact

The suggested policy revisions and additions will strengthen the budgetary controls of the Town which serves to create a fiscally healthy and resilient government and community in support of Plan Warrenton 2040.

Fiscal Impact

There is no fiscal impact associated with this report.

Legal Impact

There is no legal impact associated with this report.

ATTACHMENTS



Policy Title: Capital Improvement Program Policy
Effective Date:

I. PURPOSE

Good infrastructure is vital for our community to thrive. This policy supports our infrastructure by:

- Promoting wise investment in new infrastructure; and
- Protecting the historical investments the Town of Warrenton has made in its infrastructure.

II. SCOPE

Each year, the Town of Warrenton staff will create a long-range capital improvement plan (CIP). The CIP will define and prioritize the capital projects that the Town plans to take on in the next five years.

A. Definition of a Capital Project

A capital improvement project should have a cost greater than \$100,000 and a useful life of at least 10 years. Projects that do not meet the \$100,000 and 10-year useful life criteria are maintenance capital projects. Capital projects generally require significant engineering design and construction, whereas maintenance capital projects (like road paving and sidewalk replacement) require routine upkeep every few years. These projects are not considered to be part of the Five-Year Capital Improvement Program.

B. Link to Needs Assessments

The capital improvement program is the result of a detailed planning process. The purpose is to address the Town's immediate and long-term capital needs in a conscious effort to best provide services and facilities to the citizens of Warrenton. To that end, projects are considered in alignment with Plan Warrenton 2040, the Town's Comprehensive Plan and strategic priorities identified by the Town Council. All projects in the CIP, with minor and few exceptions, should be based on needs assessments performed to determine the benefit of the asset compared to its cost.

III. POLICY

A. CIP Project Identification

Each year, Town of Warrenton staff will suggest potential projects for the CIP. At a minimum, this process will provide for the following:

- Long-term operating and maintenance costs. A plan will identify the cost to operate and maintain the asset over the next five years.
- Funding source. A plan will describe where the funding is expected to come from to acquire, operate, and maintain the asset.

- Project timing. A plan will identify the proposed schedule for engineering, construction, and other milestones in acquiring the asset.

B. CIP Project Selection

Town of Warrenton will create a process to assess capital projects. The selection process will include considerations such as long-term financial forecasts, project impact, operating and maintenance costs, legal mandates, impacts on public health and safety, and the extent to which the project aligns with the Town's strategic goals.

C. Balanced CIP

The CIP is a balanced, long-term plan. For the entire period of the CIP, revenues will be equal to the projected costs. It is possible that the plan will have more costs than revenues in any single year of the plan (with the exception of the first year, which is intended to become an appropriation plan for [name of your community]). However, over the life of the five-year plan, all expenses will be covered with revenues. Staff may record, on a separate document, projects that are deemed important but cannot fit into a balanced CIP. Town Council may choose to look at unfunded projects and defund an existing project in favor of another.

D. CIP Funding Strategy

Town of Warrenton may elect to use debt financing to acquire an asset or pay-as-you-go financing (i.e., cash financing). Below are guidelines used to help determine the best choice between debt and pay-as-you-go financing.

Factors that favor pay-as-you-go financing include situations where:

- The project can be funded from current revenues and fund balances (reserves);
- The project can be finished within an acceptable time frame given the available revenues;
- Additional debt levels could have a harmful effect on the Town's potential credit rating or repayment sources; or,
- Market conditions are unstable or suggest difficulties in marketing a debt.

Factors that favor long-term debt financing include situations where:

- Revenues that will be used to pay back debt are believed to be sufficient and reliable. This makes it more likely that long-term financing can be marketed with a suitable credit rating;

- Market conditions present favorable interest rates and demand for government debt financing;
- A project is immediately required to meet or relieve capacity needs and existing cash reserves are insufficient to pay project costs; or,
- The useful life of the asset is five years or longer.

E. Capital Budget

Each year, the Town of Warrenton will develop a capital budget that will be the spending plan for capital. The first year of the capital improvement plan determine the capital budget for the fiscal year.

F. Asset Inventory

The Town of Warrenton will develop a full asset inventory that projects equipment replacement and maintenance needs for a multiyear period and will update this projection each year. The asset inventory will describe the current condition of the Town's assets. It will compare this condition to a standard for asset condition. It will account for the full cost to maintain assets up to standard condition over their life cycle and account for risks associated with assets that are below standard condition. Departments will inventory and assess the assets for which they are responsible and ensure that their records are consistent with the Department of Finance's capital asset records.

G. Priority of Asset Maintenance and Replacement

It is the policy of the Town of Warrenton to maintain its assets at a level that protects capital investment and reduces future maintenance and replacement costs. Each year, Town staff will develop and recommend to Town Council a prioritized asset maintenance spending plan.

H. Funding of Asset Maintenance

It is the Town of Warrenton's policy to assign enough resources to preserve the Town's existing assets to the best of its ability before assigning resources to build or acquire new assets that also have operating and maintenance needs. This policy protects our historical investment in capital assets. It also helps us maintain sufficient community resources that meet current and anticipated demands.

I. Capital Improvement Plan Carry-Forward

Capital project appropriations, unlike operating budget appropriations, are typically one-time in nature and the projects may take multiple fiscal years to complete and use the appropriations. To avoid negatively affecting the progress of capital projects, the available balances of Town Council approved capital project funds are administratively rolled over the from one fiscal year

to the next fiscal year. Taking into consideration the timing of the prior fiscal year close-out transactions and the new fiscal year, the Finance Department may carry forward up to 100% of the available balance from the prior fiscal year to the new fiscal year. Exceptions may apply to projects expected to be completed or closed by the prior fiscal year-end and projects that have no known pending payments to be made in the prior fiscal year.

DRAFT



Policy Title: Budget and Expenditure Control
Effective Date: September 14, 2021

I. PURPOSE

Governmental budgets serve as annual fiscal plans to allocate scarce resources in support of the government's programs and services and in accordance with the governing body's identified priorities. This policy establishes guidelines for 1) the creation of a balanced annual budget; 2) how adjustments are made to the budget during the fiscal year; and 3) what controls will be used throughout the fiscal year to ensure that expenditures do not exceed appropriations.

II. SCOPE

This policy applies to all Town departments.

III. POLICY

A. Budget Creation

- i. **Basis of Budgeting – The annual budget spanning the fiscal year (July 1 – June 30) is prepared on a basis consistent with generally accepted accounting principles. For proprietary funds, depreciation expense is not budgeted, but is recorded and reported for financial purposes.**
- ii. **Balanced Budget – The Town Manager will consider conservative revenue projections, departmental expenditure requests, capital projects and staffing requests in the formulation of a balanced budget. The goal is to balance expenditures with current revenue. Fund balance may be used to balance the budget but should be used as outlined in the Town's Fund Balance Policy.**
- iii. **Principals for Budgeting – The Town Manager will prioritize funding liabilities owed by the Town as well as expenses associated with maintaining existing services. The Town Manager will examine prior spending patterns in the development of the budget.**
- iv. **Revenue Projections – Revenue will be conservatively estimated and consider several factors, including historical trends, economic**

conditions and outlook, impending changes in legislation, and any notifications of changes in funding received from State and Federal sources.

- v. Departmental Expenditure Requests – Each department must submit their requested budget for the next fiscal year to the Finance Department by December 31st. The request should provide line-item estimates and a detailed narrative supporting the amount requested. Justification must be provided for any additional staff requests and capital outlay.
- vi. Capital Improvement Plan (CIP) – The CIP is the Town’s five-year capital planning document. The CIP is reviewed by the Planning Commission to ensure compliance with the Town’s Comprehensive Plan. The Planning Commission then provides its recommendations to the Town Council.
- vii. Strategic Planning – The budget process will be coordinated to identify major policy issues for Town Council. The budget process will be a part of an overall strategic planning process for the Town.
- viii. Time for preparation and approval of budget - As required by Code of Virginia §15.2-2503, the Town Manager shall submit the proposed budget on or before the first day of April each year. The Town Council shall approve the budget no later than the date on which the fiscal year begins. Tax rates for the calendar year must be adopted no later than May 14th, as provided for in Town Code.

B. Personnel

- i. The creation of any new position requires Town Council approval since it represents an on-going commitment of funds.
- ii. The Finance Department shall maintain one master list of all approved positions, without regard to whether there is an incumbent or not.
- iii. Filled positions are budgeted at the incumbent’s actual salary, vacant positions are budgeted at the midpoint for the position based on the adopted pay scale.
- iv. If a cost-of-living adjustment (COLA) is adopted in a particular budget year, the adopted pay scale shall also be adjusted by this amount to capture the impact of inflation on the pay scale.

C. Budget Adjustment

During the fiscal year, conditions may arise that necessitate changes to the adopted budget. This may take the form of a transfer or a supplemental appropriation. The authorizations required for each are listed below:

- i. Supplemental Appropriation – A supplemental appropriation increases or decreases the overall budget appropriation. Funding sources may include grants, unanticipated revenues, inter-fund transfers or the use of Fund Balance.
 - a. The Town Manager is delegated authority to approve supplemental appropriations for the following:
 - Insurance recoveries less than \$50,000;
 - Other cost recoveries less than \$50,000; and
 - Grants requiring no local match less than \$50,000.
 - b. All supplemental appropriations other than those outlined in paragraph a. must be approved by the Town Council.
 - c. Code of Virginia §15.2-2507 requires that the Town Council hold a public hearing when a supplemental appropriation exceeds 1% of the total budget.
- ii. Transfers – A transfer involves the movement of a budgetary appropriation within a department or between departments, provided that the transfer does not increase or decrease the budgeted appropriation at the fund level.
 - a. All transfers are to be reviewed by the Finance Department and approved by the Town Manager.
 - b. Transferring appropriations between personnel and non-personnel categories is discouraged and will be allowed on an exception basis only.
 - c. Transfers between funds increase or decrease the total appropriation at the fund level, and as such, require Town Council approval. For purposes of this policy, each fund that is separately identified in the budget and the appropriations resolution, is a distinct fund.

D. Expenditure Control

- i. In accordance with the Town's Purchasing Policy, encumbrances are employed as a measure to avoid overspending a department's budget. The Finance Department will verify that funds are available in each line item prior to the issuance of purchase orders. Finance will notify the Department Head if a budget transfer is necessary.
- ii. The Finance Department will provide monthly revenue and expenditure reports to department heads. It is the responsibility of the department head to monitor their department's spending to ensure that adequate funding remains for planned expenditures.
- iii. All invoices for goods and/or services should be reviewed for accuracy, approved by the receiving department, and forwarded to the Finance department to ensure payment in a timely manner, as prescribed by Code of Virginia §2.2-4350. This also serves to provide accurate and timely financial information which is recorded in the system for the monthly reports.



I. PURPOSE

The purpose of the grant procedures outlined in this document is:

- To ensure proper oversight of all funds appropriated to the Town.
- To minimize the Town's risk of non-compliance with grant requirements.
- To ensure proper administration and accounting of all grants.

II. SCOPE

This policy is applicable to all Town departments preparing and submitting grant applications to agencies outside the Town government for funds, materials, or equipment to be received and administered by the Town. No grant will be accepted that will incur management reporting costs greater than the grant amount. Such costs include, but are not limited to, indirect costs, overhead and any other items needed to administer the grant.

III. POLICY

A. Grant Application Procedures

- i. The department desiring to submit a grant application soliciting funds will prepare the request as outlined by the grantor's requirements. The department seeking the grant should review all financial aspects of the grant application to ensure any required funds are available. The department director or their designee should sign the grant application as approval that:
 - Any required funds are available;
 - They are supportive of the fiscal impacts to their department; and
 - The goals and objectives of the grant are in line with that of the department as well as with the overall strategic direction of the Town as a whole.
- ii. The department applying for the grant should make every effort to project all initial and ongoing costs associated with the grant program including but not limited to: staff support, needed assistance for computer systems, office space, utilities, systems furniture, vehicles, office equipment, office supplies, computer software and hardware, and/or telephone charges.
- iii. Upon the department completing its financial assessment, they shall prepare and submit a Grant Processing Request Form to the Finance

Department with the original grant application, along with any required assurances and conditions prior to submitting the application to the grantor agency for approval. The purpose of this application notification to Finance is to allow Finance to maintain a comprehensive list of pending grant applications as well as active grants, to provide assistance as appropriate to departments in the preparation and administration of grants, and to ensure availability of matching funds, where applicable. The Finance department will obtain the Town Manager's approval and notify the department that the application has been approved.

- iv. If the grant is incorporated into the Adopted Budget during the annual budget process, then no additional Town Council approval is required for the application and acceptance of the grant.
- v. All grant award acceptances must have the proper approvals as follows:

Type of Grant	Finance Approval	Town Manager Approval	Town Council Approval
Grants less than \$50,000 requiring no local match	Required	Required	Not Required
All other grants	Required	Required	Required

- vi. In the event that a grant application is denied by the grantor, a copy of the letter of denial shall be forwarded to the Finance Department for their records.

B. Grant Acceptance Procedures

Whenever possible, all requests for acceptance of grants of a recurring nature should be submitted to the Finance Department through the normal budget process that must be approved by the Town Council.

- i. All grant award letters, acceptance agreements, memorandums, of understanding and other binding documents related to the execution of the grant should be signed and executed by the Town Manager.
- ii. The grant award letter/acceptance agreement (notification received detailing the amount of the grant awarded, grant assurances and special conditions, and the guidelines that must be followed to comply

with the grant requirements) will be forwarded to the Finance Department for review.

- iii. In order for expenditures to be processed against a grant, a budget appropriation must be established in accordance with the above table. The department requesting a grant will prepare Town Council agenda item requesting appropriation of grant funds, unless the grant has already been approved by the Council as part of the adopted annual budget process or Town Manager is delegated the authority to approve.
- iv. Upon Town Council or Town Manager approving a grant, the Finance Department will assign an account code to the grant and the applicable department will be notified of the account code. For reimbursable grants, all reimbursement requests should be copied and forwarded to Finance, noting the applicable account code for the receipting of the funds.
- v. Departments are responsible for ensuring that all funds are expended or encumbered prior to the end of the grant period in order for funds to be used adequately and not lost in future award periods.

C. Grant Monitoring and Reporting

i. Monitoring of Grants

- Departments are responsible for continuous monitoring of the financial status of grants. The Finance Department will provide departments with financial reports for such monitoring as needed.
- Line-item budget amendments must be approved prior to grant expenditures being made in order to avoid lost grant funds when/if amendments are denied.
- Departments must also monitor grants for compliance with all applicable federal, state, and local regulations and ensure that grant expenditures are in compliance with grant procurement policies and procedures.

ii. Grant Reporting

- The requesting department is responsible for providing financial reports to grantors.
- Departments handling grant reporting are responsible for complying by the due dates with all reporting requirements of the grant including financial reporting and reimbursement requests. All reimbursement requests should be copied and forwarded to Finance for review and monitoring of timeliness of revenue reimbursements.
- Timely requests for reimbursements are crucial to maximize the financial benefits of the grants to the Town. Grant reimbursements should be completed timely and in accordance with the requirements of the specific grant.

D. Indirect Costs

Grant applicants may request indirect costs if the application guidelines do not require a federally approved indirect cost rate and indirect cost are allowed in the grant. Departments should contact the Finance Department for assistance with identifying and calculating indirect costs for inclusion in grant applications. These funds may be used by the Finance Department to offset costs in overseeing the grant including staff time, external auditor expenditures, etc.

E. Personnel

- i. Any new personnel positions to be created as a result of grant funding must be approved by the Town Council and properly classified by Human Capital.
- ii. Departments are to promptly notify Payroll of coding changes needed for persons being charged to grants. (Coding changes are noted on personnel action request forms).

F. Grant-Related Procurement and Policy Issues

- i. Procurement must be notified that federal funds are involved for all purchases with federally funded grants, regardless of dollar amount.
- ii. The Finance Department also needs to be notified so that assets acquired using Federal funds can be properly identified. Equipment items purchased with Federal funds that cost \$5,000 or more are to be tagged when purchased so that proper disposal procedures can be followed when items are sold or sent to surplus.
- iii. Grantees should follow the Town's and/or grantor's policies and procedures for all practices including procurement for the selection of contractors and vendors. If grant applications have special conditions, a copy of such must be given to Procurement and Finance for assistance in compliance monitoring. If grant

guidelines require grantees to abide by different procurement procedures other than those adopted by the Town, the grantee should resolve the situation with Procurement prior to submitting the application. As a rule, the federal and state regulations prevail unless less restrictive than Town policies-where Town policy prevails.

G. Classification of Grant Revenue

All federal, state and local grant revenue should be receipted as revenue as opposed to as expenditure refunds in order to be in compliance with approved grant policies.

DRAFT



Policy Title: Long-Range Financial Planning
Effective Date:

I. PURPOSE

The purpose of the long-range financial planning policy is to establish strategic fiscal sustainability and resiliency principles for the Town which shall be used in the annual budget development process and to assist with making critical financial, economic development, and community development decisions.

II. SCOPE

The long-range financial planning process involves the evaluation of internal and external issues that may fiscally impact the Town. Long-range financial planning enables the Town to take proactive steps to mitigate known issues within its control. This is a mechanism to safeguard the Town's finances for current and future Town of Warrenton residents. To accomplish this, the Town shall prepare a financial forecast as part of the annual budget process. The financial forecast shall be for a period of 5 years. The forecast shall include revenues, expenditures, and the financial position of the Town. The Five-Year Forecast shall be conducted during the annual budget process to guide budget discussions and decisions.

III. POLICY

The Finance Department will conduct a comprehensive analysis to include the following in the five-year forecast:

- Historical analysis of revenue and expenditure trends;
- An analysis of affordability of existing programs, services, and projects;
- Research and analysis of known external factors (policy, economic, environmental, legislative, regulatory, social) that may impact the Town's budget. This shall not include major changes that are speculative;
- An analysis of anticipated new programs, services, and projects (such as the acquisition of land, expansion of facilities, and affordability of recurring operating expenses associated with the new program, services, and projects);
- A review current fees and rates for services;
- A projection of the required minimum fund balance reserves;
- An assessment of timing and funding requirements for equipment and fleet replacement;
- An analysis and projections of estimated debt service payments;
- A review of the actuarial reports on the Town's non-current liabilities

(such as Other-Postemployment Benefits, Pension, Risk, and Health) to determine the size of the liability, the Town's capacity to pay it, and planned approach to address it which will be factored into the forecast; and

- An analysis of Current year revenues, expenditures, and net position for all funds.

DRAFT



Policy Title: Water and Sewer Operating Fund Cash Balance Policy
Effective Date: August 9, 2016

I. PURPOSE

The purpose of this policy is to establish minimum cash balance levels for the Town's Water and Sewer Operating Fund.

II. SCOPE

This policy applies to the Water and Sewer Operating Fund.

III. POLICY

It is the policy of the Town of Warrenton that the Town's Water and Sewer Operating Fund shall be operated in a manner consistent with sound financial management principles. Adequate cash reserves are an essential element in both short-term and long-term financial planning. It serves to mitigate current and future risks, sustain operations during economic downturns, provides cash flow liquidity for enterprise operations, and enhances creditworthiness. While maintenance of an adequate level is necessary, it is important that the amount established be appropriate considering the enterprise's operations.

A. Minimum Level of Cash Reserves

The Town of Warrenton will maintain minimum unrestricted cash balances in the Water and Sewer Operating Fund equal to 200 days of the fund's current annual budget. Unrestricted cash represents cash that's readily available to be spent for any purpose and has not been pledged as collateral for a debt obligation or other purpose. For this calculation, this amount shall be based on the annual adopted budget figures.

Unrestricted cash may be maintained at a level higher than this minimum to save for transfer to the Water and Sewer Capital Fund for large, planned expenses (i.e., capital projects), emergencies, cash flow issues related to timing of revenue receipts, and to address economic volatility. The purpose of establishing minimum unrestricted cash balance level is to maintain a prudent level of financial resources to protect against the need to raise fees (outside of normal rate increases) due to temporary revenue shortfalls or unpredicted one-time expenses.

B. Funding the Cash Reserves

The unrestricted cash reserve is funded by any annual budget surplus in the fund and other unincumbered operating income.

C. Conditions for Use of Reserves

The unrestricted cash reserve shall be drawn upon only as necessary and any use thereof shall be upon the approval of Town Council and limited to:

1. One-time capital expenditures;
2. Offsetting economic volatility;
3. Non-recurring expenditures; and
4. Providing liquidity in emergency situations.

D. Replenishment of Minimum Unrestricted Cash Balance

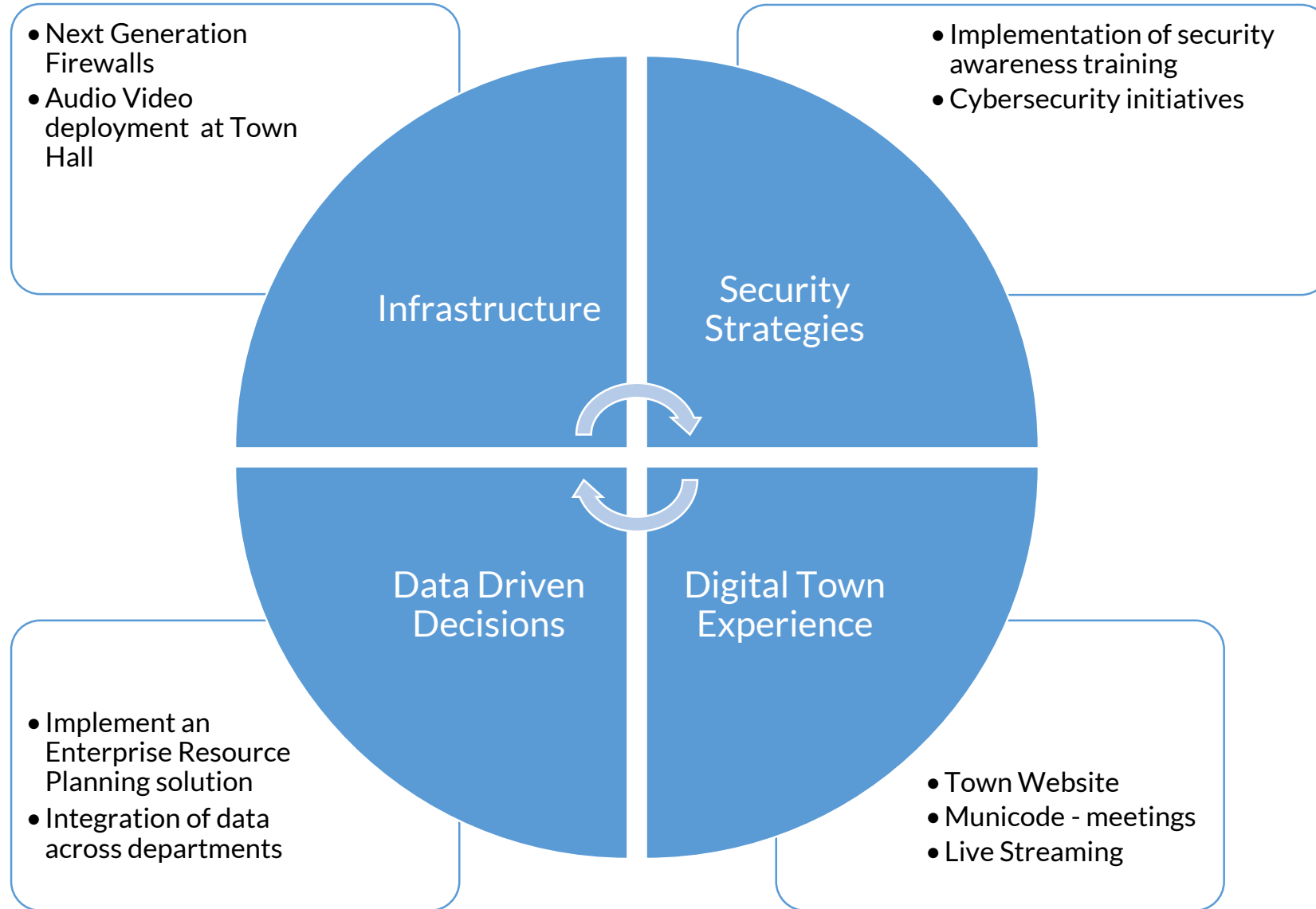
Should the minimum unrestricted cash balance fall below the 200 days of operating expenses requirement for the Water and Sewer Operating Fund, the Town Council shall approve and adopt a plan to restore this balance to the target level within the next three fiscal year's budget.



Information Technology Update

**Town Council Regular Meeting
October 10, 2023**

IT Modernization and Plan 2040





Information Technology Update

**Town Council Regular Meeting
October 10, 2023**



Office of the Town Manager

Frank Cassidy

STAFF REPORT

Warrenton Town Council

Carter Nevill, Mayor
Heather Sutphin, Ward 1
William Semple, Ward 2
Brett Hamby, Ward 3
James Hartman, Ward 4 Vice Mayor
Jay Heroux, Ward 5
Paul Mooney, At Large
David McGuire, At Large

Item D.

Council Meeting Date:	October 10, 2023
Agenda Title:	Information and Technology Department Overview
Requested Action:	Review
Department / Agency Lead:	Jonathan Stewart
Staff Lead:	Jonathan Stewart

EXECUTIVE SUMMARY

This staff report provides an overview of the Information Technology Department and its operations and future strategic goals.

BACKGROUND

The IT department comprises five full-time staff including a helpdesk administrator, systems administrator, audio video specialist, and administrative assistant. The IT Strategic Plan includes four overarching IT Modernization Strategies based upon industry best practices, which highlight the essential framework for a resilient, secure, efficient, and transparent technology infrastructure at the Town of Warrenton

The IT department’s primary role is to support the Town in providing public safety, economic opportunity, and quality public services in an attractive, well-planned community with historic character for the benefit, enjoyment, and accessibility of all. Building on industry best practices, the Information Technology Department seeks to strategically use resources to provide high-level services in a cost-effective manner and encourage opportunities, services, and infrastructure that allow people of all means to live, work, and visit.

In the past year, the IT department has handled over 2200 requests for service with an average completion time of two days per request.

The information technology department is focused on accomplishing the goals outlined in Plan Warrenton 2040, particularly by working towards CF-1.2 in providing technology that promotes efficiencies for services rendered to Town citizens. Goal CF-2.2. is met by incorporating industry-standard security measures to protect citizens and staff. IT is also working to meet the goals of transportation T-1.1 by working with Public Works personnel to deploy smart mobility technologies.

STAFF RECOMMENDATION

At this time no recommendations are considered for the department.

Fiscal Impact

There is no fiscal impact to the Town at this time. The Information technology Department is operating using current funding sources.

Starting in FY 24 the ERP software is included in our CARP with \$300,000.00 budgeted.

Legal Impact

There is no legal impact to the Town at this time.

ATTACHMENTS



Office of the Town Manager

Frank Cassidy

STAFF REPORT

Warrenton Town Council

Carter Nevill, Mayor
Heather Sutphin, Ward 1
William Semple, Ward 2
Brett Hamby, Ward 3
James Hartman, Ward 4 Vice Mayor
Jay Heroux, Ward 5
Paul Mooney, At Large
David McGuire, At Large

Item E.

Council Meeting Date:	October 10 th , 2022
Agenda Title:	Strategic Goals Overview
Requested Action:	Review the strategic goals laid out from the September 2022, Strategic retreat and discuss priorities from Council and Staff for the upcoming year.
Department / Agency Lead:	Town Manager
Staff Lead:	Frank Cassidy

EXECUTIVE SUMMARY

The Following Goals have been identified at the Fall 2022 Strategic retreat.



Resiliency, Financial and Workforce: The Town Council has taken steps to ensure the resilience of the workforce through Human Capital Initiatives like the Class and Comp study, Organizational Study, and management decisions.

Branding: The Town has hired a Communications Manager and continues to develop the branding of the Town of Warrenton.

Preparedness, Technology and Utilities: Town Staff have begun the process of evaluating the infrastructure needs of the Information and Technology department as well as the Utilities infrastructure within the Town. The Town Council has received briefings on these items at various Town Council meetings with steps to take to continue to address deficiencies and modernize the infrastructure.

Affordable Housing: The Town Council has directed Staff to review responses to an RFI from the community for distribution of \$250,000 in ARPA funds.

Boundary Line Adjustment: The Town Council has determined that this is no longer a priority to work towards.

The Town Staff recommends focusing on the following initiatives for the Fiscal year 2024-2025.

Resiliency, Financial and Workforce

Preparedness, Technology and Utilities

Affordable Housing

Staff requests that other priorities that the Council wishes to identify should be communicated before the November 14th, 2023, Town Council meeting so the initiatives may be incorporated into the planning of the budget season.

The Virginia Institute of Government currently has a hold placed on their calendar for January 26th-28th, 2024. If the Council has no issues with this date, Staff will begin the meeting preparations and bring forward a resolution setting the date for the retreat at a future meeting.

BACKGROUND

At the September 12th, 2023, Town Council meeting, the Strategic Retreat was cancelled due to availability of the facilitators. Ms. Jane Dittmar from the Virginia Institute of Government and staff have worked together on the following recommendation for the Council's strategic retreat plan.

- 1) Hold a work session at the October Town Council meeting to review the strategic goals laid out from the September 2022, Strategic retreat and discuss priorities from Council and Staff for the upcoming year.
- 2) After the work session, staff will begin to implement the priorities as the Budget process for 2024-2025 begins.
- 3) In late January, hold a strategic retreat with VIG or another facilitator to address the strategic goals and other topics identified by staff and Council.

- 4) In Late February, Hold a budget retreat for a preview of the implementation of the new strategic goals and the upcoming budget cycle for 2023-2024.

On September 24th, 2022, the Warrenton Town Council met with Ms. Jane Dittmar of the Virginia Institute of Government for a Strategic Retreat. This retreat allowed the Council to begin to work on biannual goals and set direction for Staff to begin work on the FY24 Budget. The September 2023 Retreat will begin the budget process for the Town and allow the Council to set goals and direct policy decisions to align itself with Plan Warrenton 2040.

At the June 13th, 2023, Regular Town Council Meeting, a resolution was adopted to hold the Strategic retreat on September 16th, 2023, at the Warrenton Police Department.

Discussions with the Virginia Institute of Government and other facilitators were held to determine a recommendation to the Council for the facilitator.

Due to unexpected impacts to the schedule, one facilitator had an unexpected narrowing of their ability to conduct the strategic retreat thus rendering the September 16th, date unavailable. Additionally, VIG no longer had availability for the requested date after review of their schedule.

Based on the recommendation from Ms. Jane Dittmar, the Town Council decided to hold the strategic retreat in late January of 2024 and begin to outline the priorities at meetings prior to the retreat.

STAFF RECOMMENDATION

Review the strategic goals laid out from the September 2022 strategic retreat and discuss priorities from Council and Staff for the upcoming year.

Consider the proposed date from the Virginia institute of Government who currently has January 26th-28th blocked off to facilitate the retreat.

Service Level / Policy Impact

The strategic goals will allow the Council and direct staff to create the budget within the Council's priorities directly impacting all service levels of the Town and affecting all aspects of Plan Warrenton 2040.

Fiscal Impact

The Strategic goals will direct how staff will begin to build the Fiscal Year 2025 annual budget.

Legal Impact

No Legal impact has been identified at this time.

ATTACHMENTS

- 1. Warrenton – August 2023 Meeting Follow up.
- 2. Warrenton Fall Council Retreat Report December 2022.



Weldon Cooper Center
for Public Service
Virginia Institute of Government

TO: Frank Cassidy, Interim Town Manager
Stephen Clough, Clerk, Warrenton Town Council
FR: Charles Hartgrove, ICMA-CM, Managing Director
Jane Dittmar, Consultant
Virginia Institute of Government
RE: Planning Meeting Follow Up
DT: September 1, 2023

Thank you for your time this week to discuss the possibility of the Virginia Institute of Government (VIG) assisting Warrenton's Town Council in developing a strategic plan to serve as a roadmap for the Town for the next three or more years.

The process we recommend is the following:

1. Schedule an early 2024 extended work session for the newly seated Council to develop the strategic plan, as well as consider other governing issues faced by the Council. This retreat will be designed and facilitated by VIG. You have tentatively identified the weekends of January 27 or February 2 for this retreat. VIG will hold the option of one of these dates for Warrenton provided Council is able to confirm arrangements with VIG by September 30. Because of the number of jurisdictions hoping to develop plans in the first quarter of next year, it will be impossible to hold this time after that.
2. Reach consensus on whether, besides executing the extended work session, you wish to retain VIG to write the draft plan for Council consideration and adoption. Finally, consider whether you wish VIG to work with the professional staff of the Town to determine milestones, metrics and an internal schedule for periodic reviews to measure successful execution of the plan.
3. Review the After-Action Report, completed by VIG for the Council last fall, to determine if the priorities identified at the September 2022 retreat still encompass the key priorities of the current Council. This can be reviewed at a Town Council work session sometime this fall. We will review the minutes and the video of this work session for insights to determine if Council direction remains the same or whether it may have shifted over the last 12 months. This will be part of our preparation to design the agenda for the 2024 Council retreat. So, if you do not have consensus at your work session, we can address this at the retreat.

VIG will draft a scope of work for Council consideration as soon as you let us know what process you would like to follow. The Town of Warrenton is an important VIG client and we stand ready to support the Town's progress so please do not hesitate to call, if you wish to discuss this further.



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Warrenton Town Council Fall Retreat After Action Summary & Recommendations

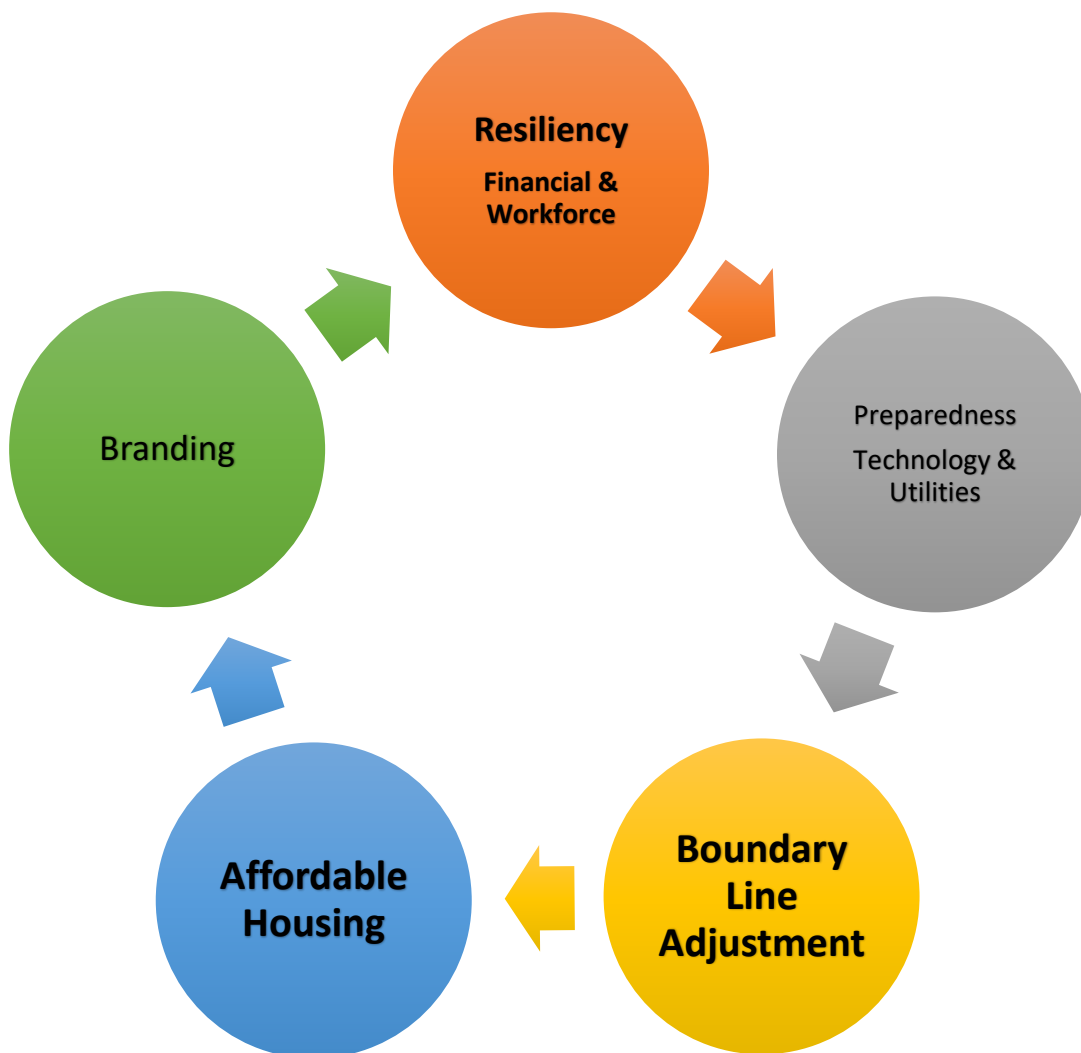
1. Executive Summary

The Town Council retreat revisited the priorities identified at its 2019 retreat, and the goals and themes of the Town's adopted Plan Warrenton 2040 Comprehensive Plan.

This is the first retreat since 2019 due to the pandemic, during which the Town, like many others, operated on an emergency basis. Many capital projects were delayed during the pandemic, while basic programs and services were maintained.

This year's retreat provides a starting point for the Council to continue its deliberations toward reaching consensus on how to move from the 2040 plan to the 6-year Capital Improvement Program (CIP), to the annual budget. The fiscal year 2024 annual budget, that will be adopted by the Town Council in June 2023, should reflect the Council's short-term strategic priorities (1-5 years), consistent with the long-term goals of the Plan Warrenton 2040 Comprehensive Plan.

Based on the Council's discussions of the priorities identified in 2019, and the emerging priorities discussed at this year's retreat, each of the following issues (see diagram below) will require further discussion and consideration over the next few months, for Council to reach consensus and provide necessary direction to the Town Manager and professional staff.



1. **Resiliency & Preparedness** – Identifying key actions and initiatives that will protect and promote a successful future for Warrenton specifically in the areas of (1) financial and workforce resources and (2) technology and utility investments.
2. **Boundary Line Adjustment** – including overall relationship with the County and the process to finish this project. Resume regularly scheduled Town/County Liaison Committee meetings with a particular focus on boundary line adjustments.
3. **Affordable Housing** – including how the County and Non-Governmental Organizations can assist in this challenge.
4. **Branding** – Determining the next steps in this ongoing goal.

Recommendations:

To build on the work of the September 24 retreat and to be well positioned for the Town's next fiscal planning cycle it would be advisable to review these initial discussions in relation to existing policy guiding documents.

The Plan Warrenton 2040 Comprehensive Plan is a guiding document for future decisions regarding development, preservation, public facilities, and other key components of community life. Although the plan seeks to provide a clear vision to help steer the Town, it provides a long term, 20-year, development horizon and is therefore very general in nature.

Accordingly, the Council may want to consider a shorter-term strategic plan that would provide the necessary 1–5-year prioritized policy guidance to the Town Manager and professional staff that can then be incorporated into the Town's Six-Year Capital Improvement program (CIP) and Annual Fiscal Plans.

A shorter term, 1–5-year, planning document would help the Council and the community realize its long-term vision by establishing goals and objectives in a logical, systematic, incremental manner.

Such a plan could look like the diagram below.



Once Council achieves further consensus on priorities, the professional staff can begin to:

1. Identify staff resources needed to execute the initiatives that will address these priorities
2. Identify the resources needed to pursue these priorities and develop program and project plans to achieve the desired goals. These resources include funding; technology, and human resources including managerial time.
3. It is also advisable to adopt project mapping software so initiatives can be reviewed for planning purposes and analyzed for milestone progress.

1. Overview of the Fall Retreat

Retreat Preparation

During the weeks preceding the Warrenton Town Council planning session, 1-hour individual interviews were conducted to prepare for the retreat. The following people participated in a one-on-one format via video with Jane Dittmar from the Virginia Institute of Government:

Council Members (9)

H. E. Carter Neville – Mayor
 James N. Hartman – Vice Mayor (Ward 4)
 Renard Carlos – At Large Member
 Sean Polster – At Large Member
 Heather D. Sutphin – Ward 1
 William Semple II – Ward 2
 Brett A. Hamby – Ward 3
 Jay Heroux – Ward 5 (newly appointed)
 Kevin Carter – Ward 5 (recently resigned)

Professional Staff (10)

Chris Martino – Interim Town Manager
 Tommy Cureton – Deputy Town Manager
 Stephen Clough – Town Clerk
 Kasey Braun- Human Capital Director
 Frank Cassidy – Public Works & Utilities Director
 Rob Walton- Community Development Director
 Denise Harris – Planning Manager
 Michael Kochis – Chief of Police
 Stephanie Miller – Finance Director
 Jonathan Stewart – IT Director
 Kelly Koernig – Parks & Recreation (Acting) Director

The Retreat

On September 24, 2022, The Warrenton Town Council convened a day long retreat at the Warrenton Police station. Those present included:

Council Members (8)

H. E. Carter Neville – Mayor
 James N. Hartman – Vice Mayor (Ward 4)
 Renard Carlos – At Large Member
 Sean Polster – At Large Member
 Heather D. Sutphin – Ward 1
 William Semple II – Ward 2
 Brett A. Hamby – Ward 3
 Jay Heroux – Ward 5

Professional Staff (4)

Chris Martino – Interim Town Manager
 Tommy Cureton – Deputy Town Manager
 Stephen Clough – Town Clerk
 Stephen Bruck – IT Specialist

Facilitator

Jane Dittmar – Virginia Institute of Government

RETREAT AGENDA

- 1) Roles & Responsibilities of Elected Bodies and Professional Staff
- 2) Norms and Expectations among Council Members
- 3) Communication Strategies for Council Members
- 4) Challenges and Opportunities facing the Town
- 5) Existing Priorities found in the last Strategic and Comprehensive Plans
- 6) Emerging Priorities based on Challenges and Opportunities facing the Town
- 7) Next steps

1. Roles and Responsibilities

The science and philosophy behind highly performing elected bodies and their staff was discussed. Material from national and international organizations was reviewed.

Town Council

There was agreement that the Council is the policy maker and responsible for addressing the Town's long-term future by adopting the capital improvement and comprehensive plans, formulating annually a budget and setting the tax rate, enacting local ordinances and making land use determinations. The Council also understands its role hiring the Town Manager and Town Attorney (or by securing outside legal services).

Town Manager & Staff

There was agreement the Town Manager is responsible for hiring, reviewing and retaining professional staff to execute Council policy and for ensuring high-level service delivery for Town residents. Discussion followed whether it was appropriate for individual Council members to work directly with staff instead of going through the Manager with constituent service requests. Utilizing the Town Manager to triage requests is the protocol described in the 2024 Warrenton Town Council Handbook. The handbook procedure was reaffirmed and Council members decided to review protocols on handling constituent service and other requests when the new Manager is on boarded.

Preferences for how Council Would Like Information

The group also discussed their preference in receiving briefings and recommendations from staff. There was consensus that an executive summary of findings and the recommendation of staff is a format that would be well received. There was not general consensus on how many options should be offered. Some members preferred just one recommendation with supporting justification. Others wanted a recommendation that included all the options considered by staff, and besides the supporting justification for the final recommendation, they wanted a brief explanation as to why the other options were rejected. One member did not like having three options to consider. There should be further discussion about how to present the staff recommendation found in their executive summaries.

2. Norms and Expectations

A. Summary

During individual Council members' interviews, the topic of norms of behavior among members came up frequently. This subject was added to the agenda. Besides stated norms found in the 2022 Warrenton Town Council Handbook, the Council discussed norms that were important to them individually and as a whole. Questions were posed such as:

- 1) How do we develop and find consensus on our norms?
- 2) How do we (shall we) evolve our norms?
- 3) How do we communicate our norms to new members?
- 4) What do we do if a norm is violated unintentionally?
- 5) What should we do if a member needs to violate a norm?

B. Individual interviews

During the individual interviews the following themes emerged:

- 1) **One Voice** – Members should bring policy and requests to the full Council so by majority, the Council can speak as “one voice”.
- 2) **No Surprises** – let your fellow members know in advance if they might be surprised by a motion or announcement
- 3) **General Decorum** – treat other members as you want to be treated
- 4) **The actions of a fellow member v. the member** – criticize actions or policies being promoted by a member, not the member themselves and keep language from becoming personal. Exercise care in social media posts and other group communication.
- 5) **My Ward – Our Town** – recognize and respect the ward members who represent a particular ward and all members should understand that the Council considers the good of the whole town.
- 6) **Horse trading votes** – when horse trading ward to ward, ensure that these votes are good for the whole town.
- 7) **Handling “breaches”** – reach out to understand a breach before reacting to what you assume was the motivation.

C. Exercise results

Members broke into four groups of two each to discuss norms and expectations. The following highlights illustrate the priorities of the members:

- 1) **Boundaries**
 - a. **Ward boundaries** – those in wards request that they be notified if another member has town business to discuss or attend to in their ward. That said, some members didn’t want the town to be too siloed by ward boundaries and wanted everyone to vote on behalf of the entire town.
 - b. **Staff boundaries** – “don’t put staff in the middle on issues”
 - c.

2) Respect for each other

There was also good consensus around the showing of mutual respect by avoiding surprising a fellow member by talking outside of official meetings, coming prepared to meetings, accepting each other's differences and handling disagreements or concerns in private and preferably in person.

3) Handling Breaches

Discussion included the recommendation that any breach should be addressed carefully with respect on both sides.

3. Communication Strategies & Tools

Some time was devoted on tools and strategies for effective communication.

4. Existing Priorities

A. Summary

The Council spent time reviewing existing priorities found in the Comprehensive Plan "Plan Warrenton 2040" and in the findings of the last strategic plan held in 2019.

Plan Warrenton 2040 serves as the official document tying together community features with the overall vision for its future. It is broken into 7 areas of community policy and development:

- 1) Historic resources
- 2) Community facilities
- 3) Housing
- 4) Open space, parks & environment
- 5) Transportation and circulation
- 6) Economic and fiscal resilience
- 7) Land use and character district plan

B The strategic plan created in 2019 identified the following priorities:

- 1) **Boundary Adjustment- Facilities** – From the Community Facilities section of the Comprehensive Plan
- 2) **Branding- Who, What, Where** – From both the Historic Resources section and the Economic and Fiscal Resilience sections of the Comprehensive Plan
- 3) **Recreation- Quality of Life Activities** - From the Open Space Parks and Environment section of the Comprehensive Plan
- 4) **Historic District - Boundaries** – from both the Historic Resources and Land Use and Character District Plan
- 5) **Gateways** – from both Transportation and Circulation section and the Land Use and Character District section of the Comprehensive Plan and
- 6) **Inventory of Affordable Housing** – from the Housing section of the Comprehensive Plan

C Group Exercise – reaffirming existing priorities

Members broke into four groups of two each to discuss norms and responsibilities. The following highlights illustrate the goals of the members. The top priorities identified by all four groups were:

1. Successful completion of the **boundary line adjustment** project
Top priority in two groups, number two priority in the other two groups
This priority continues to be consistent with both the Comprehensive Plan, found in the Community Facilities section, and the 2019 Council Retreat findings.
2. Forward movement on addressing **the affordable housing shortage**
Top priority in one group, Second priority in one group, third priority in two groups
This priority continues to be consistent with both the Comprehensive Plan found in the Housing section and the 2019 Council Retreat findings.
3. Continue the **branding** initiative for the town
Second priority in one group, third priority in one group, fourth priority in one group and fifth priority in one group. This priority continues to be consistent with both the Comprehensive Plan, found in the Historic Resources section and the Economic and Fiscal Resilience section, and the 2019 Council Retreat findings.
4. Honorable mentions were recorded for:
 - a) Recreation (mentioned twice)
 - b) Historic resources (mentioned twice)
 - c) Transportation, including walkability (mentioned twice)
 - d) Economic Development (mentioned once)

D Group Exercise – Identifying Emerging Priorities

Members broke into four groups of two each to discuss emerging priorities. The following highlights illustrate the priorities of the members

There were a number of emerging priorities the Council considered. The two major emerging priorities centered on **resiliency and workforce**.

- 1) **Resiliency** came in as number one emerging priority. It was listed number one for three groups and one of the three groups listed it twice. Descriptors for resiliency included:
 - a) “financial”
 - b) “preparedness”, and
 - c) “preparedness for change”.

2) Workforce, arguably a subcategory of resiliency, was elevated to its own priority. It was listed as the number two issue for two groups and the number three issue for two groups. Descriptors included

- a) "Hiring Town Manager"
- b) "Employee retention"
- c) "Employee recruitment and retention", and
- d) "Protecting our workforce"

3) Honorable mentions were recorded for:

- a) Representing town demographics; honoring diversity (mentioned twice)
- b) Maintaining high level of trust with residents (mentioned once)
- c) Maintaining the qualities of Warrenton that make it distinctive (mentioned once)
- d) Preparing for the future embracing change (mentioned once)
- e) Preparing for climate change (mentioned once)

5. Next Steps

There are several events in the near future that are significant to Council working through these priorities. They are:

1. Fall (October/November 2022): Communication with the search firm regarding the qualities the Council wants in their next Manager.
2. Winter (December 2022-February 2023): Utilizing remaining work session(s) in 2022 to review the cost, action steps and timing of identified priorities for 2023. Also test the formats for explaining recommendations in executive summaries to determine which style suits the Council.
3. Winter (December 2022-January 2023): The November 2022 election will identify the several new members who will join the Council effective January 2023. Besides other materials, new member orientation can include a discussion of norms and expectations with other remaining members of the Council.
4. Winter (December 2022-January 2023): The on boarding of new Council members
5. Winter (February 2023): Conduct a fiscal planning retreat where for Council to assess the Town's financial strength and stability, review recent financial trends, identify any warning signs and provide guidance and direction regarding the desired quality and level of programs and services, capital investments and how to allocate the Town's limited resource to move ahead on its priority initiatives.
6. Winter (February 2023): The on boarding of the new Town Manager.

7. Spring (March-April 2023): Staff preparation of the proposed FY 2024 Annual Budget, the FY 2024 – FY 2029 6-year CIP and FY 2024 – FY 2028 year Budget. To do this there will need to be clear direction from Council on what priorities will be “slow walked” and which priorities should command the most discretionary resources in the next budget cycle.

Prepared by:
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Community Development
Department

STAFF REPORT

Town Council Meeting Date:	October 10 th , 2023
Agenda Title:	Special Use Permit 2023-01 St John the Evangelist
Requested Action:	Deferral Request from Applicant to October Meeting
Decision Deadline:	February 12, 2024
Staff Lead:	Denise Harris, Planning Manager

EXECUTIVE SUMMARY

Special Use Permit (SUP) 2023-01 St John the Evangelist, the Applicant, and the Owner, the Catholic Diocese of Arlington (St Johns Catholic School Tees), seeks to amend a June 3, 1986, SUP approval to allow for the demolition of an existing building and the construction of a new 13,000 square foot office building. The subject parcel is located in the Residential (R-10) District of the Town of Warrenton Zoning Ordinance and is designated as Live/Work on the Future Land Use Map. The subject parcel (GPIN 6984-36-7135-000) is located at 271 Winchester Street on approximately 11.0664 acres.

The Town Council deferred, per the Applicant’s request, the SUP application from the August Town Council Public Hearing until September. The Applicant requested a second deferral to the October Town Council meeting to allow for the Archdiocese of Arlington’s General Counsel to work with the Town Attorney regarding the Condition of Approval regarding the right-of-way dedication on Winchester Street.

Planning Commission held a Work Session on April 18, 2023⁶ and a Public Hearing on May 16, 2023. Three members of the public spoke to the application. Items brought up included proximity of the new building to Winchester Street, potential loss of old growth trees, noise “bounce back” to residences, no crosswalk on Winchester to entrance, water run-off, topo/grade changes, no lighting on building, loss of green space, question if additional parking is necessary, and support for the existing building to be demolished. The Planning Commission requested the Applicant work to address items missing on the SUP Plans and issues raised. The Planning Commission also suggested the Applicant look at the potential of green space vs additional parking. The Planning Commission voted 3-0 (Lawrence, Lasher absent) to hold the Public Hearing open until the June Planning Commission meeting.

On June 1, 2023, the Applicant submitted an updated SUP Plan to address the requested missing information, including parking, topography, improvements on the site, refuse locations, adjacent properties, and other miscellaneous items. The Applicant piloted a new student pick up/drop off pattern to address draft Condition of Approval 9.b and found it to be successful in preventing stacking in the public-right-of way.

The Planning Commission continued the Public Hearing on June 20, 2023. Three members of the public spoke to the application. One in support of the church and two adjacent property owners, while generally in support, raised questions regarding water runoff. The residents questioned if leaving the old building in place while the new one is constructed will impact and hinder the ability to properly grade the site to resolve ongoing water runoff issues to properties on Richards Drive and Winchester Street. Citizens spoke to the desire for reassurance the new building will deal with the water issues.

The Planning Commission voted to recommend approval to the Town Council subject to draft Conditions of Approval (4-0-1; Lawrence abstained).

BACKGROUND

In 1986, St Johns the Evangelist received a Special Use Permit for a school. The minutes from the Town Council meeting indicate the intent was to allow:

1. Construction of the School in two phases
2. Phase 1 enrollment 270
3. Phase 2 enrollment 540
4. Relocate the convent
5. Obtain Right of way dedication to centerline of King Street (aka John E Mann Street) and Winchester

When the church school sought an expansion in 2017, a Zoning Determination letter found the building expansion could proceed without a Special Use Permit amendment as the enrollment numbers were not changing. However, during the Site Development Plan (SDP 2017-01), the Town indicated that *“as new projects are proposed by the Church, the additional work will be considered accumulative to this plan and will trigger the Commonwealth’s SWM Regulations.”* The Town’s willingness to work with the applicant in 2017 was predicated on the shared knowledge that the next proposed improvement would include a comprehensive update of the site’s uses and existing conditions. This Special Use Permit application is the opportunity for the Applicant to bring the last 37 years of property uses up to date.

During agency review of the application, staff raised several potential issues and asked the Applicant to address them. Highlights of issues include the potential inability to meet landscaping buffer requirements, no details on lighting, preliminary stormwater design, proposed refuse locations, and no height and dimensions of the building, retaining walls, parking, travelways, setbacks, and landscape buffers for staff to ensure the proposal will meet requirements. Staff is aware that stormwater and landscape buffer solutions can be expensive to engineer. Staff sought to help the applicant understand that staff cannot ensure this proposal works without more information and/or requested waivers.

The Planning Commission held a work session and two public hearing dates on this proposal. The Planning Commission discussed buffers and landscaping along the length of the northern boundary of the property; energy, water, and sewer demands; intentions of existing building and timing of demolition; parking overflow into adjacent neighborhoods and stacking in the public right-of-way; elevations from Winchester Street and the request for artist's rendering; appropriate stormwater, sediment control, and boundary line adjustments; and ARB approvals.

PLANNING COMMISSION RECOMMENDATION

The Planning Commission recommended approval to the Town Council subject to the draft Condition of Approval. The Applicant is requesting a deferral to the October Town Council meeting.

Suggested Motions

1. I move that the Town Council defer SUP 23-1, St John Catholic Church, per the Applicant's request, to the October Town Council meeting.

ATTACHMENTS

1. Attachment A - Maps
2. Attachment B - May 13, 2023, Staff Analysis
3. Attachment C - May 30, 2023 Special Use Permit Plan
4. Attachment D - July 11, 2023 Conditions of Approval
6. Attachment F - Statement of Justification/Addendum to the Statement of Justification
7. Attachment G - Overall Site Access Plan
8. Attachment H - March 23, 2023/Revised April 27, 2023 Comment Response Letter
9. Attachment I - Town Council 1986 Meeting Minutes
10. Attachment J - Artist Renderings from Winchester Street

SPECIAL USE PERMIT CONDITIONS**Applicant: ST. JOHN THE EVANGELIST CATHOLIC
CHURCH****Owner: CATHOLIC DIOCESE OF ARLINGTON
(ST JOHNS CATHOLIC SCHOOL TEES)****SUP 23-01 (Supersedes SUP Dated June 3, 1986)****PINs 6984-36-7135-0000 (the "Property")****Special Use Permit Area: ± 11.0664 Zoning: R-10
Residential****Date: July 11, 2023**

In approving a Special Use Permit, the Town Council may impose such conditions, safeguards, and restrictions as may be necessary to avoid, minimize, or mitigate any potentially adverse or injurious effect of such special uses upon other properties in the neighborhood, and to carry out the general purpose and intent of this Ordinance. The Council may require a guarantee or bond to ensure that compliance with the imposed conditions. All required conditions shall be set out in the documentation approving the Special Use Permit (SUP).

1. General: This Special Use Permit is issued covering the entire Property pursuant to the provisions of § 11-3.10 of the Town of Warrenton Zoning Ordinance.
2. Site Development: The Property shall be developed in substantial conformance with the Special Use Permit Plan entitled, "Special Use Permit Plat," prepared by Carson Land Consultants, Page 1 dated February 10, 2023 and Pages 2-4 dated December 6, 2022, all revised May 30, 2023, consisting of four (4) sheets (the "SUP Plan"). Minor changes and adjustments may be made to the road and street alignments, entrances, parking, dimensions and location of SWM/BMP facilities, the exact configuration and location of building footprints, and other similar features as shown on the SUP Plan, provided they meet the intent of these Conditions and are approved by the Director of Community Development or the Zoning Administrator.

3. Use Parameters:
 - a. Special Use Permit Area – The Special Use Permit shall apply to the entire +/- 11.0664 acre site.
 - b. Use Limitations – The use shall be limited to a religious institution and related facilities including the church, school, and those accessory uses customarily incidental to the primary uses.
 - c. Maximum Students – The maximum number of students shall be 540 as approved in the previous SUP dated June 3, 1986.
4. Architecture: The site is located within the Historic District and is subject to Architectural Review Board, Certificates of Appropriateness (COA), and the Town of Warrenton Guide to Historic Resources. No structures shall be modified or erected until a COA has been issued. This includes walls and fences exceeding 36” in height.
5. Signage: All signage shall comply with the applicable provisions of Article 6 of the Town of Warrenton Zoning Ordinance.
6. Site Maintenance and Refuse Collection: Any refuse storage areas shall be screened with a solid enclosure constructed of materials that are compatible with the buildings on the property. The enclosure shall have gates that prohibit viewing this area from adjoining properties and public rights-of-way. The gates shall remain closed when not in use and the trash containers shall be emptied as necessary to prevent odors or infestation by vermin. Compliance with this condition shall be demonstrated on each final site plan(s). Deliveries and refuse collection shall follow Town Code Section 11-19(9).
7. Environment: All landscaping shall be native and drought-resistant or other species as may be approved on the final site plan(s).
 - a) Landscaping – The Applicant shall make all efforts to maintain and preserve the existing mature vegetation and hardwood trees when feasible.
 - b) Minimize Clearing and Grading – The Applicant shall show the limits of clearing and grading for the site on the approved final site plan(s). For portions of buffers located outside the limits of clearing and grading, the existing vegetation shall be preserved and supplemented to meet the intent the buffer as noted above. In addition, existing trees and shrubs shall be incorporated into the landscaping plan. This does not preclude the removal of diseased, noxious and/or invasive vegetation.
 - e) Stormwater Management –The property owner is required to account for all improvements, regardless of square footage, made to the property since July 1, 2014, and design and construct for the accumulative stormwater management for both quantity and quality in accordance with all applicable State and local

requirements in effect at the time of site development plan approval.

8. Lighting:

- a. Proposed lighting shall be reviewed during the review of the Certificate of Appropriateness and at the time of site plan in accordance with the Zoning Ordinance.
- b. Building-mounted security lighting, which is full cut-off and directed toward the building and in compliance with the Zoning Ordinance, shall be permitted.
- c. All new and replacement light fixtures shall consist of full cut-off fixtures with a color temperature of 3,000 K or lower, and a maximum mounting height of 14 feet.
- d. Lighting on the school managed turf fields is prohibited.
- e. All other proposed lighting shall be addressed at site plan in accordance with the Zoning Ordinance.

9. Transportation:

- a) Vehicular Access – The site shall be accessed from the Winchester Street and John E. Mann entrances. Egress shall be controlled via a stop sign traffic control with stop bar at the exits.
- b) There shall be no stacking of vehicles into the public right-of-way. The school is responsible for ensuring drop off and pick up from the school do not result in backs ups on the public streets. Stacking on the property by accessing the school by way of Winchester Street or staggering times is required to achieve this condition.
- c) Handicapped Parking and Signage – Handicapped parking and signage for shall be provided in accordance with the PFM and the Americans with Disabilities Act.
- d) Dedication of public right-of-way on Winchester Street shall be included on the Site Development Plan and be recorded prior to occupancy permit. With the dedication of the right-of-way frontage, the property owner will submit with the site plan an agreement to retain the maintenance of the existing perimeter wall and entrance features, including the entrance apron on Winchester Street for Town review and approval.

10. Parking: Parking located on the north side of the property, adjacent to Richards Lane shall buffer and shield the headlights of vehicles from the adjacent residences. Headlights shall be screened from view from the residential-zoned property located to the north to at least 3.5 feet in height above the parking surface elevation with a solid wall, sight-tight fence, evergreen shrubs, or other method as approved by the Zoning Administrator as a part of the Site Development Plan, to extend the length of the parking on the north side.

11. Water and Sewer: The site shall continue to be served by public water, with the property owner bearing all costs associated with providing the additional services that will be required. Construction of a new 3-story building, +/- 13,000 square foot located at the northwest corner of the property on Winchester Street will require a separate water meter, per Town Code

12. Demolition: Demolition of the existing 3 story stone and block building located in the northwest portion of the property adjacent to Richards Lane shall require a permit from the Town. No final occupancy permit shall be issued on a new 3-story building, +/- 13,000 square foot located at the northwest corner of the property on Winchester Street until the above existing building has been demolished. The old building will be demolished within 6 months after the issuance of the temporary occupancy permit.

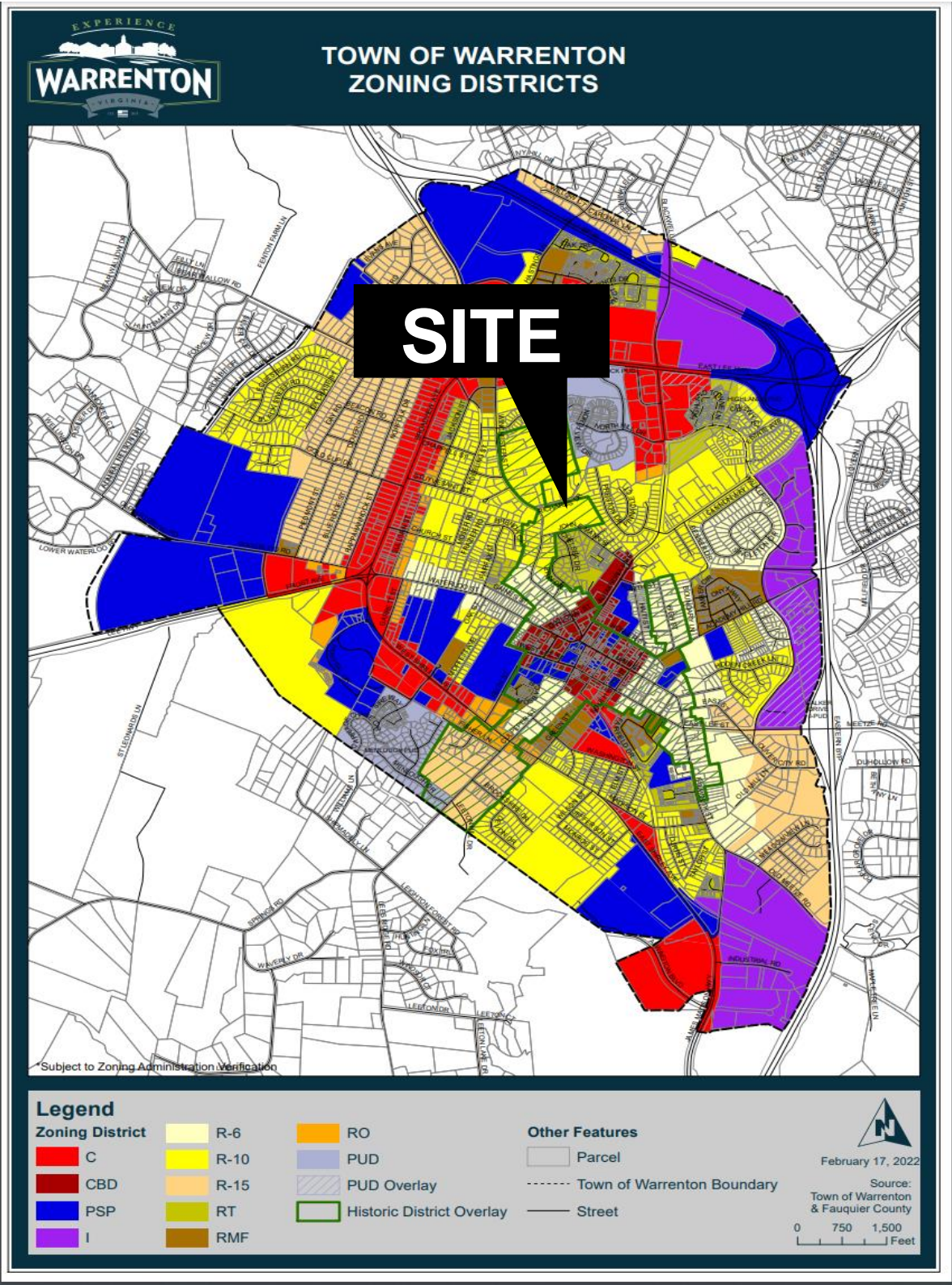
Attachment A - Map
VICINITY MAP



Attachment A - Map
AERIAL MAP



Attachment A - Map
EXISTING ZONING MAP



Attachment A - Map FUTURE LAND USE MAP

FUTURE LAND USE

Character Districts

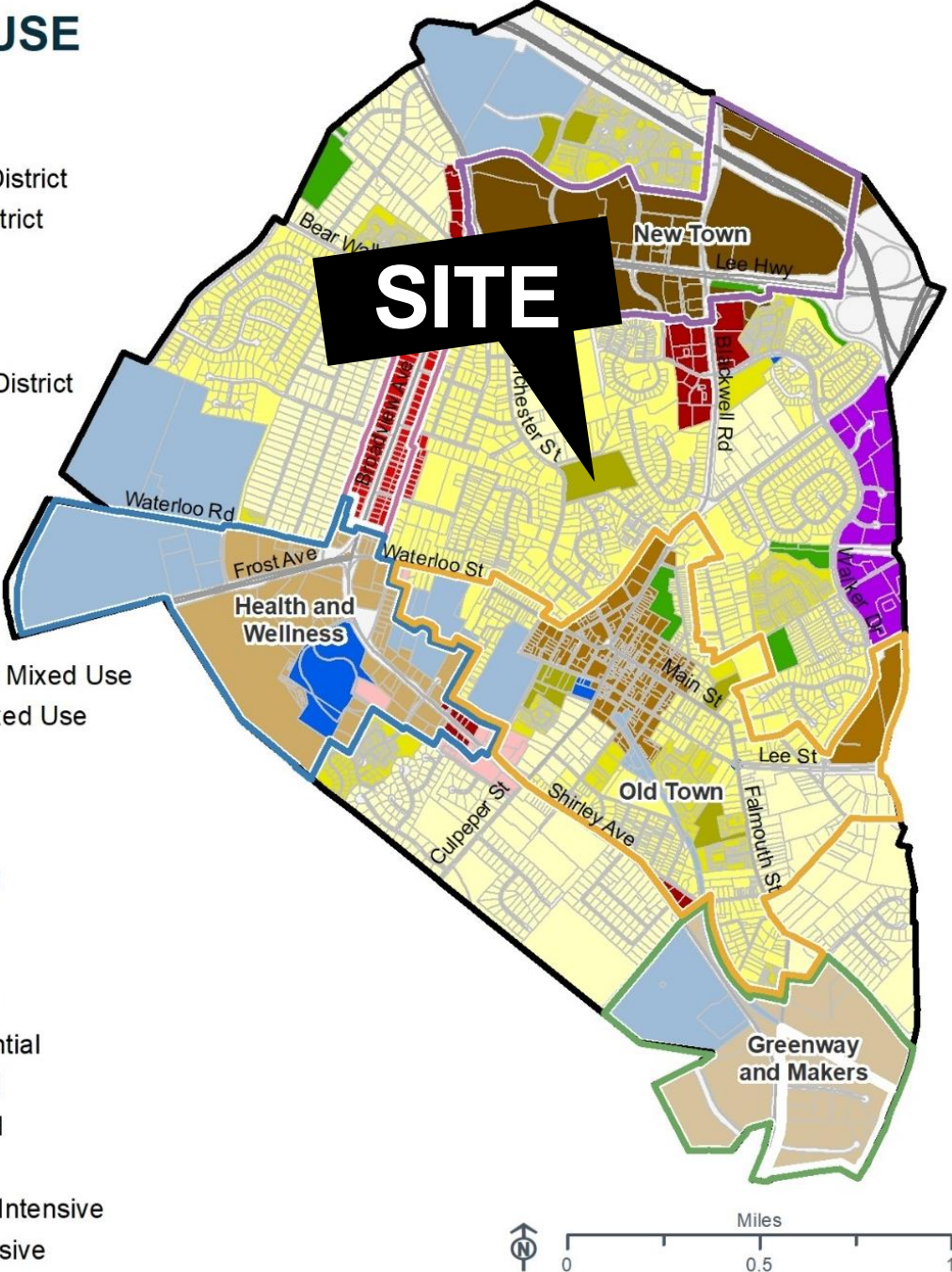
- Greenway and Makers District
- Health and Wellness District
- New Town District
- Old Town District

Overlay Districts

- Broadview Commercial District
- Makers District

Future Land Use

- Greenway and Wellness Mixed Use
- Health and Wellness Mixed Use
- Old Town Mixed Use
- New Town Mixed Use
- Office
- Re-Planned Commercial
- Commercial
- Light Industrial
- Low Density Residential
- Medium Density Residential
- High Density Residential
- Live-Work Neighborhood
- Park
- Public/Semi-Public Non-Intensive
- Public/Semi-Public Intensive



Staff Analysis

This analysis is based on the Comprehensive Plan, Zoning Ordinance, and review comments by Town Departments. The standards/analysis tables in the sections below contain the criteria for Planning Commission and Town Council consideration of Special Use Permits, per Article 11-3.1.3.

This request for a Special Use Permit for St John the Evangelist to amend the exiting 1986 SUP to allow for a new building in accordance with Article 3-4.2 and Article 11-3.10 of the Town Zoning Ordinance. The proposal is to demolish an existing approximately 11,000 square foot building with a new 13,000 square foot building. The property is operating under a Special Use Permit that was approved to allow for a school. The Special Use Permit has not been updated since 1986 to reflect the uses and needs of the property. However, through time, multiple improvements have been made to the property, including the church expanded in 2002/3, modifications to the stone wall in 2007, improvements were done to the Parish Activity Center in 2015, and the school expanded in 2017. This SUP application is the opportunity to update the 11 acres to reflect the proposed new building and provide an accounting stormwater, parking, refuse, open space, and lighting for the uses contained on the parcel.

The following table summarizes the area characteristics (see maps in Attachment A):

Direction	Land Use	Future Land Use Map Designation	Zoning
North	SF Residential	Residential	R-10 Residential
South	SF Residential	Residential	RT Multi-Family
East	SF Residential	Residential	R-10 Residential
West	SF Residential	Residential	R-10 Residential

The subject parcel is zoned to the R-10 Residential District of the Town of Warrenton Zoning Ordinance and is designated as Live Work Neighborhood on the Future Land Use Map. The subject parcel (GPIN 6984-36-7135-000) is located at 271 Winchester Street on approximately 11.0664 acres.

Comprehensive Plan Future Land Use and Historic Resources Analysis

Plan Warrenton 2040 labels this parcel in the Future Land Use Map is designated as Live Work outside of a Character District. It is also located within the Historic District. The Historic District goals state:

- Conserve, reuse, and promote historic resources to enhance the Town’s sense of place and grow the economy.
- Preserve the authenticity and tell the stories of historic resources for generations to come through documentation. Educate the community on the value of historic resources.
- Enhance the environment through preservation and sustainability best practices.

- Protect the rich histories of existing neighborhoods.
- Promote asset-based economic development through historic resources.

Standard	Analysis
<i>Whether the proposed Special Use Permit is consistent with the Comprehensive Plan.</i>	The proposed use falls within the future land use designation of Live Work as listed in the Comprehensive Plan and is located within the Historic District.
<i>The compatibility of the proposed use with other existing or proposed uses in the neighborhood, and adjacent parcels.</i>	The church property is adjacent to existing residential single-family homes. A church and school are permissible uses within the Residential R-10 zoning district, requiring a Special Use Permit.

Staff Findings

The historical survey of the existing building found it to be non-contributing. The applicant has held a work session with the Architectural Review Board to begin the process of discussion for the new building scale, massing, and materials. A Condition of Approval for the SUP addresses the need to obtain a Certificate of Appropriateness. The applicant intends to develop a building up that meets new building codes, in keeping with the context and character of the area.

Zoning Analysis

The legislative intent of the Residential R-10 District is this district is composed of certain low concentrations of residential uses, plus certain open space areas where similar development would be consistent with the provisions of the Town’s Comprehensive Plan. The regulations of this district are designed to stabilize and protect the essential characteristics of the district and promote and encourage suitable environment for single-family residential units and prohibit all activities of a commercial nature, except neighborhood professional businesses. To these ends, development in low density single unit dwellings, plus certain compatible uses by special use permit.

Standard	Analysis
<i>The level and impact of any noise emanating from the site, including that generated by the proposed use, in relation to the uses in the immediate area.</i>	The proposed use is adjacent to existing residential single-family detached dwellings. All non-residential uses must meet the noise standards under Article 9-14.2. No change of use is proposed.
<i>The proposed location, lighting and type of signs in relation to the proposed use, uses in the area, and the sign requirements of this Ordinance.</i>	The applicant has not proposed any new signage with the new building.

Standard	Analysis
<p><i>The location and area footprint with dimensions (all drawn to scale), nature and height of existing or proposed buildings, structures, walls, and fences on the site and in the neighborhood.</i></p>	<p>An SUP plan has been provided showing the location of the existing church, associated accessory buildings and proposed office building.</p> <p>The proposed 3-story office building is noted at 13,000 square feet. The plan shows an existing church, 1-story school, rectory, and 1 story building with a basement.</p> <p>There is an existing retaining wall located at the northwestern corner of the property, and a proposed retaining wall is noted along the proposed office building. The applicant states “the proposed building height will be approximately 35’ or less” based on a calculation using the average proposed grade along the outside of the building. The applicant states “variations in the final site grading will change the building height calculation.”</p> <p>The ARB will review the retaining wall to ensure compliance with the Historic District.</p>
<p><i>The nature and extent of existing or proposed landscaping, screening and buffering on the site and in the neighborhood.</i></p>	<p>No new landscaping detail is proposed on the SUP Plan, except a call out for the area around the existing retaining wall. Staff has indicated to the applicant that as presented it does not meet the ordinance requirements, which will be required at time of site plan submission</p>
<p><i>The timing and phasing of the proposed development and the duration of the proposed use.</i></p>	<p>Timing of construction will depend on receiving site plan approval. The applicant has proposed a condition that would call for the demolition of the existing building prior to final occupancy of the new building.</p>
<p><i>Whether the proposed Special Use Permit at the specified location will contribute to or promote the welfare or convenience of the public.</i></p>	<p>The additional office space may allow the church to better serve the community. Updating the Conditions of Approval to address stacking in the public right-of-way will promote safety on John E. Mann Street.</p>
<p><i>Whether, in the case of existing structures proposed to be converted to uses requiring a Special Use Permit, the structures meet all code requirements of the Town of Warrenton.</i></p>	<p>Any new structures will be required to meet current codes.</p>

Standard	Analysis
<i>The location, character, and size of any outdoor storage.</i>	No outdoor storage is shown on the SUP plan.
<i>The location of any major floodplain and steep slopes.</i>	No floodplain is located on site.
<i>The location and use of any existing non-conforming uses and structures.</i>	The proposed structure must meet all required setbacks and permissible uses should the SUP be granted.
<i>The location and type of any fuel and fuel storage.</i>	No fuel storage areas are noted on site.
<i>The location and use of any anticipated accessory uses and structures.</i>	The office building is proposed to be built at the Northwest corner of the site.
<i>The area of each proposed use.</i>	The proposed area for the new office building is 13,000 square feet.
<i>The location and screening of parking and loading spaces and/or areas.</i>	The applicant has revised the plan to show all existing parking spaces; conformance with the minimum required parking for the use(s) a found in Article 7 will be reviewed in detail as a part of the Site Development Plan. Perimeter parking lot landscaping is required The applicant provided a “Typical Wall and Landscape Detail” on the SUP Plan but it will have to meet ordinance requirements.
<i>The location and nature of any proposed security features and provisions.</i>	Not applicable.
<i>Any anticipated odors which may be generated by the uses on site.</i>	The site must remain in compliance with Article 9-14.5 regarding the control of odors.
<i>Refuse and service areas.</i>	Refuse is identified on the SUP Plan. The Statement of Justification acknowledges conformance with refuse storage requirements will be verified at the time of site plan.
<i>Whether the proposed Special Use Permit will result in the preservation or destruction, loss or damage of any significant topographic or physical, natural, scenic, archaeological or historic feature.</i>	No significant or topographic areas are noted on site.
<i>The effect of the proposed Special Use Permit on environmentally sensitive land or natural features, wildlife habitat and vegetation, water quality and air quality. The location of any major floodplain and steep slopes.</i>	The applicant will address stormwater at time of site plan. The SUP Plan includes topo and general placement of improvements. The applicant stated they do not anticipate blasting.
<i>The glare or light that may be generated by the proposed use in relation to uses in the immediate area.</i>	A condition of approval includes lighting standards for the site and the applicant will be required to meet the ordinance.

Staff Findings

During agency review of the application, staff raised several potential issues and asked the applicant to address them. Highlights of issues include the potential inability to meet landscaping buffer requirements, details on lighting, preliminary stormwater design, proposed refuse locations, and height and dimensions of the building to confirm required setbacks, retaining walls, parking, travelways, and landscape buffers for staff to ensure the proposal will meet requirements. Staff is aware that stormwater and landscape buffer solutions can be expensive to engineer. Staff sought to help the applicant understand that staff cannot ensure this proposal works at Site Development Plan without more information and/or requested waivers.

As part of the agreement between the church for the pre-school expansion in 2017, in an email from Carson Land Consultants to the Town on August 4, 2017, the applicant's engineer confirmed "but if and when St John's does anything else in the future, the land disturbance from this project plus the next will trigger the VPDES permit." The Town engineer responded with the statement "However, when they move to the next phase, we will go back to any upgrade during and after 2014."

Draft Conditions of Approval have been drafted to attempt to address potential stormwater and lighting issues.

Transportation and Circulation Analysis

The Transportation and Circulation goals for the Town of Warrenton are:

- Improve multi-modal capacity and safety that encourages trips by walking, bicycling, and transit. Enhance the traveling experience by creating great streets.
- Promote livability in the Town by creating great places where residents and visitors feel welcome and safe.
- Provide an equitable and connected Multi-Modal Network.

<u>Standard</u>	<u>Analysis</u>
<i>The traffic expected to be generated by the proposed use, the adequacy of access roads and the vehicular and pedestrian circulation elements (on and off-site) of the proposed use, all in relation to the public's interest in pedestrian and vehicular safety, efficient traffic movement and access in case of fire or catastrophe.</i>	The church site is used for multiple uses including a pre-school – 8 th grade school, parish activity center for community events, outdoor managed turf fields, a rectory, and the multi-use office building.
<i>Whether the proposed use will facilitate orderly and safe road development and transportation.</i>	

Staff Findings

The Warrenton Volunteer Fire Department requested consideration of wider access roads, strict enforcement of no parking areas, more fire hydrants, and ensuring flat areas 1/4th of the height of the

building. Community Development staff raised concerns about perimeter parking, understanding of the impervious surface dimensions (e.g. parking and travelways), and information regarding school pick off and drop off to prevent stacking in the public right-of-way. Public Works and Utilities raised the 1986 condition of dedicating the right-of-way to the centerline of Winchester Street. The applicant acknowledged these items and stated they would be addressed at site plan. Staff has worked to try to develop a set of draft conditions of approval to address the right of way, potential maintenance needs and who is responsible for them, and vehicle stacking in the public right-of-way. It should also be noted there is no proposed sidewalk along the frontage of Winchester Street. Normally a subdivision is the trigger for installing a sidewalk. In this case, the applicant is not subdividing the property.

Community Facilities and Environmental Analysis

Plan Warrenton 2040 outlines Community Facilities goals and Environmental goals by stating:

- Green infrastructure and sustainability are incorporated into community facilities to promote energy efficiency and environmental protections.
- Ensure healthy, safe, adequate water and wastewater services.
- Preserve, enhance, and protect the environmental, scenic, and natural quality of the Town.

<u>Standard</u>	<u>Analysis</u>
<i>Whether the proposed Special Use Permit will be served adequately by essential public facilities, services and utilities.</i>	There is an existing water and sewer system on the parcel. The applicant has indicated a potential stormwater management area with a note that stormwater is subject to change with final design on the SUP Plan.
<i>The location of any existing and/or proposed adequate on and off-site infrastructure.</i>	

Staff Findings

The Town Public Works and Utilities Department cannot verify the disturbance work or the erosion and sediment control measures and calculations without more information provided. The applicant was provided information from 2017 site development plan that stated the additional disturbance related to the recently constructed education building (per SDP 2017-01) will be considered accumulative to this new SUP application (per SUP-23-01) and will trigger the Commonwealth’s SWM Regulations, as indicated in General Note 12 of the 2017of the Saint John the Evangelist Roman Catholic Church SDP sheet 2. Public Works and Utilities also informed the applicant that at least a 10% reduction in runoff and nutrients from the site. Per February 2, 2017, memorandum (SDP 2017-01 St. John’s Catholic Church Pre-School Addition letter), the additional disturbance will be considered accumulative to this SUP application and will trigger the Commonwealth’s SWM Regulations, as indicated in General Note 12 of the 2017of the Saint John the Evangelist Roman Catholic Church SDP sheet 2. Further concern from Public Works is the site plan must ensure that the existing drainage on Winchester Street has adequate capacity to convey drainage from this improved site.

Public Works requested a Stormwater Master Plan for the site showing how stormwater is proposed to leave the site and how it meets the Stormwater Town’s Ordinance criteria. This relates to the recently constructed education building (per SDP 2017-01) and the proposed new building. Staff is unable to ensure all these concerns have been addressed until more detail is provided at site plan.

The applicant states they will address all outstanding issues at time of Site Development Plan.

Economic Resources Analysis

An economic goal of Plan Warrenton 2040 is to promote a diverse, equitable stable tax base while preserving the character of the community.

<u>Standard</u>	<u>Analysis</u>
<i>Whether the proposed Special Use Permit use will provide desirable employment and enlarge the tax base by encouraging economic development activities consistent with the Comprehensive Plan.</i>	The proposed use does not change the existing uses on the property.
<i>The number of employees.</i>	Unknown. Students is capped at 540.
<i>The proposed days/hours of operation.</i>	Unknown.

Staff Findings

The proposal does not change the existing economic use of the site.

Conditions of Approval

The Planning Commission recommended conditions of approval for the Town Council’s consideration.

SPECIAL USE PERMIT PLAT

ST JOHN THE EVANGELIST CATHOLIC CHURCH

SUP 2023-1 (AMENDMENT TO SUP DATED JUNE 3, 1986)

271 WINCHESTER STREET

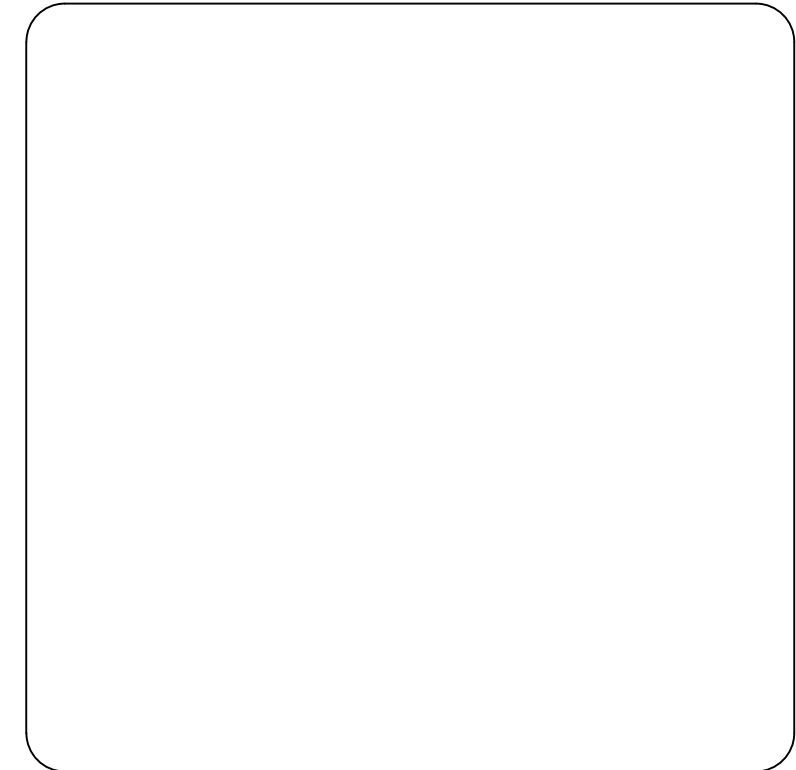
TOWN OF WARRENTON

FAUQUIER COUNTY, VIRGINIA

FEBRUARY 10, 2023

LAST REVISED: MAY 30, 2023

APPROVAL BLOCK



LEGEND	
Q	CENTERLINE
CO	CLEANOUT
EX	EXISTING
HC	HANDICAPPED
EP	EDGE OF PAVEMENT
S/C	SIAMESE YARD CONNECTION
IPS	IRON PIPE SET
IPF	IRON PIPE FOUND
RET	RETAINING
PKS	PK-NAIL SET
DHS	DRILL HOLE MADE
CONC	CONCRETE
CONN	CONNECTION
TELE	TELEPHONE
STM STR	STORM SEWER STRUCTURE
STM MH	STORM SEWER MANHOLE
SAN MH	SANITARY SEWER MANHOLE
ELEC TRANS	ELECTRIC TRANSFORMER
O	WATER VALVE UNLESS NOTED
Q	SIGN
⊕	FIRE HYDRANT
⊕	LIGHT OR UTILITY POLE
FC	FACE OF CURB
7	NUMBER OF PARKING SPACES
1 LS	NUMBER OF LOADING SPACES
5 HC	NUMBER OF HANDICAP SPACES
---	PROPERTY OR RW LINES
---	CENTERLINE
---	EASEMENT LINE
---	EXISTING TRAVEL WAY/ EDGE OF PAVEMENT
---	PROPOSED EDGE OF PAVEMENT
---	EXISTING CURB AND GUTTER
---	PROPOSED CURB AND GUTTER
---	FENCE LINE
---	ROADSIDE DELINEATORS
---	RAILROAD
---	ADJACENT PROPERTY OWNERS
---	EXISTING CULVERT OR STORM LINE
---	PROPOSED CULVERT OR STORM LINE
---	STORM SEWER (PROPOSED BY OTHERS)
---	EXISTING WATERLINE
---	PROPOSED WATERLINE
---	WATERLINE (PROPOSED BY OTHERS)
---	EXISTING FIRE HYDRANT
---	PROPOSED FIRE HYDRANT
---	EXISTING SANITARY SEWER
---	PROPOSED SANITARY SEWER
---	SANITARY SEWER (PROPOSED BY OTHERS)
---	EXISTING GAS LINE
---	PROPOSED GAS LINE
---	EXISTING OVERHEAD TELEPHONE
---	EXISTING OVERHEAD ELECTRIC
---	EXISTING OVERHEAD TELEPHONE & ELECTRIC
---	EXISTING UNDERGROUND TELEPHONE
---	EXISTING UNDERGROUND ELECTRIC
---	EXISTING RETAINING WALL
---	PROPOSED RETAINING WALL
---	EXISTING POWER OR TELEPHONE POLE
---	LIGHT POLE
---	EXISTING CONTOUR W/ ELEVATION
---	PROPOSED CONTOUR W/ ELEVATION
---	EXISTING SPOT ELEVATION
---	PROPOSED SPOT ELEVATION
---	EARTH DEPRESSION
---	DITCH, SWALE, STREAM OR SPRING
---	SWAMP OR MARSH AREA
---	DRAINAGE DIVIDE
---	PATH (DIRT, GRAVEL, CRUSHED STONE, ETC.)
---	TREE LINE
---	LIMITS OF CLEARING & GRADING
---	NORTH ARROW
---	TREES AND SHRUBS
---	STD. VDOT CG-12, CURB RAMP
---	PROPOSED CONCRETE
---	PROPOSED GRAVEL
---	PROPOSED UNDERDRAIN

ADJACENT OWNERS

6984-45-0901-000
MANN, FAYE A/K/A, MANN, FAYE O
101 JOHN E MANN ST
WARRENTON VA 20186
BK 265 / PG 1584
ZONING: R-10

6984-45-1877-000
ELLIOTT, KELSEY A
216 ROBINSON ST
WARRENTON VA 20186
BK 1453 / PG 2270
ZONING: R-10

6984-45-2940-000
JAMES, CHERYL M
220 ROBINSON ST
WARRENTON VA 20186
BK 1458 / PG 1263
ZONING: R-10

6984-45-3912-000
PAYNE, MICHELLE A TRUSTEE;
PAYNE, MICHELLE ANN TRUST;
PAYNE, STEVEN C TRUSTEE;
PAYNE, STEVEN CARL TRUST
232 ROBINSON ST
WARRENTON VA 20186
BK 1587 / PG 69
ZONING: R-10

6984-46-1478-000
DEMBOVSKI, CHANTHELLE;
PEPIN, THOMAS G
348 PRESTON DR
WARRENTON VA 20186
BK 1594 / PG 1231
ZONING: R-10

6984-46-2402-000
CHESLEY, COLLEEN M;
CHESLEY, MICHAEL R
340 PRESTON DR
WARRENTON VA 20186
BK 1203 / PG 234
ZONING: R-10

6984-46-2324-000
MUSSER, COURTNEY CANFIELD
332 PRESTON DR
WARRENTON VA 20186
BK 1587 / PG 2406
ZONING: R-10

6984-46-2257-000
BARAHONA, ANGEL E, BARAHONA,
JHESSY CRYSL LAGUNA DE
324 PRESTON DR
WARRENTON VA 20186
BK 1209 / PG 1125
ZONING: R-10

6984-46-2280-000
EVANS, LIDA FULFORD
316 PRESTON DR
WARRENTON VA 20186
BK 1197 / PG 2207
ZONING: R-10

6984-46-3113-000
FAZENBAKER, ROBERT EUGENE;
STAFFORD, ANNALISA
308 PRESTON DR
WARRENTON VA 20186
BK 1321 / PG 2263
ZONING: R-10

6984-46-3056-000
WRIGHT, ANDREA J, WRIGHT, JOHN C
300 PRESTON DR
WARRENTON VA 20186
BK 1440 / PG 1211
ZONING: R-10

6984-36-9591-000
CHIPMAN, ALBERT W III;
CHIPMAN, KAREN S
287 WINCHESTER ST
WARRENTON VA 20186
BK 1249 / PG 2301
ZONING: R-10

6984-36-9684-000
CHIPMAN, ALBERT W III;
CHIPMAN, KAREN S
289 WINCHESTER ST
WARRENTON VA 20186
BK 1171 / PG 2455
ZONING: R-10

PARKING TABULATION

IN ACCORDANCE WITH ARTICLE 7 OF THE TOWN OF WARRENTON ZONING ORDINANCE THE PARKING REQUIRED FOR THE SITE ARE AS FOLLOWS:

CHURCH: ONE (1) SPACE PER FOUR (4) SEATS DESIGN CAPACITY OF THE PRINCIPLE PLACE OF WORSHIP
SCHOOL: ONE (1) SPACE PER TWENTY-FIVE (25) CLASSROOM SEATS PLUS ONE (1) PER EMPLOYEE CALCULATED FOR THE WORK PERIOD CONTAINING THE LARGEST NUMBER OF EMPLOYEES.

REQUIREMENTS

CHURCH = 793 SEATS (PER APPROVED AMENDED SITE PLAN)
PARKING REQUIRED: 750 SEATS / 4 = 187.5 = 188 SPACES
HC PARKING REQUIRED: 7 SPACES (PER ADA)

PRESCHOOL = 100 CLASSROOM SEATS / 25 = 4 SPACES
12 EMPLOYEES = 12 SPACES
= 16 SPACES TOTAL

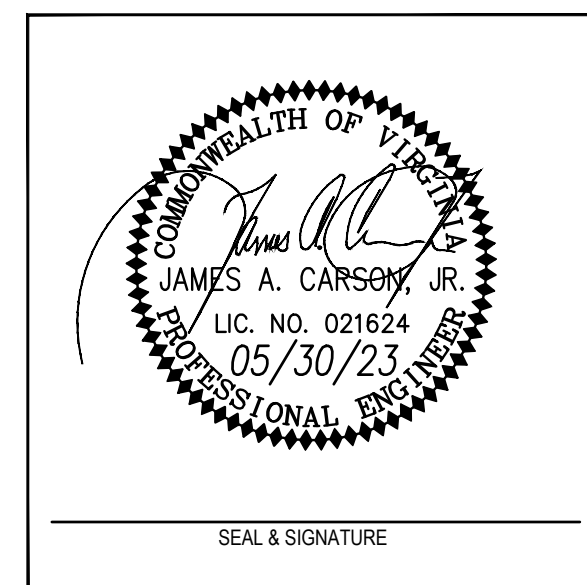
ST. JOHN'S SCHOOL (K-8) = 250 CLASSROOM SEATS / 25 = 10 SPACES
30 EMPLOYEES = 30 SPACES
= 40 SPACES

TOTAL NUMBER OF PARKING SPACES REQUIRED:
CHURCH 188
PRE-SCHOOL 16
SCHOOL 40
SPACES 244

TOTAL NUMBER OF PARKING SPACES PROVIDED: 244 SPACES PROVIDED (CURRENTLY)
TOTAL NUMBER OF PARKING SPACES PROVIDED: 277 SPACES PROPOSED (WITH THIS SUP AMENDMENT)

TOTAL CHANGE WITH THIS SUP AMENDMENT: ADDITION OF 229 SPACES (SUBJECT TO CHANGE)

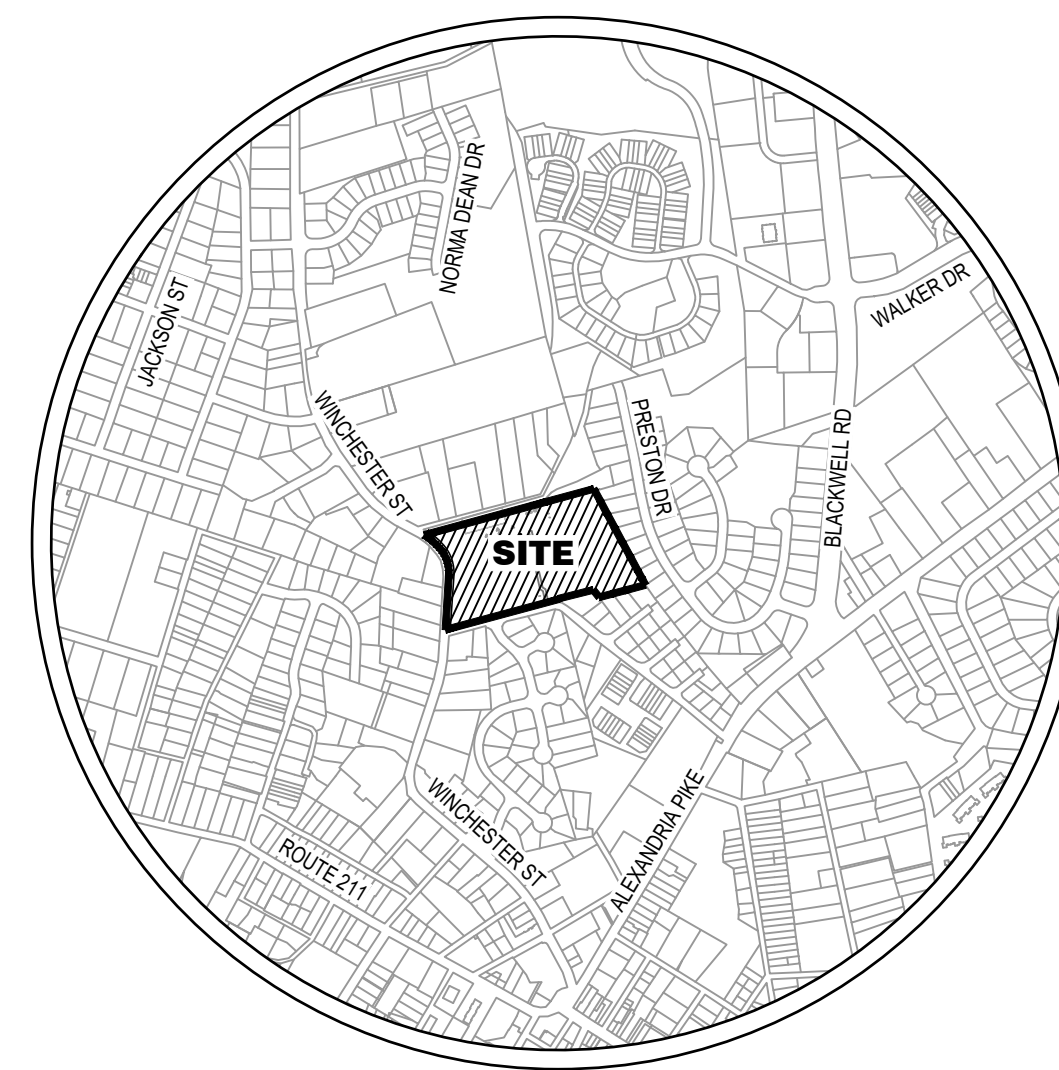
NOT FOR CONSTRUCTION
UNDER REVIEW



ENGINEER'S CERTIFICATE

I, JAMES A. CARSON, JR., A LICENSED PROFESSIONAL ENGINEER IN THE COMMONWEALTH OF VIRGINIA, DO HEREBY CERTIFY THAT THE PROPERTIES UPON WHICH THIS SITE PLAN IS PROPOSED LIE IN THE NAME OF ST. JOHN'S CATHOLIC SCHOOL TEES, AS FOUND AMONG THE LAND RECORDS OF FAUQUIER COUNTY, VIRGINIA, IN DEED BOOK 205, PAGE 59.

JAMES A. CARSON, JR. P.E. NO. 021624



VICINITY MAP

SCALE 1"= 100'

SHEET INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	EXISTING CONDITIONS PLAN
3	SPECIAL USE PERMIT PLAT
4	BUILDING ELEVATIONS
4	TOTAL NUMBER OF SHEETS IN PLAN

GENERAL NOTES

- PROJECT DESCRIPTION: THIS PROJECT PROPOSES THE CONSTRUCTION OF AN APPROXIMATELY 13,000 SQUARE FOOT, THREE FLOOR OFFICE BUILDING, SIDEWALK, SITE GRADING AND PARKING LOT IMPROVEMENTS ARE ALSO A PART OF THE PROPOSED PROJECT. APPROXIMATE 0.90 ACRE WILL BE DISTURBED DURING THE CONSTRUCTION OF THE PROJECT.
- PINS: 6984-36-7135-000
- ACREAGE: 11.0664 AC
- CURRENT USE: CHURCH, SCHOOL
- PROPOSED USE: CHURCH, SCHOOL
- OWNERS/APPLICANT: ST. JOHN'S CATHOLIC SCHOOL TEES
271 WINCHESTER STREET
WARRENTON VIRGINIA 20186
DEED BOOK 205, PAGE 59
- ZONING: RESIDENTIAL (R-10)
- ZONING REQUIREMENTS:
MINIMUM LOT AREA: 10,000 SQ. FT
MINIMUM LOT FRONTAGE: 75 FEET
FRONT SETBACK:
MINIMUM 25 FEET
SIDE SETBACKS: 15 FEET
REAR SETBACK: 20 FEET
MAXIMUM LOT COVERAGE: 65% IMPERVIOUS SURFACE
MAXIMUM BUILDING HEIGHT: 35 FEET
- TOPOGRAPHIC INFORMATION FIELD RUN BY CARSON LAND CONSULTANTS.
CONTOUR INTERVAL: 2 FT
DATUM: NAVD 88
- THE SUBJECT PROPERTY IS LOCATED ON FEMA FLOOD INSURANCE RATE MAP, COMMUNITY-PANEL NUMBER 51061C 0306 C, DATED FEB. 6, 2008. THE PROPERTY IS LOCATED IN ZONE "X". THIS DOES NOT CONSTITUTE A FLOOD STUDY BY THIS FIRM.
- STORMWATER MANAGEMENT WILL BE ADDRESSED WITH FINAL SITE DEVELOPMENT PLAN. THE PROPOSED OFFICE BUILDING AND ASSOCIATED PARKING AND CIRCULATION IMPROVEMENTS WILL BE TREATED AS A COMMON PLAN OF DEVELOPMENT. STORMWATER MANAGEMENT WILL BE ADDRESSED BY A COMBINATION OF ON-SITE TREATMENT WITH STRUCTURAL BMPs SUCH AS BIORETENTION, DETENTION, AND/OR PURCHASE OF OFF-SITE NUTRIENT CREDITS. AS CONSULT WITH THE TOWN WILL BE REQUIRED TO DETERMINE AND APPROVE ALLOWABLE DISCHARGE INTO THE EXISTING STORM SEWER SYSTEM. THE LOCATION AND ORIENTATION OF ON-SITE FACILITIES WILL BE DETERMINED WITH THE SITE DEVELOPMENT PLANS. LOCATION AND SIZE HAVE NOT BEEN INDICATED ON THIS PLAN AS SUBSTANTIAL COMPLIANCE WITH THE SUP AMENDMENT LAYOUT WOULD BE REQUIRED. PLANS FOR STORMWATER MANAGEMENT ARE TENTATIVE AND SUBJECT TO CHANGE.

SPECIAL USE PERMIT PLAT
ST JOHN THE EVANGELIST CATHOLIC CHURCH
SUP 2023-1 (AMENDMENT TO SUP DATED JUNE 3, 1986)
271 WINCHESTER STREET
TOWN OF WARRENTON
FAUQUIER COUNTY, VIRGINIA
FEBRUARY 10, 2023
LAST REVISED: MAY 30, 2023



NOT FOR CONSTRUCTION

SAINT JOHN THE EVANGELIST CATHOLIC CHURCH
WARRENTON, VA

FAUQUIER COUNTY VIRGINIA

CENTER MAGISTERIAL DISTRICT

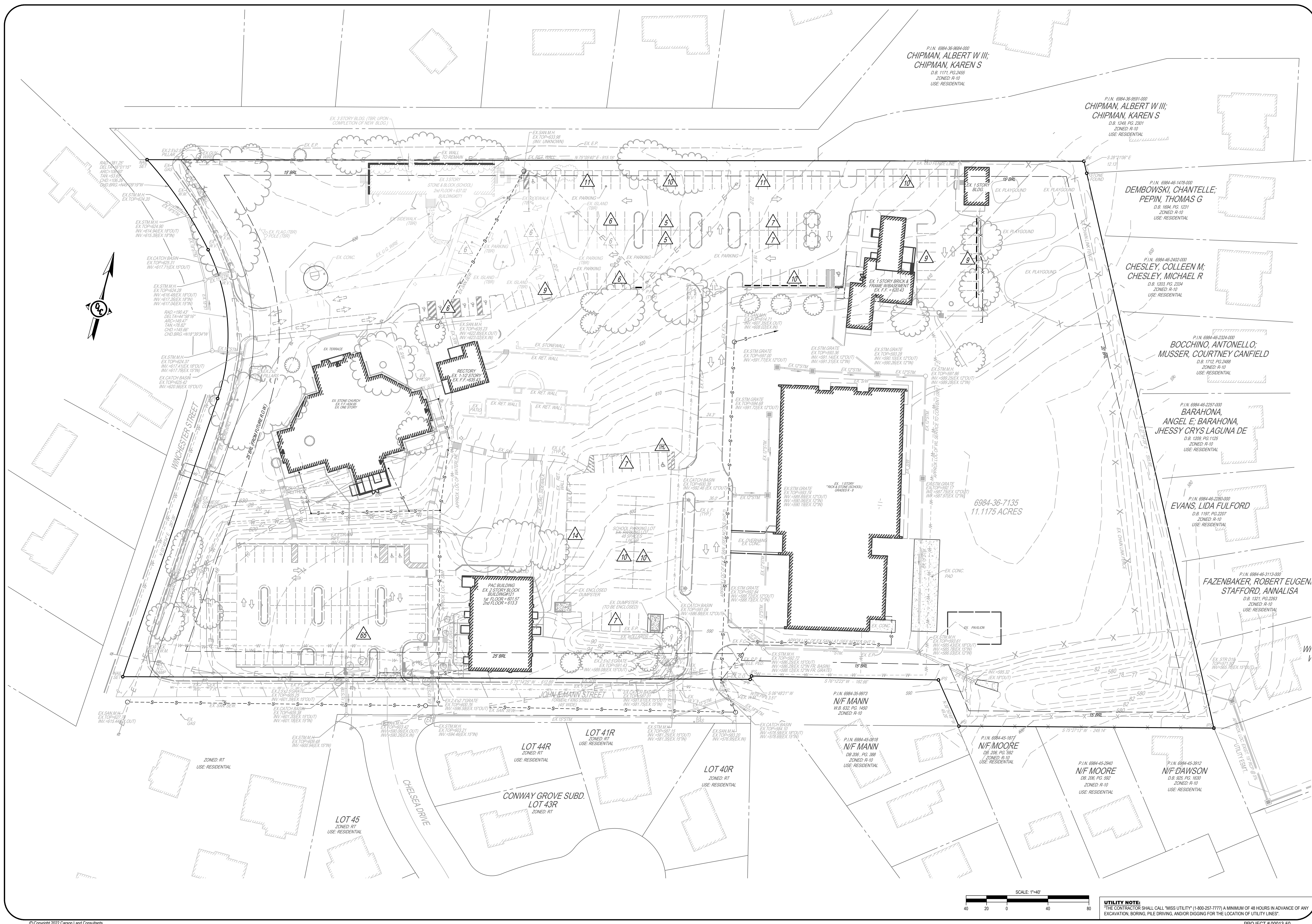
REVISIONS
DESCRIPTION DATE
TOWN COMMENTS 04/27/23
TOWN COMMENTS 05/30/23

ENGINEER'S SEAL
COMMONWEALTH OF VIRGINIA
JAMES A. CARSON, JR.
LIC. NO. 021624
05/30/23
PROFESSIONAL SEAL

EXISTING CONDITIONS PLAN

DATE: 12/6/22
SCALE: 1"=40'
SHEET 2 OF 4

SAINT JOHN'S OFFICE BUILDING



P.I.N. 6984-36-8884-000
CHIPMAN, ALBERT W III;
CHIPMAN, KAREN S
D.B. 1171, PG.2455
ZONED: R-10
USE: RESIDENTIAL

P.I.N. 6984-36-8891-000
CHIPMAN, ALBERT W III;
CHIPMAN, KAREN S
D.B. 1249, PG.2307
ZONED: R-10
USE: RESIDENTIAL

P.I.N. 6984-46-1478-000
DEMBOWSKI, CHANTELE;
PEPIN, THOMAS G
D.B. 1694, PG.1231
ZONED: R-10
USE: RESIDENTIAL

P.I.N. 6984-46-2402-000
CHESLEY, COLLEEN M;
CHESLEY, MICHAEL R
D.B. 1203, PG.2334
ZONED: R-10
USE: RESIDENTIAL

P.I.N. 6984-46-2324-000
BOCCHINO, ANTONELLO;
MUSSER, COURTNEY CANFIELD
D.B. 1712, PG.2488
ZONED: R-10
USE: RESIDENTIAL

P.I.N. 6984-46-2257-000
BARAHONA,
ANGEL E. BARAHONA,
JHESSY CRYSLAGUNA DE
D.B. 1308, PG.1125
ZONED: R-10
USE: RESIDENTIAL

P.I.N. 6984-46-2280-000
EVANS, LIDA FULFORD
D.B. 1197, PG.2207
ZONED: R-10
USE: RESIDENTIAL

P.I.N. 6984-46-3113-000
FAZENBAKER, ROBERT EUGEN,
STAFFORD, ANNALISA
D.B. 1321, PG.2263
ZONED: R-10
USE: RESIDENTIAL

P.I.N. 6984-35-8973
N/F MANN
D.B. 632, PG. 1450
ZONED: R-10
USE: RESIDENTIAL

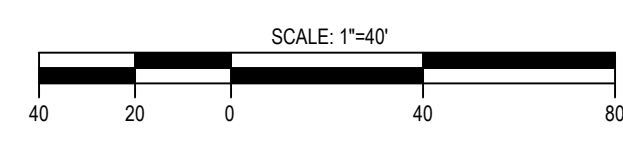
P.I.N. 6984-45-2818
N/F MANN
D.B. 206, PG. 592
ZONED: R-10
USE: RESIDENTIAL

P.I.N. 6984-45-1977
N/F MOORE
D.B. 206, PG. 592
ZONED: R-10
USE: RESIDENTIAL

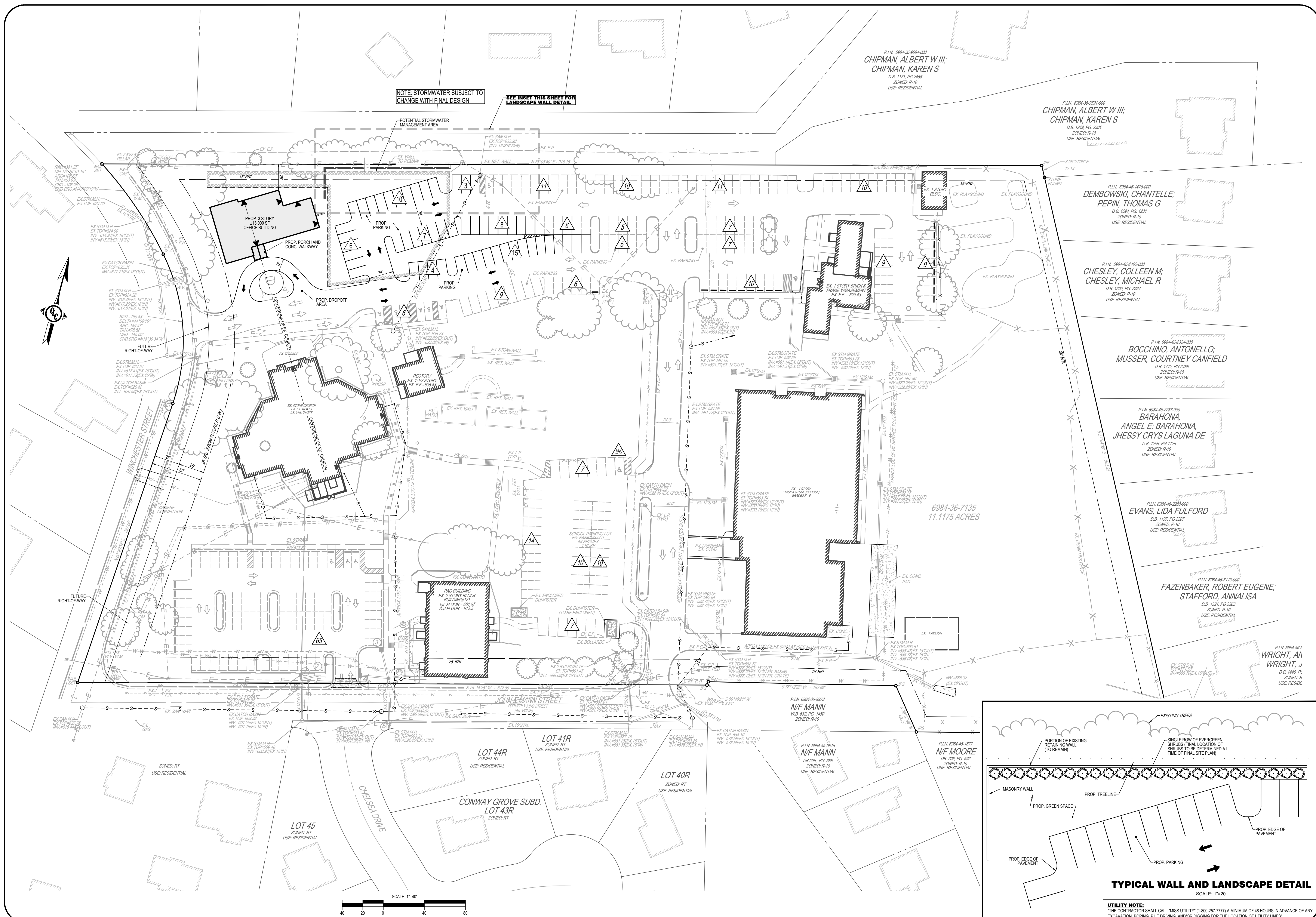
P.I.N. 6984-45-2940
N/F MOORE
D.B. 325, PG. 1630
ZONED: R-10
USE: RESIDENTIAL

P.I.N. 6984-45-3912
N/F DAWSON
D.B. 325, PG. 1630
ZONED: R-10
USE: RESIDENTIAL

6984-36-7135
11.1175 ACRES



UTILITY NOTE:
THE CONTRACTOR SHALL CALL "MISS UTILITY" (1-800-257-7777) A MINIMUM OF 48 HOURS IN ADVANCE OF ANY EXCAVATION, BORING, PILE DRIVING, AND/OR DIGGING FOR THE LOCATION OF UTILITY LINES.



NOTE: STORMWATER SUBJECT TO CHANGE WITH FINAL DESIGN
SEE INSET THIS SHEET FOR LANDSCAPE WALL DETAIL

P.I.N. 6984-36-9884-000
CHIPMAN, ALBERT W III;
CHIPMAN, KAREN S
D.B. 1171, PG.2455
ZONED: R-10
USE: RESIDENTIAL

P.I.N. 6984-36-991-000
CHIPMAN, ALBERT W III;
CHIPMAN, KAREN S
D.B. 1249, PG. 2301
ZONED: R-10
USE: RESIDENTIAL

P.I.N. 6984-45-1478-000
DEMBOWSKI, CHANTELE;
PEPIN, THOMAS G
D.B. 1694, PG. 1231
ZONED: R-10
USE: RESIDENTIAL

P.I.N. 6984-45-2402-000
CHESLEY, COLLEEN M;
CHESLEY, MICHAEL R
D.B. 1331, PG. 2334
ZONED: R-10
USE: RESIDENTIAL

P.I.N. 6984-45-2324-000
BOCCHINO, ANTONELLO;
MUSSER, COURTNEY CANFIELD
D.B. 1712, PG.2488
ZONED: R-10
USE: RESIDENTIAL

P.I.N. 6984-45-2257-000
BARAHONA,
ANGEL E; BARAHONA,
JHESSY CRYSLAGUNA DE
D.B. 1209, PG. 1125
ZONED: R-10
USE: RESIDENTIAL

P.I.N. 6984-45-2280-000
EVANS, LIDA FULFORD
D.B. 1197, PG. 2207
ZONED: R-10
USE: RESIDENTIAL

P.I.N. 6984-45-3113-000
FAZENBAKER, ROBERT EUGENE;
STAFFORD, ANNALISA
D.B. 1321, PG.2263
ZONED: R-10
USE: RESIDENTIAL

P.I.N. 6984-45-3
WRIGHT, J
WRIGHT, AN
D.B. 1440, PG.
ZONED: R
USE: RESIDE

P.I.N. 6984-35-9973
N/F MANN
W.B. 632, PG. 1450
ZONED: R-10

P.I.N. 6984-45-0919
N/F MOORE
D.B. 206, PG. 388
ZONED: R-10
USE: RESIDENTIAL

P.I.N. 6984-45-1877
N/F MOORE
D.B. 206, PG. 392
ZONED: R-10
USE: RESIDENTIAL

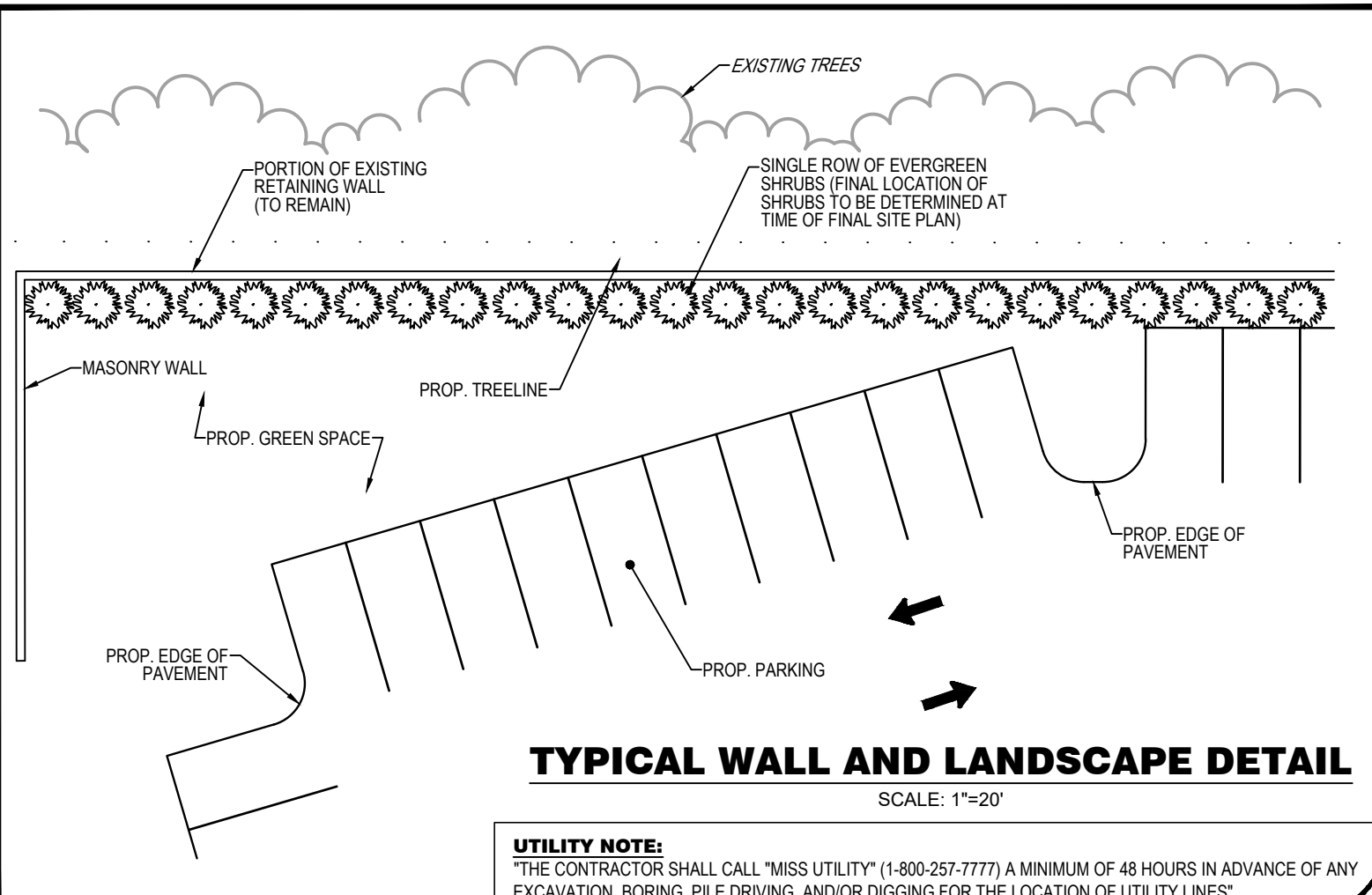
LOT 41R
ZONED: RT
USE: RESIDENTIAL

LOT 40R
ZONED: RT
USE: RESIDENTIAL

LOT 44R
ZONED: RT
USE: RESIDENTIAL

CONWAY GROVE SUBD.
LOT 43R
ZONED: RT

LOT 45
ZONED: RT
USE: RESIDENTIAL



TYPICAL WALL AND LANDSCAPE DETAIL
SCALE: 1"=2'0"

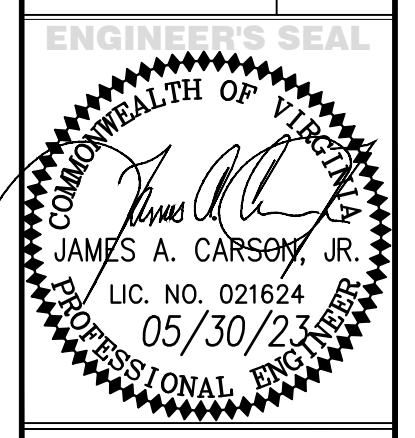
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THE CONTRACTOR SHALL CALL "MISS UTILITY" (1-800-257-7777) A MINIMUM OF 48 HOURS IN ADVANCE OF ANY EXCAVATION, BORING, PILE DRIVING, AND/OR DIGGING FOR THE LOCATION OF UTILITY LINES.

NOT FOR CONSTRUCTION

SAINT JOHN THE EVANGELIST
CATHOLIC CHURCH
WARRENTON, VA

CENTER MAGISTERIAL DISTRICT
FAUQUIER COUNTY VIRGINIA

REVISIONS	
DESCRIPTION	DATE
TOWN COMMENTS	04/27/23
TOWN COMMENTS	04/27/23
TOWN COMMENTS	05/09/23



SPECIAL USE PERMIT PLAT

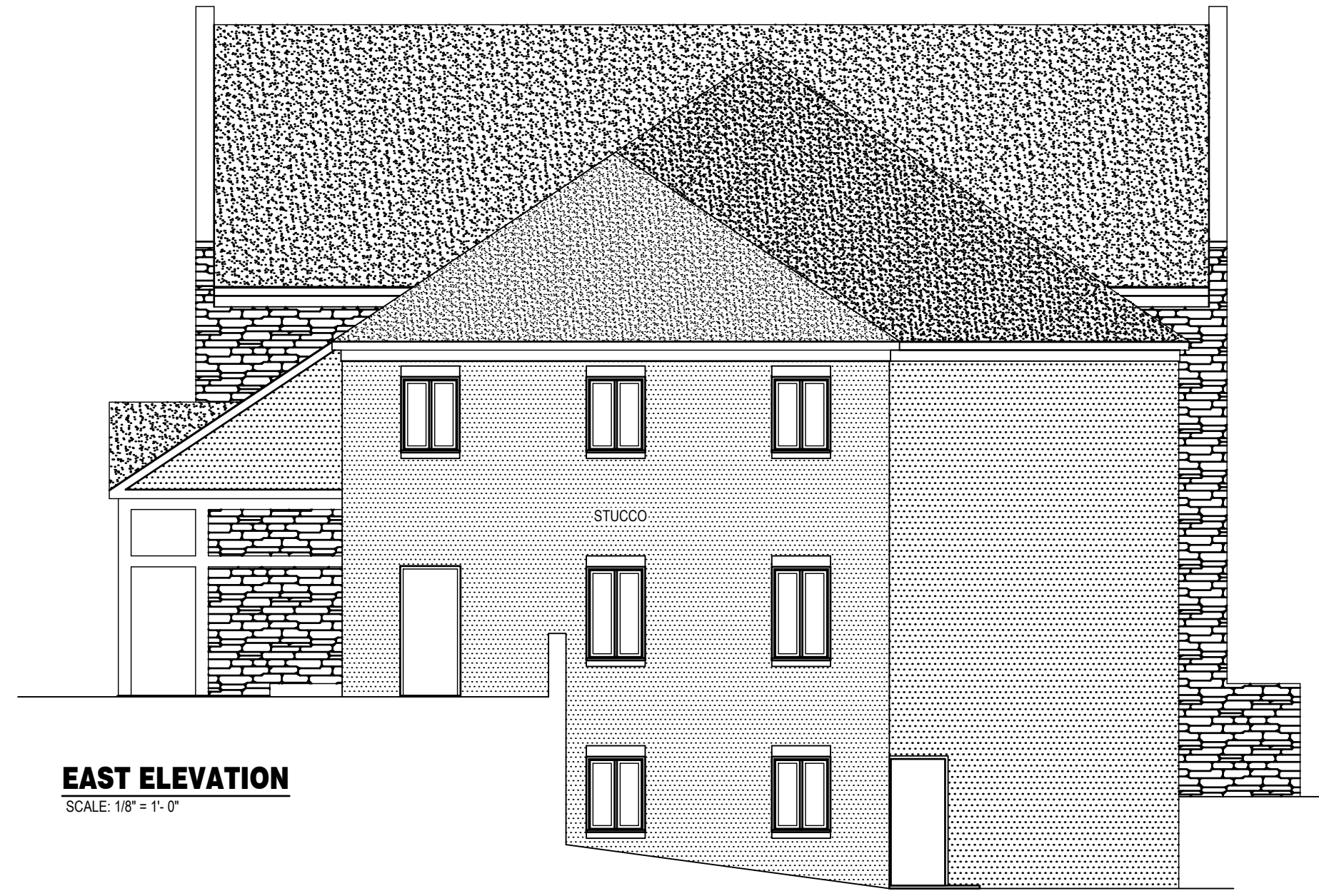
DATE:	12/6/22
SCALE:	1"=40'
SHEET	3
	OF 4

NOT FOR CONSTRUCTION

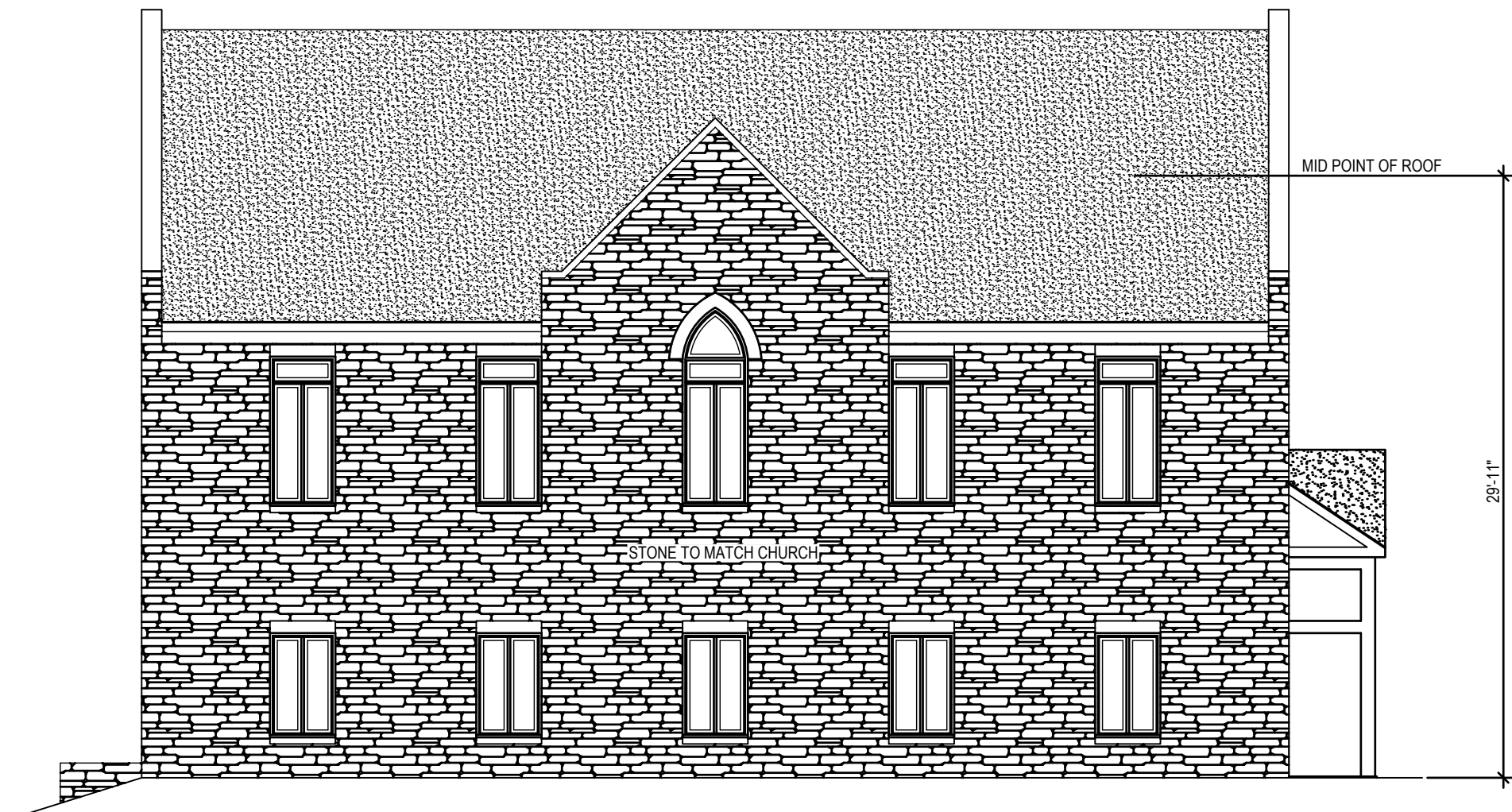
FAUQUIER COUNTY VIRGINIA

**SAINT JOHN THE EVANGELIST
 CATHOLIC CHURCH**
 WARRENTON, VA

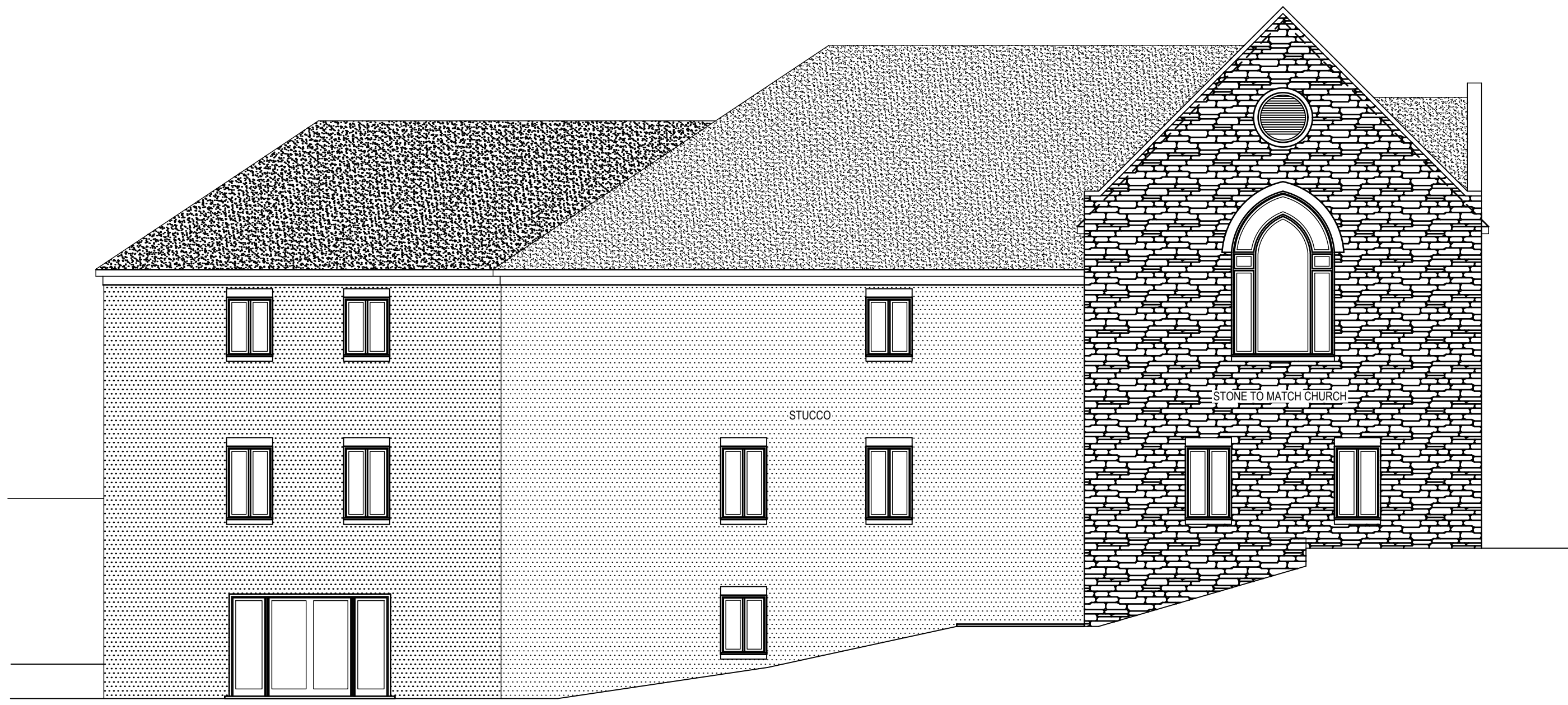
CENTER MAGISTERIAL DISTRICT



EAST ELEVATION
SCALE: 1/8" = 1'-0"



WEST ELEVATION - FACING WINCHESTER STREET
SCALE: 1/8" = 1'-0"

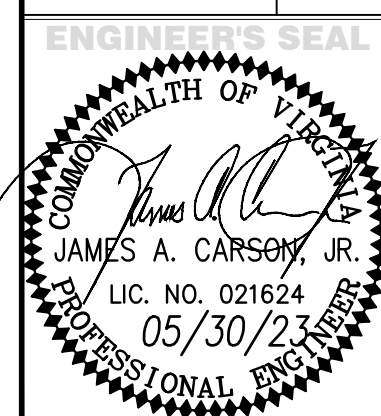


NORTH ELEVATION
SCALE: 1/8" = 1'-0"



SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

REVISIONS	
DESCRIPTION	DATE
TOWN COMMENTS	03/27/23
TOWN COMMENTS	04/27/23
TOWN COMMENTS	05/30/23



BUILDING ELEVATIONS

DATE:	12/6/22
SCALE:	1"=20'
SHEET	4
	OF 4

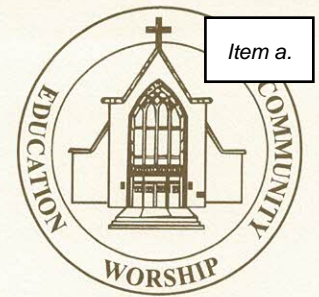
UTILITY NOTE:
 "THE CONTRACTOR SHALL CALL "MISS UTILITY" (1-800-257-7777) A MINIMUM OF 48 HOURS IN ADVANCE OF ANY EXCAVATION, BORING, PILE DRIVING, AND/OR DIGGING FOR THE LOCATION OF UTILITY LINES"

P:\00013\500 - Office Building\Engineering\Special Permit Plan\Presentation Drawings\00013-50_Special Permits.dwg, 6/7/2023 11:14:33 AM



SAINT JOHN THE EVANGELIST CHURCH

271 Winchester Street
Warrenton, Virginia 20186
(540) 347-2922



Statement of Justification

The church has an existing Special Use Permit for all the current uses on this property and has been operating on this site for 63 years. No new use is being requested. The church would like to demolish the existing cinder block office building and replace it with a new office building of similar size. The existing building was constructed as classroom and dormitory space in the early '40's and is located right on the property line abutting a residential neighborhood with no setback. The church has worked for the past two years to develop a plan to renovate the existing building to make it ADA accessible, install central HVAC, and manipulate the configuration to accommodate the modern needs of the church, but the cost was tremendous and given the shape of the existing building, the space was still not suitable for current needs.

The new building would be placed on the site to be on axis with the church and will meet all current setbacks. It will be finished in stone and stucco to match the church. The demolition of the existing building will allow for increased parking on the site to help mitigate any overflow onto neighboring streets. All new landscaping and any change in parking lot lighting will be presented on the site development plan and will be in accordance with all town ordinances. The schematic design of the building has already been presented to the town Architectural Review Board and has received their blessing.

The new building will provide a much better, fully accessible work environment, but will not increase the number of employees or increase the hours of operation. There will be no change to the service or refuse areas already located on the site.

As mentioned above, the church has had this use on the property for 63 years and it was used as the Stuyvesant School for decades before that. For as far back in the records as we could find, the future land use map has designated this parcel as Public/Semi Public – Intense. Only recently, and undisclosed to the church, this was changed to Live/Work Neighborhood. The church is an established use and has no intention of vacating this property. The zoning on the ground is still R-10 and allows for this use with a Special Use Permit which the church already possesses. Therefore, we are requesting that the existing Special Use Permit be amended to allow the existing office building to be demolished and reconstructed in a more favorable location on the site.



Civil Engineering ♦ Land Surveying ♦ Land Planning

Saint John – SUP Amendment Addendum to Statement of Justification

January 26, 2023

Revised February 10, 2023

Additional items requested in letter from Town dated January 23, 2023

- The existing conditions are shown on sheet 2 of the permit plat. Existing conditions are provided for the entire parcel.
- The SUP plat shows existing trees in vicinity of the existing building and the proposed building that will replace it. All previous approved plans and amendments have an approved landscape plan. A landscape plan associated with the proposed building will be required and provided at site development plan. At that time screening and buffering will be provided per Ordinance requirements. In addition, and in accordance with final design plans, existing trees between Winchester Street and the proposed building will be preserved to the extent possible.
- A copy of the previous SUP plat and conditions of approval have been provided in the form of a zoning determination letter dated January 6, 2017. We have also provided a copy of a master plan that may have been associated with the original special use permit approved June 3, 1986.
- Existing and proposed parking has been shown on the SUP amendment. No change is made to the existing required parking tabulation as provided in the Pre-School Addition plan approved on August 1, 2017. For the purposes of this application, more parking is being added to the site, while no increase to use/intensity is proposed. Therefore, adequate parking will be provided. Detailed parking tabulation will be required and provided with the site development plan.

Evaluation Criteria; Issues for Consideration

1. Whether the proposed Special Use Permit is consistent with the Comprehensive Plan.

Evaluation: The amended Special Use Permit is consistent with the Comprehensive Plan, as no change in use is proposed.

2. Whether the proposed Special Use Permit will adequately provide for safety from fire hazards and have effective measures of fire control.

Evaluation: The new office building is the same size as the old one, therefore current provisions for safety from fire hazards and effective

measures of fire control should be adequate. In addition, measures will be evaluated with site development and building plan as appropriate.

3. The level and impact of any noise emanating from the site, including that generated by the proposed use, in relation to the uses in the immediate area.

Evaluation: No additional noise shall be generated. Intensity of use is not being changed.

4. The glare or light that may be generated by the proposed use in relation to uses in the immediate area.

Evaluation: No additional light shall be generated. Intensity of use is not being changed. Commercial building and parking lot lighting if proposed will be required to meet Ordinance standards.

5. The proposed location, lighting and type of signs in relation to the proposed use, uses in the area, and the sign requirements of this Ordinance.

Evaluation: No signs are being proposed with the new building.

6. The compatibility of the proposed use with other existing or proposed uses in the neighborhood, and adjacent parcels.

Evaluation: No changes to the site's use is proposed. The site is compatible currently and this application only proposes to replace an existing building.

7. The location and area footprint with dimensions (all drawn to scale), nature and height of existing or proposed buildings, structures, walls, and fences on the site and in the neighborhood.

Evaluation: Shown on the SUP plat.

8. The nature and extent of existing or proposed landscaping, screening and buffering on the site and in the neighborhood.

Evaluation: No changes to landscaping, existing features are shown on the SUP plat. Additional landscaping will be required associated with the new building location and parking layout. A landscape plan will be provided and approved with a site development plan following the SUP amendment process.

9. The timing and phasing of the proposed development and the duration of the proposed use.

Evaluation: No changes to timing and phasing and duration of the proposed use. The church property is long-standing and is already integrated into the community.

10. Whether the proposed Special Use Permit will result in the preservation or destruction, loss or damage of any significant topographic or physical, natural, scenic, archaeological or historic feature.

Evaluation: The applicant is working with the ARB in terms of the existing building and any historical significance. It should be noted that a portion of the existing building foundation will be preserved to the extent practical and used as a retaining wall. This will reduce the impact of grading and construction on the existing features to be preserved.

11. Whether the proposed Special Use Permit at the specified location will contribute to or promote the welfare or convenience of the public.

Evaluation: The church property is long-standing and is integrated into the community.

12. The traffic expected to be generated by the proposed use, the adequacy of access roads and the vehicular and pedestrian circulation elements (on and off-site) of the proposed use, all in relation to the public's interest in pedestrian and vehicular safety, efficient traffic movement and access in case of fire or catastrophe.

Evaluation: No additional traffic beyond what is already existing.

13. Whether the proposed use will facilitate orderly and safe road development and transportation.

Evaluation: No change to roads or internal travelways.

14. Whether, in the case of existing structures proposed to be converted to uses requiring a Special Use Permit, the structures meet all code requirements of the Town of Warrenton.

Evaluation: The existing structure is to be demolished as the building can longer be serviced and maintained to current building standards. A new building is necessary to provide all code requirements.

15. Whether the proposed Special Use Permit will be served adequately by essential public facilities, services and utilities.

Evaluation: The new office building is the same size and use as the old one, so all services will be adequate.

16. The effect of the proposed Special Use Permit on environmentally sensitive land or natural features, wildlife habitat and vegetation, water quality and air quality.

Evaluation: The proposed building will be constructed in an existing open grass area. The land does not contain environmentally sensitive features that contribute to wildlife, water or air quality.

17. Whether the proposed Special Use Permit use will provide desirable employment and enlarge the tax base by encouraging economic development activities consistent with the Comprehensive Plan.

Evaluation: Not applicable.

18. The effect of the proposed Special Use Permit use in enhancing affordable shelter opportunities for residents of the Town, if applicable.

Evaluation: Not applicable.

19. The location, character, and size of any outdoor storage.

Evaluation: Not applicable.

20. The proposed use of open space.

Evaluation: Not applicable.

21. The location of any major floodplain and steep slopes.

Evaluation: Not applicable.

22. The location and use of any existing non-conforming uses and structures.

Evaluation: Not applicable.

23. The location and type of any fuel and fuel storage.

Evaluation: Not applicable.

24. The location and use of any anticipated accessory uses and structures.

Evaluation: Not applicable.

25. The area of each proposed use.

Evaluation: No changes of use. Only replacement of an existing building.

26. The proposed days/hours of operation.

Evaluation: No change to operation. Church use is predominantly on Sunday and the school is Monday through Friday during the day. The purpose of the amendment is the replacement building.

27. The location and screening of parking and loading spaces and/or areas.

Evaluation: Location of parking indicated on the plat. Screening to be addressed with landscape plan required at site development plan.

28. The location and nature of any proposed security features and provisions.

Evaluation: Provided on SUP plat, if applicable.

29. The number of employees.

Evaluation: Not applicable, existing uses with no changes.

30. The location of any existing and/or proposed adequate on and off-site infrastructure.

Evaluation: Provided.

31. Any anticipated odors which may be generated by the uses on site.

Evaluation: Not applicable.

32. Refuse and service areas.

Evaluation: Refuse and service areas will be accommodated with site development plan. Adequate area is available across the parcel.

There being no further business, the meeting adjourned.

Respectfully submitted,

Evelyn J. Weimer
Evelyn J. Weimer
Recorder

MINUTES OF THE REGULAR MEETING OF THE COUNCIL OF THE TOWN OF
WARRENTON HELD ON TUESDAY, JUNE 3, 1986

The regular meeting of the Council of the Town of Warrenton was held on Tuesday, June 3, 1986 at 7:00 p.m. in the Council Chambers of the Municipal Building.

The following members were present: Mr. J. W. Lineweaver, Mayor; Benjamin T. Harris, Vice-Mayor; Councilmen J. Frederick Austin, Jr.; Frank S. Foley; Robert J. Hockensmith; John L. Mann, Sr.; Councilwoman Kathryn A. Carter; Donald A. Smith, Acting Town Manager; Carroll J. Martin, Jr., Town Attorney, and Evelyn J. Weimer, Town Recorder.

The meeting was opened with invocation by Reverend Donald W. Pickens, Pastor, Warrenton Assembly of God.

All members received copies of the minutes of the regular meeting of May 6, 1986 and the recessed meeting of May 8, 1986. Miss Carter requested that page 3, paragraph 2 of the minutes of the recessed meeting of May 8, 1986 be corrected to read: "On a motion by Miss Carter, seconded by Mr. Austin, Council voted to ask Mr. Bendall to see if elections could be held the first Tuesday in May. If this is not possible, Council requested elections take place the last Tuesday in April preceding April 22nd."

On a motion by Mr. Hockensmith, seconded by Mr. Foley, Council approved the minutes of the regular meeting as presented and the minutes of the recessed meeting of May 8, 1986 as corrected.

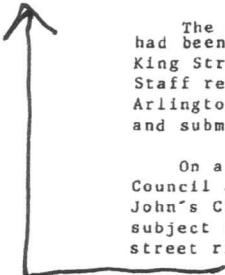
Next on the agenda was to hear from visitors. Mrs. Beverly K. Hunsaker, Secretary of the Baha'i Local Spiritual Assembly of Fauquier County, appeared before Council to request Council passage of a proclamation declaring 1986 the year of Peace in the Town of Warrenton. Miss Carter expressed concern that the Town would be setting a precedent to allow visitors to speak on matters other than Town business. The Mayor told Mrs. Hunsaker it was not Council policy to pass a proclamation without first reviewing it. Mrs. Hunsaker left a copy of the proclamation for consideration.

Next was the Public Hearing on the application of Arlington Catholic Diocese for a special use permit for expansion of the St. John Catholic School and Church at 271 Winchester Street.

The Mayor stated the Public Hearing had been properly advertised.

The Mayor declared the Public Hearing open at 7:08 p.m. Mr. James Downey, Attorney, addressed Council on behalf of the Arlington Catholic Diocese. Mr. Downey stated the Church had been at its present location for 25 years. The current enrollment of the school is 203. Mr. Downey stated the school would be constructed in two phases. In Phase I, the present school would be closed and used for meetings and special functions. Phase I would increase enrollment to 270 students and would be completed in approximately 1 1/2 years. Phase II, would increase enrollment to 540 and include a relocation of the convent. The church would be constructed over a period of ten years or more.

There being no one other person to speak for and no one to speak against the application, the Mayor declared the Public Hearing closed at 7:15 p.m.



The Acting Town Manager stated that the architect's plans had been submitted indicating that the Church owned all of King Street and to the centerline of Winchester Street. Town Staff recommended a special use permit be granted only if the Arlington Diocese agreed to construct the public improvements and submit a plan prepared by a registered surveyor.

On a motion by Mr. Hockensmith, seconded by Mr. Mann, Council approved the special use permit for expansion of St. John's Church and School located at 271 Winchester Street subject to proper site plan review and resolution of the street right-of-ways.

Next was the Public Hearing on the application of the Warrenton Assembly of God Church for a special use permit to operate a pre-school program in the Church located at 276 Cleveland Street.

The Public Hearing had been properly advertised and the Mayor opened the Public Hearing at 7:28 p.m.

Reverend Donald Pickens stated that the Warrenton Assembly of God would like to operate a pre-school for children ages 2-5. He stated they were going through the process of obtaining all necessary permits.

There being no one else to speak for and no one to speak against the application, the Mayor declared the Public Hearing closed at 7:29 p.m.

On a motion by Mr. Harris, seconded by Miss Carter, Council approved the application of Warrenton Assembly of God for a special use permit to operate a pre-school program in the Church located at 276 Cleveland Street.

Next on the agenda was a Public Hearing on the application of Fauquier Temporary Family Shelter Coalition for a special use permit to operate a temporary shelter in an RMF zone on land owned by the County of Fauquier located at Keith and E. Franklin Streets.

The Public Hearing had been properly advertised and the Mayor declared the public hearing open at 7:31 p.m.

Mr. Steve Crosby, Fauquier County Administrator, stated the Board of Supervisors approved a portion of County land to be used by the shelter. The costs of relocation of the house will be funded by the Department of Social Services and FISH. The County will be responsible for the maintenance of the house after relocation.

Mrs. Jan Selbo, Director of the Department of Social Services, stated that her agency would be responsible for admissions to the shelter. She stated they would receive referrals from other community service organizations such as FISH, Community Action, and the Health Department. Social Services would use the services of the Town Police Department to screen people who would be using the shelter. Department of Social Services will make daily visits to the shelter when it is occupied and would be on call for emergencies.

Mrs. Jean Davis of FISH stated her organization is all-volunteer. They provide food, transportation, fuel, pay utility bills, purchase medical supplies and subscriptions and supply emergency housing for those who cannot obtain it through other sources. She stated the need was great for a shelter of this kind. She stated from July 1 through December 31, 1985, FISH received 41 requests for emergency housing assistance, but they only handled 7 of these, involving 14 people. FISH volunteers housed these 14 people in their own homes. She stated the Social Services Department has received 45 calls this year and only helped 2. Fauquier Community Action receives 5-10 calls per week for this kind of assistance.

Moving and renovating the house will be financed entirely by donations.



TOWN OF WARRENTON

POST OFFICE DRAWER 341
 WARRENTON, VIRGINIA 20188-0341
<http://www.warrentonva.gov>
 TELEPHONE (540) 347-1101
 FAX (540) 349-2414
 TDD 1-800-828-1120

January 6, 2017

David A. Norden, AIA
 Hinckley, Shepherd, Norden, Architects
 19 Winchester Street
 Warrenton, Virginia 20186

RE: Zoning Determination Letter for 271 Winchester Street (GPIN 6984-36-7135-000)

Dear Mr. Norden:

In response to your request for a Zoning Determination Letter for the above-mentioned property within the Town of Warrenton, please note the following:

- The zoning district for the parcel in question is R-10 (Residential). The parcel lies within the Historic District and is subject to the regulations of this Zoning Overlay District.
- The 2006 Zoning Ordinance R-10 District requires a Special Use Permit for church and school uses. However, the existing uses, Saint John the Evangelist Catholic Church and School received a Special Use Permit on June 3, 1986 to expand the church and school. The Special Use Permit included the following:
 - Construction of a school within two phases:
 - Phase I: Use of existing school for meetings and special functions. Increase enrolment from 203 to 270 students within approximately 1 ½ years.
 - Phase II: Increase enrolment to 540 students and relocate the convent.
 - Construction of the church would occur over a period of 10 years or more.

Conditions for the Special Use Permit approved on June 3, 1986 included:

- Proper Site Plan Review
- Resolution of Street Right-of-Ways
- As per the Special Use Permit approved on June 3, 1986, expansion of the school to allow the enrolment of up to 540 students is allowed by right upon approval of a Site Plan. All applicable Federal, state, and local regulations will need to be met for Site Plan approval. This includes, but is not limited to items such as:
 - Approval by the Architectural Review Board

- Building Code Regulations
- Public Facilities Manual Regulations
- Storm Water Management Regulations
- Zoning Ordinance Regulations
 - Impervious surfaces maximums (65%)
 - Setbacks (30ft front; 15ft side; 20ft rear)
 - Height (35 ft – up to 60 feet for institutional/church uses provided setbacks are increased 1ft per each foot above 35ft)
 - Parking requirements per Article 7
 - Landscaping requirements per Article 8

As the documentation that the Town has regarding the approved Special Use Permit is limited, it would be helpful if we could obtain a copy of the architect's plans submitted for the Special Use Permit application. Mr. James Downey was the attorney for the Special Use Permit application.

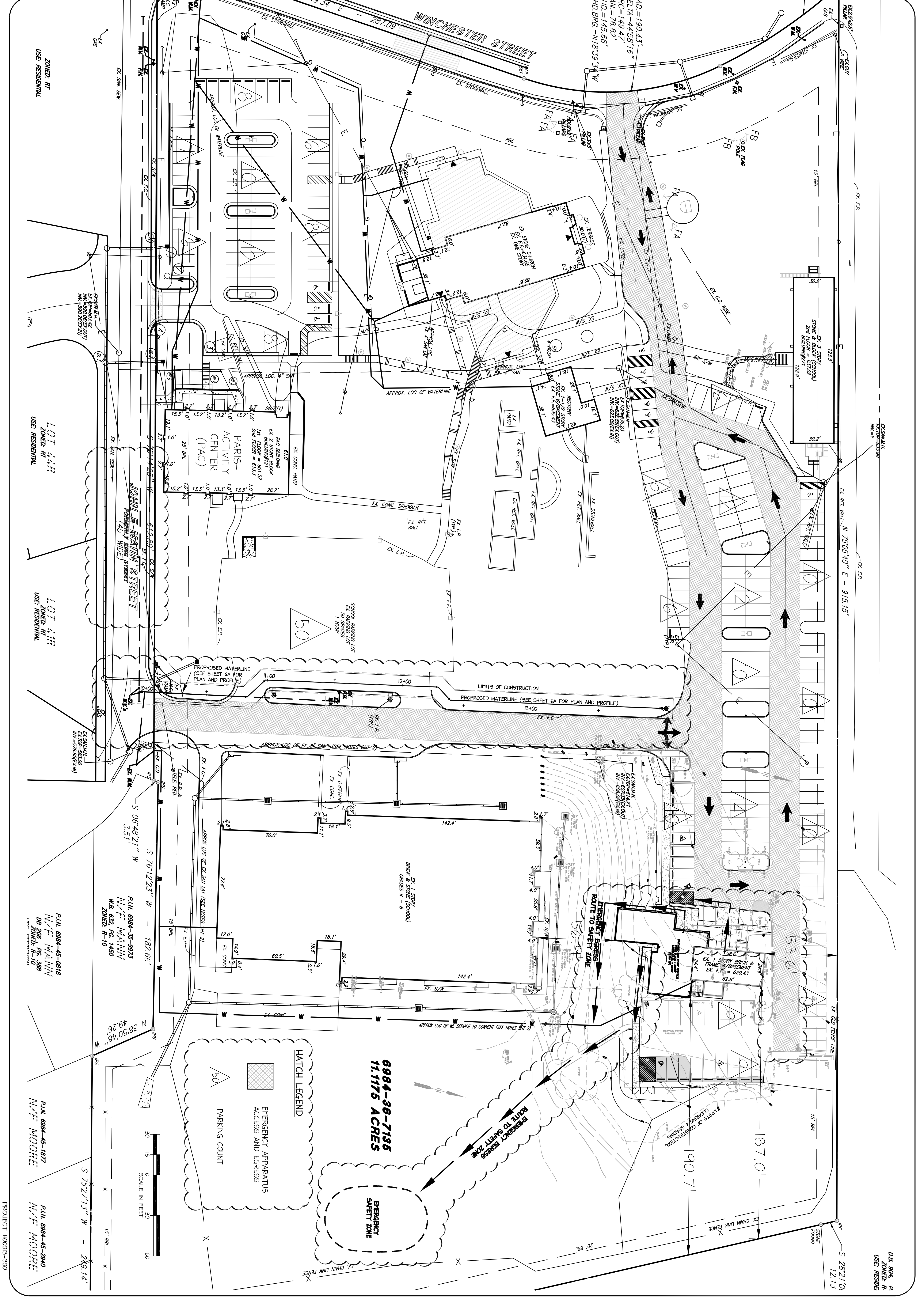
This Zoning Confirmation Letter only applies to the subject property noted above. This is a formal decision by the Zoning Administrator of the Town of Warrenton, Virginia. Any person aggrieved by any decision of the Zoning Administrator may take an appeal to the Board of Zoning Appeals. Such appeal shall be taken within thirty (30) days of the date of this letter by filing with the Zoning Administrator a notice of such appeal specifying the grounds thereof. The decision shall be final and unappealable if not appealed within thirty (30) days. The fees for filing an appeal are \$250.00 plus the cost of advertising and property notice mailings. Classified advertising is placed in the local paper for two consecutive weeks prior to the meeting with costs averaging around \$500.00. The cost for property notice mailings varies and depends on the number of adjacent owners. The adjacent property notices are sent via first class mail at the current first class postage rate, which is \$.48. The Zoning Office is located at 18 Court Street within Town Hall. Hours of operation are from 8 AM until 4:30 PM Monday through Friday. If you have any questions regarding this notice or would like additional information about the appeal process, please do not hesitate to contact me at (540) 347-2405.

Sincerely, .



Brandie M. Schaeffer
Director of Planning & Community
Development Department
Town of Warrenton

CC: File



ZONED: RT
USE: RESIDENTIAL

L.O.T. 4.47
ZONED: RT
USE: RESIDENTIAL

L.O.T. 4.17
ZONED: RT
USE: RESIDENTIAL

OVERALL SITE & EMERGENCY ACCESS PLAN
 SAINT JOHN THE EVANGELIST
 ROMAN CATHOLIC CHURCH
 TOWN OF WARRENTON
 FAUQUIER COUNTY, VIRGINIA

EMERGENCY ROUTE TO SAFETY ZONE
EMERGENCY ROUTE TO SAFETY ZONE
EMERGENCY SAFETY ZONE

HATCH LEGEND
EMERGENCY APPARATUS ACCESS AND EGRESS
PARKING COUNT

SCALE IN FEET
30 15 0 30 60

DATE: JANUARY 26, 2017
SCALE: 1" = 30'
SHEET 4
OF 13

REVISIONS:
DESCRIPTION DATE
PARKING & ACCESS 5/9/17

COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER
JAMES A. CARSON, JR.
I.C. NO. 021624
6-12-17

TOWN OF WARRENTON
FAUQUIER COUNTY, VIRGINIA

CARSON
LAND CONSULTANTS
Land Planning, Surveying & Site Design
45 Main Street, 1st Floor • Warrenton VA 20186 • (540) 347-9191
www.CarsonLC.com

PROJECT #0003-300



Town Council Public Hearing
SUP 23-1 St John the Evangelist
July 11, 2023

Request

Item a.

Amend June 3, 1986 SUP

- **GPIN Applicant:** 6984-36-7135-000
- **Property Owner:** Catholic Diocese of Arlington (St Johns Catholic School Tees)
- **Representative:** Jim Carson
- **Zoning:** R-10 Residential
- **Comprehensive Plan:** Live Work Neighborhood
- SUP Amendment to allow for *(demolition permit approval required)* the demolition of a 11,000 sq ft classroom/dormitory building and construction of a 13,000 sq ft, three floor office building *(ARB COA required)*

Proposed Location



Previous SUP Approval

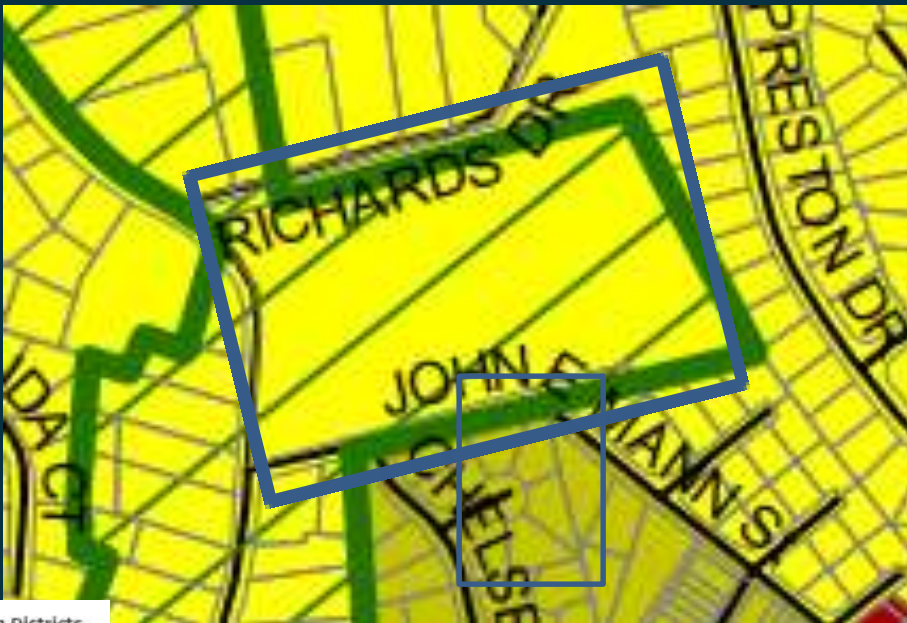
Item a.

- June 3, 1986 SUP Approval for Expansion of Church and School
- Town Council Minutes/2017 Zoning Determination Letter
 1. Construct School in two phases
 2. Phase 1 enrollment 270
 3. Phase 2 enrollment 540
 4. Relocate the convent
 5. Right of way dedication to centerline of King Street (aka John E Mann Street) and Winchester
- SDP 2017 -01
 - Public Works and Utility stated SWM/BMP calculations would not be required at that time *“however, as new projects are proposed by the Church, the additional work will be considered accumulative to this plan and will trigger the Commonwealth’s SWM Regulations.”*

Adjacent Uses

Item a.

Zoning Map



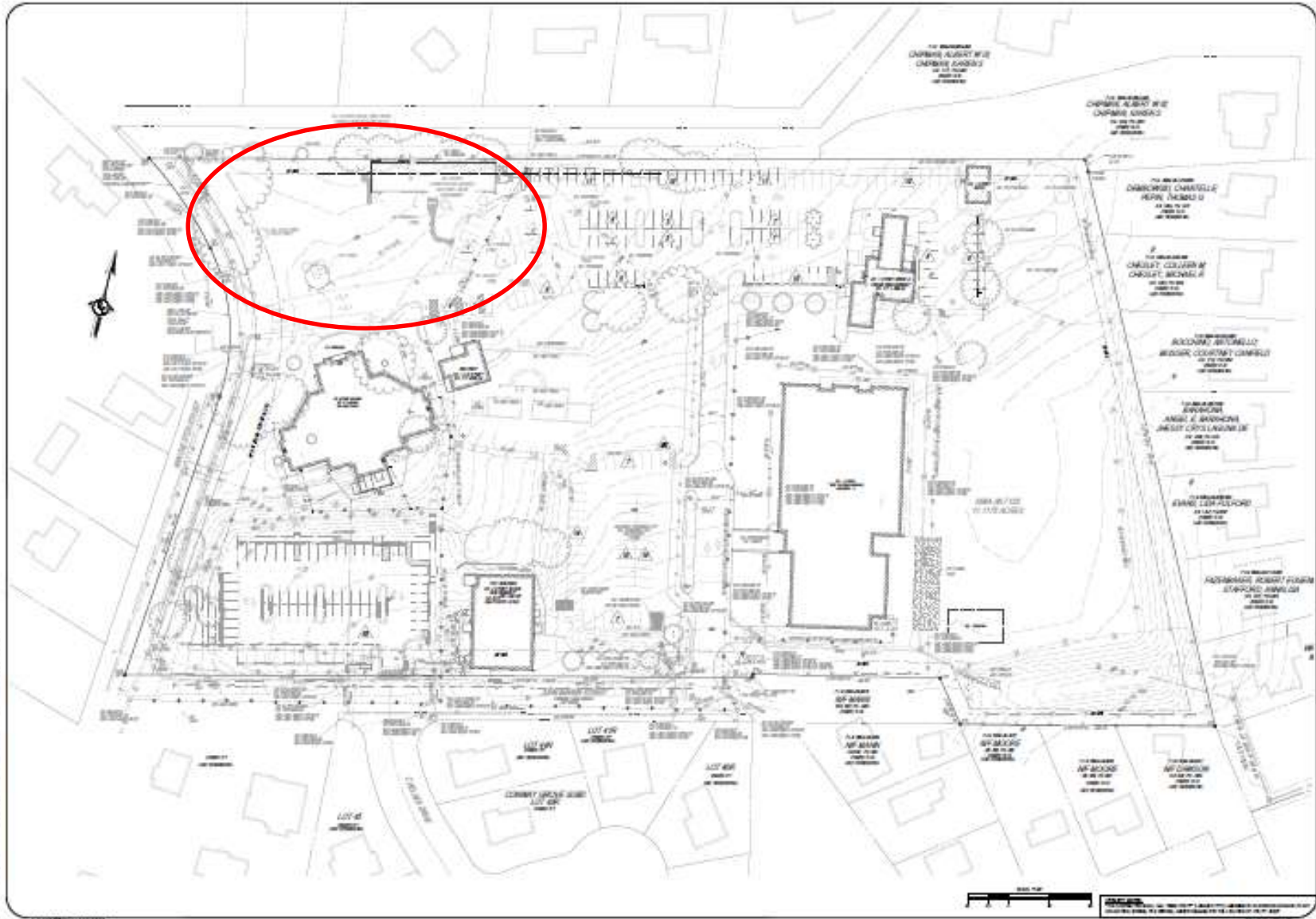
- R-10 Single Family Residential
- Conway Grove Single Family Residential, Reserve at Moorhead Single Family Residential, Richards Lane/Winchester Street/John E Mann Single Family Residential
- Historic District

Zoning Districts

- R-15
- R-10
- R-6
- RT
- RMF
- RO
- PSP
- C

Existing Conditions Plan

Item a.



CARLSON
LAND MANAGEMENT

NOT FOR
CONSTRUCTION

**SAINT JOHN THE EVANGELIST
CATHOLIC CHURCH**
MANASSAS, VA

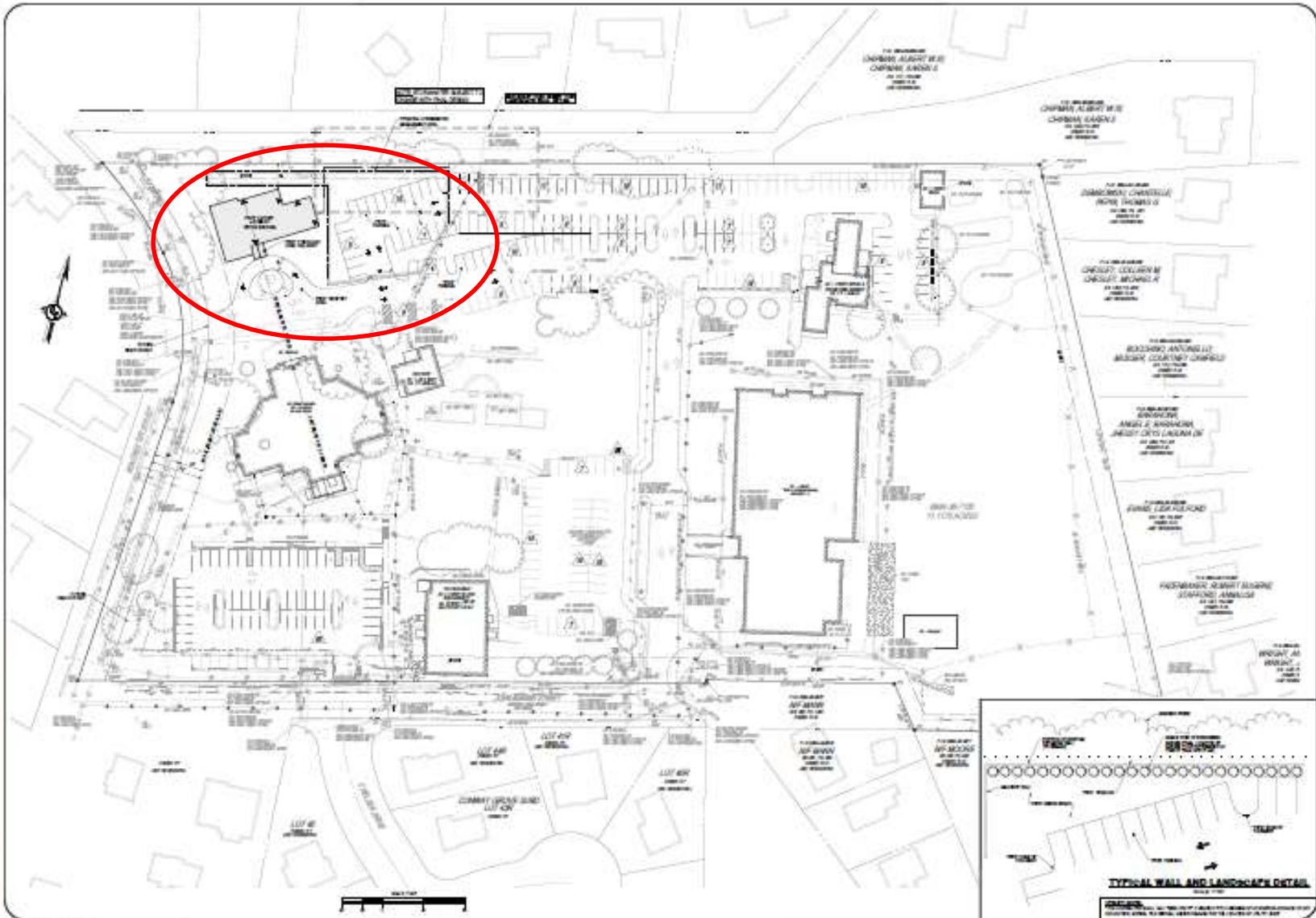
COURTESY OF THE ARCHDIOCESE OF WASHINGTON



EXISTING
CONDITIONS
PLAN

SUP Plan

Item a.



CARSON
LANDSCAPE ARCHITECTURE
1100 N. G ST. SUITE 100
DALLAS, TEXAS 75207
TEL: 972.382.1100

NOT FOR CONSTRUCTION

**SAINT JOHN THE EVANGELIST
CATHOLIC CHURCH**
MANASSAS, VA
CENTRAL DISTRICT

TYPICAL WALL AND LANDSCAPE DETAIL

SPECIAL USE PERMIT PLAN

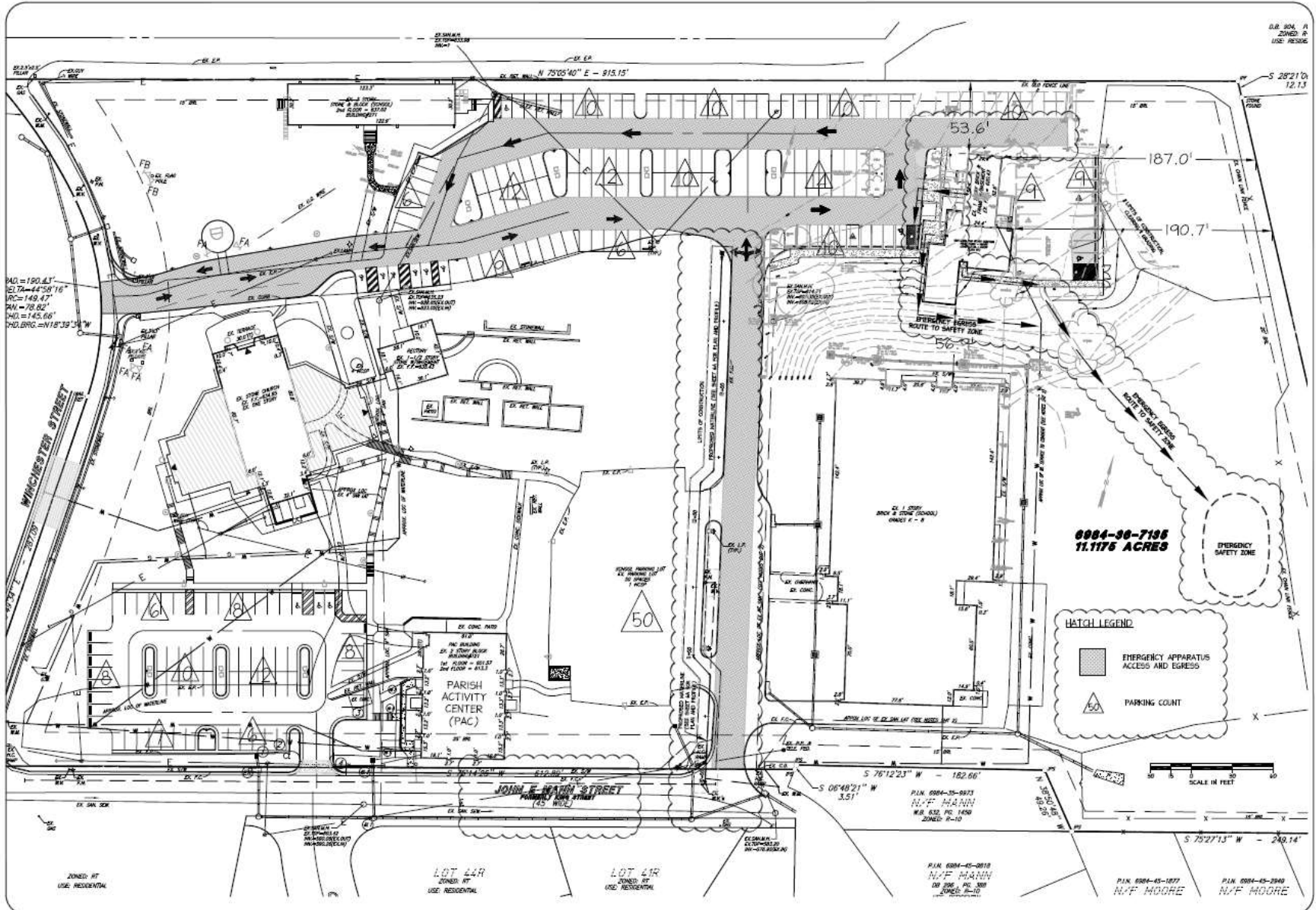
DATE: 10/18/11

SCALE: 1/8" = 1'-0"

170

Emergency Access Plan

Item a.



CARSON
LAND CONSULTANTS

OVERALL SITE & EMERGENCY ACCESS PLAN
SAINT JOHN THE EVANGELIST
ROMAN CATHOLIC CHURCH
FAUQUIER COUNTY, VIRGINIA
TOWN OF WARRENTON

REVISIONS
DATE



171

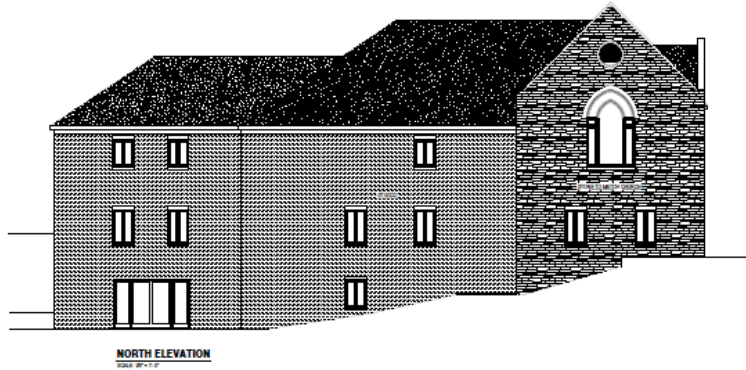
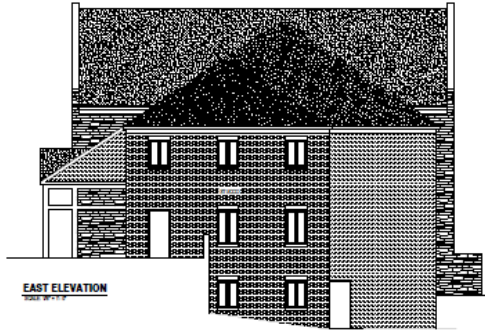
SHEET 4

OF 13

SAINT JOHN'S (PRE-SUBDIVISION SITE PLAN)

Elevations

Item a.



QUALITY SOURCE
THIS DRAWING IS FOR INFORMATION ONLY. IT IS NOT TO BE USED FOR CONSTRUCTION OR AS A BASIS FOR ANY DECISIONS. THE CLIENT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS IN ADVANCE OF ANY CONSTRUCTION. MATERIALS, PALETTE COLORS, AND/OR FINISHES FOR THIS LOCATION OF ITEMITY 100007.

PROJECT #100007-040

ARB Approval Required

Artist Rendering

Item a.



ARB Approval Required

Planning Commission Review

Item a.

- Buffers and landscaping along the length of the northern boundary of the property
- Energy, water, and sewer demands
- Intentions of existing building and timing of demolition
- Parking overflow into adjacent neighborhoods and stacking in the public right-of-way
- Elevations from Winchester Street and the request for artist's rendering
- Appropriate stormwater and sediment control
- Boundary line adjustments
- ARB approvals

Planning Commission May 16, 2023 Public Hearing

Item a.

- Public Hearings May 16 and June 20
- Three citizens spoke at each PH raising:
 - Building proximity to road
 - Water run off issues
 - Potential noise/lighting
 - Loss of green space
 - Support for new building
- Planning Commission voted (4-0-1; Lawrence abstain) to recommend Approval with Conditions

Conditions of Approval

1. General: This Special Use Permit is issued covering the entire Property pursuant to the provisions of § 11-3.10 of the Town of Warrenton Zoning Ordinance.
2. Site Development: The Property shall be developed in substantial conformance with the Special Use Permit Plan entitled, “Special Use Permit Plat,” prepared by Carson Land Consultants, , Page 1 dated February 10, 2023 and Pages 2-4 dated December 6, 2022, all revised May 30, 2023, consisting of four (4) sheets (the “SUP Plan”). Minor changes and adjustments may be made to the road and street alignments, entrances, parking, dimensions and location of SWM/BMP facilities, the exact configuration and location of building footprints, and other similar features as shown on the SUP Plan, provided they meet the intent of these Conditions and are approved by the Director of Community Development or the Zoning Administrator.

Conditions of Approval

3. Use Parameters:

- a. Special Use Permit Area – The Special Use Permit shall apply to the entire +/-11.0664 acre site.
- b. Use Limitations – The use shall be limited to a religious institution and related facilities including the church, school, and those accessory uses customarily incidental to the primary uses.
- c. Maximum Students – The maximum number of students shall be 540 as approved in the previous SUP dated June 3, 1986.

4. Architecture: The site is located within the Historic District and is subject to Architectural Review Board, Certificates of Appropriateness (COA), and the Town of Warrenton Guide to Historic Resources. No structures shall be modified or erected until a COA has been issued. This includes walls and fences exceeding 36” in height.

5. Signage: All signage shall comply with the applicable provisions of Article 6 of the Town of Warrenton Zoning Ordinance.

6. Site Maintenance and Refuse Collection: Any refuse storage areas shall be screened with a solid enclosure constructed of materials that are compatible with the buildings on the property. The enclosure shall have gates that prohibit viewing this area from adjoining properties and public rights-of-way. The gates shall remain closed when not in use and the trash containers shall be emptied as necessary to prevent odors or infestation by vermin. Compliance with this condition shall be demonstrated on each final site plan(s). Deliveries and refuse collection shall follow Town Code Section 11-19(9).

Conditions of Approval

Item a.

7. Environment: All landscaping shall be native and drought-resistant or other species as may be approved on the final site plan(s).

- a) Landscaping – The Applicant shall make all efforts to maintain and preserve the existing mature vegetation and hardwood trees when feasible.
- b) Minimize Clearing and Grading – The Applicant shall show the limits of clearing and grading for the site on the approved final site plan(s). For portions of buffers located outside the limits of clearing and grading, the existing vegetation shall be preserved and supplemented to meet the intent the buffer as noted above. In addition, existing trees and shrubs shall be incorporated into the landscaping plan. This does not preclude the removal of diseased, noxious and/or invasive vegetation.
- c) Stormwater Management – The property owner is required to account for all improvements, regardless of square footage, made to the property since July 1, 2014, and design and construct for the accumulative stormwater management for both quantity and quality in accordance with all applicable State and local requirements in effect at the time of site development plan approval.

Conditions of Approval

8. Lighting:

- a. Proposed lighting shall be reviewed during the review of the Certificate of Appropriateness and at the time of site plan in accordance with the Zoning Ordinance.
- b. Building-mounted security lighting, which is full cut-off and directed toward the building and in compliance with the Zoning Ordinance, shall be permitted.
- c. All new and replacement light fixtures shall consist of full cut-off fixtures with a color temperature of 3,000 K or lower, and a maximum mounting height of 14 feet.
- d. Lighting on the school managed turf fields is prohibited.
- e. All other proposed lighting shall be addressed at site plan in accordance with the Zoning Ordinance.

Conditions of Approval

Item a.

9. Transportation:

- a) Vehicular Access – The site shall be accessed from the Winchester Street and John E. Mann entrances. Egress shall be controlled via a stop sign traffic control with stop bar at the exits.
- b) There shall be no stacking of vehicles into the public right-of-way. The school is responsible for ensuring drop off and pick up from the school do not result in backs ups on the public streets. Stacking on the property by accessing the school by way of Winchester Street or staggering times is required to achieve this condition.
- c) Handicapped Parking and Signage – Handicapped parking and signage for shall be provided in accordance with the PFM and the Americans with Disabilities Act.
- d) Dedication of public right-of-way on Winchester Street shall be included on the Site Development Plan and be recorded prior to occupancy permit. With the dedication of the right-of-way frontage, the property owner will submit with the site plan an agreement to retain the maintenance of the existing perimeter wall and entrance features, including the entrance apron on Winchester Street for Town review and approval.

10. Parking: Parking located on the north side of the property, adjacent to Richards Lane shall buffer and shield the headlights of vehicles from the adjacent residences. Headlights shall be screened from view from the residential-zoned property located to the north to at least 3.5 feet in height above the parking surface elevation with a solid wall, sight-tight fence, evergreen shrubs, or other method as approved by the Zoning Administrator as a part of the Site Development Plan, to extend the length of the parking on the north side.

Draft Conditions of Approval for Consideration

Item a.

11. Water and Sewer: The site shall continue to be served by public water, with the property owner bearing all costs associated with providing the additional services that will be required. Construction of a new 3-story building, +/- 13,000 square foot located at the northwest corner of the property on Winchester Street will require a separate water meter, per Town code.

12. Demolition: Demolition of the existing 3 story stone and block building located in the northwest portion of the property adjacent to Richards Lane shall require a permit from the Town. No final occupancy permit shall be issued on a new 3-story building, +/- 13,000 square foot located at the northwest corner of the property on Winchester Street until the above existing building has been demolished. The old building will be demolished within 6 months after the issuance of the temporary occupancy permit.

Draft Motions for Consideration

Item a.

1. I move that the Town Council approve of SUP 23-1, St John Catholic Church to amend the approved SUP in June 3, 1986, to allow for the 13,000 square foot accessory use building the church and school, subject to the Conditions of Approval dated July 11, 2023, sheets 1 through 4 of the Special Use Permit Plan created by Carson Land Consultants dated February 10, 2023 and revised through May 30, 2023.

OR

2. I move that the Town Council forward SUP 23-1, St John the Evangelist to the next Town Council meeting.

OR

3. I move an alternative motion.

OR

4. I move to deny SUP 23-01 for the following reasons...



Planning Commission Public Hearing
SUP 23-1 St John the Evangelist
July 11, 2023



Office of the Town Manager

Frank Cassidy

STAFF REPORT

Warrenton Town Council

Carter Nevill, Mayor
Heather Sutphin, Ward 1
William Semple, Ward 2
Brett Hamby, Ward 3
James Hartman, Ward 4 Vice Mayor
Jay Heroux, Ward 5
Paul Mooney, At Large
David McGuire, At Large

Item b.

Council Meeting Date:	October 10 th , 2023
Agenda Title:	Consent Agenda- Meeting Minutes
Requested Action:	Review and consider approval of the Town Council Meeting Minutes
Department / Agency Lead:	Town Clerk
Staff Lead:	Stephen Clough

EXECUTIVE SUMMARY

The following draft minutes have been submitted by the Town Clerk for consideration for approval by the Town Council.

April 11th, 2023,00 Regular Town Council Meeting

BACKGROUND

The Town Council Meeting minutes are created by the Town Clerk for each meeting of the Town Council to summarize the meetings and act as an official record for the proceedings per Warrenton Town Code (Code 1981, § 2-31).

Per Virginia Code § 2.2-3707(i) the meeting minutes will contain the following:

- (a) the date, time, and location of the meeting;
- (b) the members of the public body recorded as present and absent; and
- (c) a summary of the discussion on matters proposed, deliberated, or decided, and a record of any votes taken.

In addition, for electronic communication meetings conducted in accordance with § 2.2-3708.2 or 2.2-3708.3, minutes shall include (1) the identity of the members of the public body who participated in the meeting through electronic communication means, (2) the identity of the members of the public body who were physically assembled at one physical location, and (3) the identity of the members of the public body who were not present at the location identified in clause (2) but who monitored such meeting through electronic communication means.

The minutes are an integral part of Plan Warrenton 2040 as they document the steps taken by the Staff and Town Council towards every goal laid out in the Comprehensive plan.

STAFF RECOMMENDATION

Review and consider approval of the Town Council Meeting Minutes.

Service Level / Policy Impact

The minutes of the Town Council Meetings help facilitate transparency in Government with records management and availability.

Fiscal Impact

No additional impact is expected. Minutes creation is an assigned duty of the Town Clerk and falls within the budget amount for that role.

Legal Impact

The Town Council Meeting minutes are the legal record of the proceedings and actions of the Town Council.

ATTACHMENTS

1. Draft April 11th, 2023, Regular Town Council Meeting Minutes.
2. Draft April 25th, 2023, Special Town Council Meeting Minutes.
3. Draft March 14th, 2023, Regular Town Council Meeting Minutes.



TOWN COUNCIL REGULAR MEETING

21 Main Street

Tuesday, April 11, 2023 at 9:00 AM

MINUTES

AN OPEN MEETING OF THE TOWN COUNCIL OF THE TOWN OF WARRENTON, VIRGINIA, WAS HELD ON APRIL 11TH, 2023, AT 9:00 A.M

Regular Meeting

Work Session

PRESENT

Mr. Carter Nevill, Mayor; Ms. Heather Sutphin; Mr. Brett Hamby; Mr. Jay Heroux; Mr. William Semple Mr. Paul Mooney; Mr. David McGuire; Mr. Tommy Cureton, Acting Town Manager; Mr. Stephen Clough, Town Clerk; Mr. Olaun Simmons, Town Attorney.

ABSENT

Mr. James Hartman, Vice Mayor

Regular Meeting

PRESENT

Mr. Carter Nevill, Mayor; Ms. Heather Sutphin; Mr. Brett Hamby; Mr. Jay Heroux; Mr. William Semple Mr. Paul Mooney; Mr. David McGuire; Mr. Tommy Cureton, Acting Town Manager; Mr. Stephen Clough, Town Clerk; Mr. Olaun Simmons, Town Attorney

ABSENT

Mr. James Hartman, Vice Mayor

WORKSESSION - 9:00 AM

The Mayor Called the meeting to order at 9:00am. A quorum was present, and business could be conducted. The mayor stated that Councilmen Heroux was on his way but running late and that Vice Mayor Hartman would not be in attendance this morning.

1. Closed Session

- 1) As permitted by Virginia Code § 2.2-3711 (A)(1), a personnel matter involving: Discussion, consideration, or interviews of prospective candidates for employment or appointment; OR assignment, appointment, promotion, performance, demotion, salaries, disciplining, or resignation of specific public officers, appointees, or employees of the Town; specifically dealing with Interim Town Manager Appointment

2) As permitted by Virginia Code § 2.2-3711 (A)(8), consultation with legal counsel regarding specific legal matters requiring the provision of legal advice by such counsel, relating to Speed Limits in the Town

Councilmen Hamby moved to convene a closed session as permitted by Virginia Councilmen McGuire Seconded. There was no discussion on the motion.

Ayes: Ms. Heather Sutphin; Mr. William Semple; Mr. Brett Hamby; Mr. David McGuire, Mr. Paul Mooney.

Nays:

Abstention:

Absent: Mr. James Hartman, Vice Mayor.

Upon reconvening at 10:18 AM from the closed session, Councilmen Hamby moved to adopt the following Certification of Closed meeting:

CERTIFICATION OF CLOSED MEETING

WHEREAS, the Town Council of the Town of Warrenton has convened a closed meeting on this date pursuant to an affirmative recorded vote in accordance with the provisions of the Virginia Freedom of Information Act; and

WHEREAS, Section 2.2-3172 E of the Code of Virginia requires a certification by the Town Council that such closed meeting was conducted in conformity with Virginia law;

NOW, THEREFORE, BE IT RESOLVED that the Town Council hereby certifies that, to the best of each members knowledge, (i) only public business matters lawfully exempted from open meeting requirements by Virginia law were discussed in the closed meeting to which this certification resolution applies, and (ii) only such public business matters as were identified in the motion convening the closed meeting were heard, discussed or considered by the Town Council

Councilmen Mooney seconded, there was no discussion on the motion. The vote for the motion was unanimous, as follows:

Ayes: Ms. Heather Sutphin; Mr. William Semple; Mr. Brett Hamby; Mr. David McGuire, Mr. Paul Mooney.

Nays:

Abstention:

Absent: Mr. James Hartman, Vice Mayor

2. Acquisition of Real Property- Horse Show Grounds

Acting Town Manager Tommy Cureton Introduced the topic. He stated that the topic was for information only with a decision being hopefully reached in May. Mr. Cureton stated that the Town had begun the process of exploring options to purchase the Warrenton Horse Show Grounds. The Historic Warrenton Horse show grounds, home to the longest operating horse show in the nation, has been discussing the potential sale with the Town

since early 1990. The Horse Fair Grounds consist of two parcels of land totaling 9.57 acres. The grounds are zoned residential and consist of a maximum of 37 lots. The Property is within Ward Three, half a mile from the nearest access to the Greenway and .75 Miles from the nearest Public Park. The Horseshow grounds typically brings over 4,000 visitors per year to Warrenton and is an important link in the economy of Warrenton.

Mr. Cureton further explained that the Town is committed to continuing the equine uses of the property, he described the use of the grounds as the Horse show association hosts two full scale horse shows on the property occurring around Labor Day and Memorial Day each year. As was mentioned earlier, in the early nineties, the association expressed an interest in partner partnering the property with the town while continuing its tradition of two annual horse shows.

He explained that since the 90's, discussions had stalled thought the Town's interest in helping the association preserve the property's historic legacy has not wavered.

He continued stating the benefits of the potential purchase as well as the impact of park use due to the pandemic and the ability to utilize the space with alternative locations for the farmers market or other special events held by the Town.

He stated that Staff would move forward seeking a decision from the Council in May and outlined how the park would be incorporated under the Parks and Recreation department. Additionally, he outlined how the park would be maintained and the history of what steps had been taken by staff at the direction of the Council to bring this item before them. He highlighted some of the issues of the grounds that would require major repairs or demolition to address ADA issues, Structural Issues, and compliance issues noted in the staff report.

Mr. Cureton added that negotiations were ongoing with the seller regarding the necessary repairs and would be finalized before bringing the item back to the Council in May.

Councilmen Semple inquired about the cost of maintenance for the grounds,

Mr. Cureton responded that the costs would be \$1.6 Million for the purchase of the grounds, a \$10,000 increase to the budget for park maintenance, \$14,000 for a survey that has been initiated, and that the Town has received a grant from the Virginia Outdoors Foundation for \$100,000 for the purchase or use of the facility. He also addressed some of the costs of the renovations to the existing structures on the property.

Councilmen Semple inquired about the terms of the Leas back to the seller.

Mr. Cureton responded that a lease was being negotiated by Mr. Crim for the use of the grounds. He added that staff would not be setting up the jumps and items for the hose show under the agreement.

Mr. Mooney asked why the Horse Show was considering selling the grounds and if they intended to move the show.

Mr. Cureton responded that the reality of the situation is if the horse show association so chose, it is zoned for residential. They could sell it to a developer, and they could construct on 37 lots right there. But they don't intend to sell to developers as they've been here since 1920.

Discussion from the Council continued on the zoning of the park, the use, and potential negotiations with the seller as well as the potential future uses and layout of the park.

Mr. McGuire asked for a more detailed history of the proposal before the Council.

Mr. Cureton answered questions regarding operating costs, initial costs and necessary maintenance improvements to the facility.

The mayor instructed staff to add the item to New Business for further discussion at the evening session and to invite the owners of the Horse Show Grounds to attend the meeting and answer questions from the Council.

3. Speed limits of 15 mph Streets Within the Town Limits Study Review

Chief Timothy Carter introduced the topic. He explained that a speed study had been conducted in Town by Kittelson and Associates to address speed limits on multiple streets. The chief highlighted what the data from the report was showing and gave details on various streets. He explained that staff requested direction on the will of the Council regarding the current posted speed limits on each of the 14 streets evaluated in Kittelson's study.

Councilmen Heroux requested clarification on if the report supported the roads currently signed at 15Mph remained signed at the speed limit.

Chief Carter explained that the report showed that the speeds were signed correctly the way they were, but the Council could change the limits based on the desired outcome of the posted speed limit. He explained the data and how the reports were necessary under the State Code for enforcement as well as the downsides to potentially changing the posted limits.

Mayor Nevill summarized the consensus from council to keep the streets posted at 15mph with a clarification of Faulkner Ave to see it as 15mph all the way through because of the park.

The Chief elaborated on the necessary requirements of the State code with the addition of the presumed 25mph roads to enable enforcement of the zones.

Councilmen Heroux requested suggested that additional measures may be necessary on some roads to ensure that traffic slows down.

4. Health Center Agreement Update

Ms. Kasey Braun, Human Capital Manager, introduced the topic. She mentioned that Staff was still in negotiations with the County. She added that the County was currently making improvements to the building, and they anticipated the renovations to be completed by July.

Mr. Cureton added that the County planned to open the facility for operation on July 1st, but at that point the Town would not have full use of the facility as contract negotiations were ongoing.

Mayor Nevill inquired as to the required actions of the Council and if it would be to sign off on the agreement.

Mr. Cureton confirmed the mayor's question.

5. Town Council Ethics Statement

Mr. Cureton introduced the topic stating that the statement had been previously introduced to the Council and that the requested information and examples from the Town of Leesburg and the Virginia Department of Professionalism and Occupation regulation code of ethics was provided. He continues stating that this ethics piece was a part of the ongoing discussion regarding the Town Council Handbook that staff were awaiting feedback on from the members of Council. He stated that Staff will continue their work on the handbook while awaiting updates from the Council and the final draft would be brought forward in the next few months. He stated that no action was being requested of Council at this time.

The Council confirmed that updates, changes, and suggestions regarding the handbook and the ethics statement could still be submitted to staff.

Councilmen Semple commented that the current code of ethics was written in 2016 but modified in 2020. He also requested additional examples of Codes of Ethics from Fauquier County.

6. Biannual Goals

Mr. Cureton introduced the topic stating that the discussion began at the Fall strategic retreat. He stated that the intention of the Biannual Goals is to bridge the gap and lay the pathway to successfully accomplish the goals laid out in the Comprehensive Plan.

Mr. Cureton introduced a proposed draft of the biannual goals.

Mayor Nevill explained to the new councilmembers that a strategic retreat would be held in the fall which would allow the Council an opportunity to review the biannual goals and the implementation as the staff beings the budget process in October.

Councilmen Heroux inquired if the proposed goals would affect the budget presented.

Mayor Nevill explained that the goals identified in the strategic retreat were implemented in the current budget process and that the goals before Council were a biproduct of those goals and the next steps moving forward.

Councilmen Heroux discussed the metrics that would be evaluated against within the goals to ensure that they are being met.

Mr Cureton explained that the metrics were built into the budget to be measured against.

7. Agenda Review

Mr. Cureton reviewed the budget with the Council. He introduced Rob Walton, Director of Community Development, to introduce the Public Hearing.

BLA 2022-3 187 Linden Street Boundary Line Adjustment.

Mr. Walton explained that there was a work session on this item in August of 2022 and that the owners of the parcel, Carolyn and Scott Shafer, were seeking a requesting a boundary line adjustment between the Town of Warrenton and their property known as 187 Linden Street. Approval of the request would result in the dedication of a 10-foot-wide strip of property to the Town (615 square feet) in exchange for a 1,178 square foot portion of the Washington Street right-of-way. The portion of right-of-way allows the existing house to be legal conforming to setbacks. The dedication to the Town will allow for fee simple access to existing Town Utilities.

Mr. Walton showed the Council an arial view of the parcel and explained what parts of the property would be boundary line adjusted. He surmised that by allowing the boundary line adjustment, it would actually make the house or the structure conforming right now legally non-conforming because it doesn't meet setbacks.

Mayor Nevill stated that the item would continue with the public hearing at the evening session.

Mr. Cureton continued reviewing the agenda noting that there was a proposed Resolution designating Hunter Diggs as the fire official, property maintenance official and provisional building official.

Mr. Walton added that Mr. Diggs had taken the first of three certification tests for building official certification about a week and a half ago and that the certification was proceeding well.

Mr. Cureton continued reviewing the agenda.

Mr. Semple proposed an amendment to the agenda a resolution to Amendment text Amendment to our zoning ordinance that would provide no development activity involving the site plan may begin until such site plan is approved. He mentioned that he was bringing forward this proposal in response to the Amazon Data Center site cutting down trees on the property before the site plan has been approved.

Olaun Simmons, the Town Attorney stated that discussion regarding the legality of the proposal could be held in closed session.

Mr. Semple stated that a Closed session on the next month agenda to discuss this would suffice.

The mayor directed staff to add that item to the next agenda with a closed session for discussion.

8. Fiscal Year 2023-2024 Budget Presentation

Ms. Stephanie Miller, Finance director, introduced the proposed Fiscal Year 2024 Budget. She continued explaining that staff has spent the last eight months renewing our focus on playing more in ten, 2040 and aligning our plans and actions with the council's mission, vision and values. The budget was developed based on the feedback that we heard from Council during the fiscal retreat and what we see here in these statements.

Ms. Miller advised that at the fiscal retreat, the Human Capital Manager highlighted the need for funding to address human capital needs. The result of this analysis was a recommendation to shift some of this funding to cover the classification and compensation results, and to provide a balance of cash and debt funding for general fund capital. Another suggestion for Council was the lowering of the fund balance policy to address those needs if desired. She added that staff had also reviewed the CIP.

The largest aspect of the CIP is the water and sewer program. The Council received a presentation in December that noted the age of the facilities and provided an overview of the planned projects to address deferred maintenance. The CIP has been provided to our rate study consultant and they continue to work with our financial advisors to plan the rates and the issuance of debt so as to properly fund the necessary projects and to balance that with potential rate increases.

Ms. Miller elaborated that she called this to Council's attention because the rates in the budget are preliminary and could be adjusted based on their work, which will be presented to the council in May. She reminded Council that when staff budgeted our revenue for 23, we were still very conservative in that estimate because we didn't know how the economy would respond coming out of COVID. So many of our larger revenue sources are now projected to come in higher than the budget.

This includes sales, bank franchise tax, meals, tax, lodging, tax, interest revenue and WARF charges. She explained that finance is seeing lower revenue for some of the smaller categories of cigarette tax permits and fines. Staff has also anticipated expenditure savings due to the nature of capital projects. Staff needs the entire amount budgeted, but they typically span at least two fiscal years.

Ms. Miller explained that the Town used some ARPA funding in FY 23 that alleviated some of the burden from the general fund and highlighted other impacts on the general fund and the proposed FY24 budget.

Ms. Miller continued that the proposed budget would cause the general fund to fall below the 9.3 million policy threshold of 50% and added that adjusting the policy to 45% would cover the discrepancy.

She next focused on the key enhancements for FY 24, in the human capital area. The last class and Comp study was conducted in 2015, which resulted in a stagnation of the pay scale for the Town. Ms. Kasey Braun, the Human Capital Manager, has reviewed the preliminary results and recommendations of the latest study with you at the fiscal retreat, and that council agreed with those recommendations. As such, that has been included in the budget. The total cost is a little over \$1 million across all funds. There is also a proposed change in the date of the merit increase that would normally happen on July 1st. That change would be closer to the employee's actual receipt of their evaluation each year.

Former Interim Town Manager Mr. Martino recommended that staff implement the change to the date of the merit increase this year to April 1st instead of July 1st. Then, as of next fiscal year, move it permanently to January 1st. This year, the first year of implementing that change to January 1st, it will actually be a savings since we would normally do it on July 1st.

Ms. Miller continued noting that there was no health insurance rate increase this year and that staff had programmed a vacancy savings for the first time. She elaborated that this is done by a lot of Northern Virginia localities and that she had tracked our budget to actual for personnel expenditures back to 2014. She explained that the Town consistently sees savings of roughly 94% to 95% of the budget year over year as there are always some vacancies. She added that this was programmed in the general fund only because the general fund is the largest fund for the town with roughly 80% of the employees are in the general fund.

Ms. Miller elaborated on the changes made to the internal service funds to increase transparency, tracking, and understandability.

The presentation continued with a review of the general fund projects and the changes to the CIP that have been identified by staff to address the maintenance and condition of the facilities that was presented to council in December.

She explained to the Council that in FY23 so that we may ensure continuous and effective operation of the system for its users the Council issued \$5.15 Million in debt which will be used to fund these projects in addition to ARPA funds that have been set aside. Davenport and NewGen will be presenting proposals to the Council in May to discuss funding for other large-scale projects. She then reviewed the storm water fees and projects.

Ms. Miller reviewed the proposal to eliminate the \$25 Motor Vehicle License fee. She elaborated on how the revenue would be maintained with various examples.

Ms. Miller explained that the next steps in the budget process be adopting the real estate tax and personal property tax by May 14th as stated by the Town Code. Adding that that adoption could be done at the May 9th Town Council Meeting. She also reviewed additional work session dates that Staff had made available if the Council wished to hold another work session.

The Town Council decided to hold an additional work session on the budget on April 26th, 2023, at 6:30pm and directed staff to facilitate that meeting.

Mayor Nevill encouraged all members of the Council to meet with Ms. Miller with any budget questions they had.

Councilmen Semple requested to review the remaining ARPA funds.

Mr. McGuire requested a breakdown of the requested roles as well as a breakdown of the Police Department staffing.

Mr. Heroux requested analysis of the impact of inflation on the budget.

The mayor thanked Ms. Miller and requested that Council forward her all of their questions so that she and staff may address them.

Mayor Nevill thanked the Staff and Council for the morning session and concluded the meeting at 12:29pm.

REGULAR MEETING - 6:30 PM

INVOCATION.

Tim Vance of the Amissville Full Gospel Church led the invocation.

PLEDGE OF ALLEGIANCE.

Mayor Nevill Led the Pledge of Allegiance

CITIZEN'S TIME.

Citizen's time Sign in Town Council Regular Meeting: April 11th, 2023		
Name	Address	Topic
David Winn	7960 Wellington Dr. Warrenton	Amazon Permits
Diane Roteman	280 Gay Road, Warrenton VA	Speed Limits

APPROVAL OF THE AGENDA.

Mayor Nevill sought a motion to approve the agenda.

Motion put forth by Councilmen Hamby was to approve the agenda.

Seconded by Councilmen Heroux.

The vote was as follows:

Ayes: Ms. Heather Sutphin; Mr. William Semple; Mr. Brett Hamby; Mr. Jay Heroux; Mr. David McGuire, Mr. Paul Mooney.

Nays:

Abstention:

Absent: Mr. James Hartman, Vice Mayor.

The motion passed unanimously; the agenda was approved.

PUBLIC HEARINGS.**1. BLA 2022-3 187 Linden Street Boundary Line Adjustment**

Mayor Nevill introduced the Topic.

Councilmen Mooney inquired as to the purpose of the Town owning the land in the triangle area located behind the adjustment.

Mr. Walton indicated that there were utilities on that parcel and that this adjustment would allow the Town to access the utilities from its own property.

The Public hearing was opened at 6:40pm.

No one spoke at the public hearing.

The Public hearing was Closed at 6:40pm.

Public Hearing: BLA 2022-3 187 Linden Street Boundary Line Adjustment		
Name	Address	Organization or Individual

Mayor Nevill sought a motion on the item.

Motion put forth by Councilmen Hamby was to approve BLA 2022-3 187 Linden Street Boundary Line Adjustment

Seconded by Councilmen Mooney

The vote was as follows:

Ayes: Ms. Heather Sutphin; Mr. William Semple; Mr. Brett Hamby; Mr. Jay Heroux; Mr. David McGuire, Mr. Paul Mooney.

Nays:

Abstention:

Absent: Mr. James Hartman, Vice Mayor.

The motion passed unanimously; BLA 2022-3 187 Linden Street Boundary Line Adjustment was approved.

CONSENT AGENDA.

1. The 2022 Planning Commission Annual Report as required by Virginia State Code is presented “to the governing body concerning the operation of the commission and the status of planning within its jurisdiction.”
2. A Resolution announcing a Special Meeting on the Fiscal Year 2024 Budget and the potential acquisition of real property in Town limits.
3. **APPROVAL OF COUNCIL MINUTES.**
 1. October 11th, 2022: Regular Town Council Meeting Minutes
 2. February 10th, 2023: Special Town Council Meeting Minutes
 3. February 22nd, 2023: Special Town Council Meeting Minutes
 4. March 1st, 2023: Special Town Council Meeting Minutes

Mayor Nevill sought a motion on the item.

Motion put forth by Councilmen Heroux was to approve the Consent Agenda.

Seconded by Councilmen Hamby.

The vote was as follows:

Ayes: Ms. Heather Sutphin; Mr. William Semple; Mr. Brett Hamby; Mr. Jay Heroux; Mr. David McGuire, Mr. Paul Mooney.

Nays:

Abstention:

Absent: Mr. James Hartman, Vice Mayor.

The motion passed unanimously; the Consent agenda was approved.

NEW BUSINESS.

9. Acquisition of Real Property- Horse Show Grounds

Mr. Cureton introduced the topic to the Council. He elaborated that staff had worked diligently throughout the day to answer the questions from Council. He added that staff have added the item to the special meeting on April 26th to allow more time to answer the questions more thoroughly and completely. He added that Councilmen Hamby was able to invite a representative from the Horse Show Grounds and introduced Mr Tommy Jones.

Mr. Tommy Jones, the manager of the Warrenton pony show and Warrenton horse show, addressed the Council. He explained that the horse show grounds entered into this agreement with the Town in response to pressure from the nursing home being built behind the grounds, adding that they knew nothing about it until it was a done deal. Mr. Jones explained that the grounds were a valuable piece of property that the organization would like that to remain in Town as is in perpetuity. He advised that the Organizations views this purchase as a partnership with the Town and that they will support the show at the location going forward. He added that it is difficult these days to run a one ring horse show and that most shows are much larger with 5-6 rings and 1,500 horses. While the grounds don't have the space to facilitate that, you can't move the Warrenton horse show anywhere else and expect it to be the Warrenton Horse show. He offered to answer questions from the Council.

Mr. McGuire requested a list of board members form the Horse Show grounds and what it would take in terms of membership to facilitate the sale.

Mr. Jones answered that it would only take a majority vote by the Board of Directors and that they have not yet had offers to purchase the grounds from others. He elaborated on the history of the grounds.

The Council discussed additions to the contract to retain the Warrenton Hose show on the grounds as well as other possibilities and uses for the location.

Mr. Jones explained the idea of a passive park where people could enjoy the grounds while the Horse Show association still maintained the rings and facilities for the Horse show.

Mr. Mooney requested a list of the members that would financially benefit from the sale.

Council discussed language revolving around the Horse Show Grounds continuing to operate on the grounds for the years to come.

Mr. Herou summarized that the Horse Show Association has been operating and for some reason the business models changed, and the Association wants to do something different with that property. He asked Mr. Jones if the intent was that the associations wanted to see that land protected as an asset to the community to enjoy and for the horse community to continue to use.

Mr. Jones confirmed.

Mr. Heroux spoke in favor of the transaction.

The Council discussed their history with the grounds and the show and options for the park in the future.

Mayor Nevill thanked Mr. Jones and called the transaction a win for not only the Town of Warrenton, but also the residents of Fauquier.

10. Appointment of an Interim Town Manager

Mayor Nevill introduced the topic stating that While Mr. Cureton has been fulfilling the duties of the Acting Town Manager, he wished to resume his duties as the Director of Parks and Recreation. He thanked Mr. Cureton for both his service prior to the appointment of Mr. Martino and in his absence as well. He declared that Mr. Cureton held the reigns firmly with great authority and that the Council appreciated his efforts.

Mayor Nevill stated that Mr. Frank Cassidy has duly offered to step up from within the Staff to serve as the Interim Town Manager through the upcoming fiscal year or until a new Town Manager is appointed once the Council reconvenes the search.

Mr. Cassidy addressed the Council and thanked them for the opportunity to lead this dynamic team looking to do great things for this Town. He thanked Mr. Cureton for getting the team to where they are and Mr. Martino for helping to stabilize and lay our goal to continue this momentum. He said that he was looking forward to the opportunity and looking forward to a hopefully unanimous vote.

Mayor Nevill sought a motion to approve the agenda.

Motion put forth by Councilmen Heroux To appoint Frank Cassidy as the Interim Town Manager for the town Of Warrenton, Virginia.

Seconded by Councilmen McGuire.

The vote was as follows:

Ayes: Ms. Heather Sutphin; Mr. William Semple; Mr. Brett Hamby; Mr. Jay Heroux; Mr. David McGuire, Mr. Paul Mooney.

Nays:

Abstention:

Absent: Mr. James Hartman, Vice Mayor.

The motion passed unanimously; Frank Cassidy was appointed the Interim Town Manager for the Town of Warrenton Virginia.

11. A Resolution designating Hunter A. Digges as the Fire Official, Property Maintenance Official, and Provisional Building Official

Mayor Nevill thanked Mr. Diggs for his professionalism and marked his dedication and efforts of his training.

Mayor Nevill sought a motion to approve the agenda.

Motion put forth by Councilmen Heroux to designate Hunter A. Diggs as the Fire Official, Property Maintenance Official, and Provisional Building Official

Seconded by Councilwoman Sutphin.

The vote was as follows:

Ayes: Ms. Heather Sutphin; Mr. William Semple; Mr. Brett Hamby; Mr. Jay Heroux; Mr. David McGuire, Mr. Paul Mooney.

Nays:

Abstention:

Absent: Mr. James Hartman, Vice Mayor.

The motion passed unanimously; Hunter A. Diggs was designated as the Fire Official, Property Maintenance Official, and Provisional Building Official.

UNFINISHED BUSINESS.

None.

TOWN ATTORNEY'S REPORT.

Mr. Olaun Simmons shared a result of a Virginia Supreme Court Case Berry Vs. The Fairfax County Board of Supervisors. The Board of Supervisors had adopted an ordinance at a virtual meeting that was in conflict with the emergency ordinance that they had previously adopted. The court held that because it was held as an all-virtual meeting, the ordinance they adopted was invalid. This does not affect the Town at this time but it is something that the Attorney's are keeping an eye on.

Mr. Mooney requested an update on the Walmart case.

Mr. Simmons responded that there was not an update yet but would reach out when there was.

TOWN MANAGER'S REPORT.

Mr. Cureton offered a shot out to the public works and facilities team with their reaction to a fire at the WARF. He noted that the Parks and Rec team sprang into action with the activation of the EAP and that the follow-up after from Mr. Switzer and the facilities team has been second to none.

Mr. Cureton stated that he was excited to return to the Staff and thanked the Council for the support they have shown him over the last nine months.

Mr. Cureton offered congratulations to Mr. Cassidy. He stated that he has been fortunate to work with Frank for the last 2 and 1/2 years, and his professional approach and integrity epitomize the values that make this Town great. He added that he could speak for all of Town staff in saying that Frank has our complete support, and we look forward to his leadership in the coming year. Thank you all.

COUNCILMEMBERS TIME.

Mr. Mooney: Congratulated Mr. Cassidy on his appointment. Congratulated Mr. Diggs on his designation and thanked the citizens for coming out and putting in the effort to come out. He thanked Tommy for the effort and flexibility of being in and out of the Town Manager position.

Ms. Sutphin: Congratulated Mr. Cassidy adding that he would do a wonderful job. She congratulated Mr. Diggs and Mr. Cureton. She mused that she had never heard a Town Employee say, "That's not my job". She thanked the Staff explaining that many of our employees go far beyond what they're ever called to do. And it's usually with a smile. It's a huge team full of people who never say, "it's not my job". She said that she was proud of the work they've done and of the efforts of the employees in the Town. She thanked the Staff and said she was proud of the work that Frank and Tommy had done. She told Vice Mayor Heartman that our prayers are with you.

Mr. Semple: Congratulated Mr. Cassidy, adding that he already appreciated how direct he was. He encouraged the citizens present in the evening session to go back and watch the morning session as a lot of the substance of the conversations happen at those meetings. Those work sessions show how the Council arrives at the decisions they make. He added a personal plug that his wife and the Master Gardeners are having an event on Earth Day at Town hall from 1-3pm with demonstrations, a raffle, and speakers. He concluded that he looked forward to working with Mr. Cassidy.

Mr. Hamby: Stated that he echoed his fellow Councilmembers, Tommy, thank you, Frank Congratulations, and Hunter, Congratulations He thanked the Horse Show ground Association for joining this evening and thanked as always, the citizens who came to the meetings. He added that when the pipe broke at the WARF, he thought it was bad by the email but when he drove to the parking lot it really showed it was bad. He was impressed by the response from the Staff to

the incident and expressed gratitude to the hard work and efforts made by the team to reopen the facility.

Mr. Heroux: Confirmed with the Mayor that the direction from the Council on the speed limits was to post the roads at 15mph for consistency among the connecting streets. He thanked Tommy for the great job that he did as Town Manager. He congratulated Mr. Cassidy and Mr. Diggs, adding that he was looking forward to working with them. He explained that he was excited about the energy and momentum that the Town had. He thanked the Chief and Frank for the efforts they've made on speeding already and urged the citizens to slow down around Town. He Echoed Mr. Hamby regarding the staff efforts with the water main break at the WARF and the other numerous breaks around Town. He stated that it was the efforts of Staff when the water main breaks in the middle of the night and the freezing cold trying to close the pipe. He added that the Town had some old infrastructure, and it was up to the Staff to keep it maintained. He added that there were a lot of individuals who suffer from homelessness, abuse, and addiction and to keep them in your prayers.

Mr. McGuire: He spoke on the budget process and the variables that need to be looked at by the Council to address a target that would fall a year from now. He encouraged the members of the audience to read the minutes and watch the videos from the earlier session to be informed. He also encouraged citizens to get involved with their local Government. He thanked the staff and on the Dias for the work that was done today.

Mr. Nevill: Echoed the congratulations for the promotions, acknowledgements, resolutions and response to the break at the WARF. He thanked Tommy Cureton for the relationship that he has had working together, noting that he rose to the challenge and served admirably. He added that he was looking forward to continuing to work with him as he advocated for the Parks and Recreation Department.

ADJOURNMENT.

With no further business, this meeting was adjourned at 7:28 PM on Tuesday, April 11th, 2023.

I hereby certify that this is a true and exact record of actions taken by the Town Council of the Town of Warrenton on April 11th, 2023.

Stephen M. Clough
Town Recorder

Attachments:

- 1) Handouts to Council from Citizen's time. April 11th, 2023.
- 2) Citizen Comment Emails and form submissions.
- 3) Signed legislation.

Draft: Not yet adopted by the Town Council.



The Town of Warrenton
P.O. Box 341
Warrenton, VA 20188
P (540) 347-1101
F (540) 349-2414

April 11th, 2023 Regular Town Council Meeting
Minutes

Attachment 1: Handouts to Council from Citizen's
time. April 23, 2023

Draft: Not yet adopted by the Town Council.



The OAKS SDP-22-8



The Town of Warrenton
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April 11th, 2023 Regular Town Council Meeting
Minutes

Attachment 2: Citizen Comment Emails and form
submissions.

Draft: Not yet adopted by the Town Council.

From: "Mike Yeatman" <[REDACTED]>
Sent: Fri, 24 Mar 2023 21:37:13 +0000
To: "citizencomment@warrentonva.gov"
<citizencomment@warrentonva.gov>
Subject: Are you enforcing the Amazon Data Center SUP provisions???

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

From what I can see, you are not! And you remain silent on this topic. Very, very alarming. Please do something about it.

Thank you.

Draft: Not yet adopted by the Town Council.

From: "Andrea Steegmayer" <[REDACTED]>
Sent: Mon, 10 Apr 2023 11:17:15 0400
To: "" <citizencomment@warrentonva.gov>
Subject: Bats and trees

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

I am ashamed to hear what this town has allowed to happen and is complicit in! Shame shame on all of you!!! It is disgusting to know Dollar signs is all that matters ! All of you should be fired in the spot without severance pay or anything!!!

What gives you all the right to destroy this habitat and not follow the rules? Why do you think you above it ? If we do not follow the rules then we get fined.

I am so angry and frustrated !!!!!!!!!!!!!!!

Everyone there draws a big salary paid by residents and you all disregard all the rules!

D... everyone of you! You have done irreparable damage and you all should go!

You all should not even be allowed to resign

A. Steegmayer

Sent from my iPhone

Draft: Not adopted by the Town Council.

From: "Kay Dunleavy" <[REDACTED]>
Sent: Fri, 24 Mar 2023 14:44:10 0400
To: "" <citizencomment@warrentonva.gov>
Subject: Amazon disregard for SUPs

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

As our representatives in this disturbing situation, it falls upon you to ensure that this arrogant behemoth respects the rules of our beloved town and county. We ask that you see to it that they do not ignore the Special Use Permit requirements that keep our town and county beautiful and our lands protected. It is outrageous that this project has been approved in the first place. A travesty to the town of Warrenton and to all of us who cherish our country charm way of life here.

Draft: Not adopted by the Town Council.

From: "Michael Bruck" <[REDACTED]>
Sent: Tue, 14 Mar 2023 15:09:47 +0000
To: "citizencomment@warrentonva.gov"
<citizencomment@warrentonva.gov>
Subject: SUP 2022 03 data center vote and maladministration liability
Attachments: The community recognizes only as invalid and unrepresentative
of the will of the community the Town Council.docx

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Draft: Not yet adopted by the Town Council.



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Warrenton, VA 20188
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Draft: Not yet adopted by the Town Council.

April 11th, 2023 Regular Town Council Meeting
Minutes

Attachment 3: Signed legislation

April 11, 2023
Town Council
Regular Meeting

A RESOLUTION ANNOUNCING A SPECIAL MEETING ON THE FISCAL YEAR 2024 BUDGET AND THE POTENTIAL ACQUISITION OF REAL PROPERTY IN TOWN LIMITS

WHEREAS, the Town Council received the Fiscal Year 2024 Budget on March 31st, 2023; and

WHEREAS, at the April 11th, 2023, Town Council work session the budget was reviewed with potential dates for additional work sessions; and

WHEREAS, The Town Council reviewed the budget information and the information presented on the potential acquisition of real property; and

WHEREAS, the Warrenton Town Council wishes to hold a special meeting on April 26th, 2023 at 6:30 PM; and

WHEREAS, the Warrenton Town Council wishes to receive an update to questions on the potential acquisition of real property in Town limits regarding the Warrenton Horse Show Grounds; and

NOW, THEREFORE, BE IT RESOLVED that the Warrenton Town Council Hereby will hold a Special Meeting on the Fiscal Year 2024 budget and receive updates from the Staff on the Potential Acquisition of Real Property for the Horse Show Grounds;

BE IT FURTHER RESOLVED that the Town Council Directs Staff to advertise for the special meeting.

ATTACHMENT:

Votes:

Ayes: Ms. Heather Sutphin; Mr. William Semple; Mr. Brett Hamby; Mr. Jay Heroux; Mr. Paul Mooney; Mr. David McGuire.

Nays:

Absent from Meeting: Mr. James Hartman, Vice Mayor.

For Information:

Town Manager

Town Clerk

ATTEST:  _____
Town Recorder

April 11, 2023
Town Council
Regular Meeting
Res. No. From Clerk

A RESOLUTION DESIGNATING HUNTER A. DIGGES AS THE FIRE OFFICIAL, PROPERTY MAINTENANCE OFFICIAL, AND PROVISIONAL BUILDING OFFICIAL

WHEREAS, Hunter Digges was promoted to the position of Code Enforcement Inspector/Fire Inspector on February 21, 2022 with the Department of Community Development; and

WHEREAS, Mr. Digges passed his property maintenance inspection certification course on May 13, 2022 ; and

WHEREAS, Mr. Digges received the Property Maintenance Official Certification from the Commonwealth of Virginia on May 18, 2022; and

WHEREAS, on February 9, 2023 Mr. Digges passed his fire inspection certification exam and is recognized by the Commonwealth of Virginia as a Fire Official; and

WHEREAS, on February 17, 2023, Mr. Digges was sworn in by the Clerk of the Circuit Court of Fauquier County to faithfully and impartially discharge and perform all the duties incumbent as Fire Inspector for the Town of Warrenton, Virginia pursuant to the Code of Virginia Title 27-34.2; and

WHEREAS, Mr. Digges has begun pursuing the exams required to become certified as a Building Official by the Commonwealth of Virginia; and

NOW, THEREFORE, BE IT RESOLVED that the Warrenton Town Council Hereby designates Hunter A. Digges as the Town of Warrenton Fire Official, Property Maintenance Official, and Provisional Building Official.

ATTACHMENT: None

Votes:

Ayes: Ms. Heather Sutphin; Mr. William Semple; Mr. Brett Hamby; Mr. Jay Heroux; Mr. Paul Mooney; Mr. David McGuire.

Nays:

Absent from Meeting: Mr. James Hartman, Vice Mayor.

For Information:

Town Clerk
Town Attorney

ATTEST:  _____
Town Recorder

FORM MOTION FOR CONVENING A CLOSED MEETING April 11th, 2023.

I move that the Council convene in closed session to discuss the following:

As permitted by Virginia Code § 2.2-3711 (A)(1), a personnel matter involving: Discussion, consideration, or interviews of prospective candidates for employment or appointment; OR assignment, appointment, promotion, performance, demotion, salaries, disciplining, or resignation of specific public officers, appointees, or employees of the Town; specifically dealing with **Interim Town Manager Appointment**

As permitted by Virginia Code § 2.2-3711 (A)(3), a matter involving: discussion or consideration of the acquisition of real property for a public purpose; OR disposition of publicly held real property specifically involving _____ [Give location of property], because discussion in an open meeting would adversely affect the City's bargaining position or negotiating strategy.

As permitted by Virginia Code § 2.2-3711 (A)(4), a matter requiring the protection of the privacy of individuals in personal matters not involving the public business.

As permitted by Virginia Code § 2.2-3711 (A)(7), consultation with legal counsel or briefing by staff members or consultants pertaining to: probable litigation involving _____ [Give subject]; OR the pending case of _____ [Give case name], where such consultation or briefing in open meeting would adversely affect the negotiating or litigating posture of the City.

As permitted by Virginia Code § 2.2-3711 (A)(8), consultation with legal counsel regarding specific legal matters requiring the provision of legal advice by such counsel, relating to **Speed Limits in the Town**

As permitted by Virginia Code § 2.2-3711 (A)(29), discussion of the award of a public contract for [Give nature of the contract] involving the expenditure of public funds, including interviews of bidders or offerors, and discussion of the terms or scope of such contract, where discussion in an open session would adversely affect the bargaining position or negotiating strategy of the City Council.

As permitted by Virginia Code § 2.2-3711(A)(19). a matter involving: _____

[IDENTIFY THE APPLICABLE PARAGRAPH OF § 2.2-3711(A) OR OTHER LAW AND GIVE THE SUBJECT MATTER AND PURPOSE FOR THE CLOSED SESSION.]

Votes:

Ayes: Ms. Heather Sutphin; Mr. William Semple; Mr. Brett Hamby; Mr. Jay Heroux; Mr. Paul Mooney; Mr. David McGuire.

Nays:

Absent from Meeting: Mr. James Hartman, Vice Mayor.

CERTIFICATION MOTION AFTER RECONVENING IN PUBLIC SESSION:
(requires a recorded roll call vote)

I move that the Council certify that, in the closed session just concluded, nothing was discussed except the matter or matters (1) specifically identified in the motion to convene in closed session and (2) lawfully permitted to be discussed in a closed session under the provisions of the Virginia Freedom of Information Act as cited in that motion.

Votes:

Ayes: Mr. William Semple; Ms. Heather Sutphin; Mr. Brett Hamby; Mr. Jay Heroux; Mr. Paul Mooney; Mr. David McGuire.

Nays:

Absent from Meeting: Mr. James Hartman, Vice Mayor.

For Information:
Town Clerk

Effective date: April 11th, 2023

Stephen Clough, Town Recorder

Draft: Not yet adopted by the Town Council.

April 11th, 2023
Town Council
Regular Meeting

A RESOLUTION APOINTING FRANCIS G. CASSIDY AS THE INTERIM TOWN MANAGER FOR THE TOWN OF WARRENTON, VIRGINIA

WHEREAS, pursuant to Town Charter Section 6-1 the Town of Warrenton is required to appoint a Town Manager; and

WHEREAS, Tommy Cureton was appointed as the Acting Town Manager on February 26th, 2023, for a forty-five day term; and

WHEREAS, Tommy Cureton's appointment as the Acting Town Manager was extended on March 14th, 2023 to extend through April 11th, 2023; and

WHEREAS, the Acting Town Manager's term expires on April 11th, 2023, thus creating a vacancy; and

WHEREAS, an Interim Town Manager is needed to fulfill the position until a new Town Manager is selected; and

NOW, THEREFORE, BE IT RESOLVED that the Warrenton Town Council Hereby is hereby appointing Francis G. Cassidy as the Interim Town Manager for the Town of Warrenton, Virginia, through June 30th, 2024, or until a new Town Manager is appointed.

ATTACHMENT: None

Votes:

Ayes: Ms. Heather Sutphin; Mr. William Semple; Mr. Brett Hamby; Mr. Jay Heroux; Mr. Paul Mooney; Mr. David McGuire.

Nays:

Absent from Meeting: Mr. James Hartman, Vice Mayor.

For Information:

Town Clerk

Town Attorney

ATTEST:  _____
Town Recorder



Office of the Town Manager

Frank Cassidy

STAFF REPORT

Warrenton Town Council

Carter Nevill, Mayor
Heather Sutphin, Ward 1
William Semple, Ward 2
Brett Hamby, Ward 3
James Hartman, Ward 4 Vice Mayor
Jay Heroux, Ward 5
Paul Mooney, At Large
David McGuire, At Large

Item a.

Council Meeting Date:	October 10 th , 2022
Agenda Title:	Utilities Project Update for Plants – CIP & Projects Update
Requested Action:	Information and Discussion Only
Department / Agency Lead:	Utilities
Staff Lead:	Steven Friend/Michael Wharton/Frank Cassidy

EXECUTIVE SUMMARY

Over the last two years, Utilities, working with third-party engineers and consultants, has developed a six-year CIP plan to map out and successfully upgrade their aging plants. This is a multi-year approach focused on addressing ongoing repairs while replacing aging, end-of-life equipment. The fundamental focus and identifying the scheduling has been an ongoing effort since 2015, and most likely prior. We refer to the 2015 report as the most recent report we used to build this model as our own assessment of the report, an updated report done by the same company, WRA, in 2022, and our own in-house assessment confirm our plan is based on facts and current conditions of the plants. The challenge moving forward is adjusting repairs while keeping the major construction projects on target. Most of the money spent over the years has been directed to emergency repairs to keep the plants running with the equipment they have. This plan is designed to modernize the equipment to today's standards and functions. This will increase reliability, redundancy, efficiency, and effectiveness especially when dealing with a critical service like water and sewer.

The Town operates a water plant and wastewater treatment plant delivering water and processing wastewater. These plants serve an essential service to all who live, visit, and enjoy the Town. Without a well-operating water and wastewater system, the Town would not be thriving.

As the Town grows and explores additional options for growth and development, it is essential both these plants operate at levels mandated by regulations and laws, as well as the expectations of customers. As these plants age and additional demands are expected from them, we need to encourage a healthy discussion on their capacities while acknowledging their limitations.

Both plants are currently going through upgrades and maintenance operations to ensure the consistent and proper operational aspects required by regulations and laws and to ensure water resources' quality. The WWTP is manifesting the equipment age and continually needs creative ways to repair, workaround, or manufacture systems as the equipment is aging and outdated. Plans for upgrades and replacement have been previously presented and part of operational planning for a few years. Given the recent need to offset budget costs by pushing out CIP expenditures, these repairs and upgrades are becoming failure points.

The purpose of this presentation is to provide an update on ongoing projects and the progression of the CIP. This is part of our ongoing efforts to present progress on major projects in Town and address questions and concerns as these projects move forward.

BACKGROUND

The Town's Public Utilities Department owns and operates an advanced wastewater treatment plant, 8 wastewater pump stations, almost 68 miles of sanitary sewer mains, a freshwater reservoir, 3 active wells, a water treatment and filtration plant, and 88 miles of water distribution system including 743 fire hydrants.

Utilities also provide oversight and control of the Town's water and wastewater treatment facilities; delivery systems; maintenance of the systems; and billing. A high-level breakdown of services is included later in this document.

WATER PLANT OPERATIONS:

The Source of Supply Section is responsible for the safe and efficient operation of the Town's municipal water supply assets. These assets consist of the water treatment plant, three remote wells, two surface water reservoirs, a booster station, a re-chlorination station, two water storage tanks, and the collection of all State and federally-regulated water samples. The operation strives to provide safe, aesthetically pleasing, and pleasant-tasting water to meet the demands of the Town's over 4,944 residential and commercial customers.

The treatment plant on Blackwell Road is permitted to treat 3.2 million gallons per day but is restricted by the safe yield of the reservoirs, which is 2.27 million gallons per day. Currently, the plant produces an average of 1.2 million gallons of water daily.

TRANSMISSION & DISTRIBUTION:

The division is responsible for the overall maintenance, repair, and servicing of over 87 miles of water lines and 69 miles of sewer. Activities include repairing main breaks, replacing old and deteriorated water/sewer lines, maintaining water and sewer line right of ways, and unstopping clogged sewage lines. They also include collecting data with flow meters to identify high areas of infiltration/inflow in the gravity sewage system, maintenance of over 734 fire hydrants, and responding to over 2,527 calls annually for Miss Utility field locations of water and sewage lines as mandated by law.

The Meter Division works under T&D and is responsible for reading 4,944 water meters and providing the data to the Finance Department for billing and revenue collection. In addition, the section provides routine maintenance to all customer meters, including the thawing of frozen meters due to extremely cold weather, the inspections required under the State's cross connection and backflow prevention programs, periodic calibration, and replacement of unserviceable meters. The meter calibration testing frequency depends upon their annual usage, wear and tear, and potential for revenue loss or generation. Staff also responds to customer concerns relative to unusually high or low water bills and often assists customers in identifying leaks in their service lines, homes, and

businesses. Unaccounted water loss has averaged less than 10% for the past several years, below the American Waterworks Standard of 13%.

WASTEWATER PLANT OPERATIONS:

The wastewater plant operates and maintains the Town's 2.5 million gallons per day (mgd) sewage and 8 sewage pump stations. The plant treats, on average, 1.8-2.0 mgd, with the operation responsible for protecting downstream waters by plant operations and monitoring for compliance with state and federal regulations.

Treatment begins at the head works with screening and grit removal, followed by primary sedimentation. The second process involves biological treatment with the newly constructed Moving Bed Biofilm Reactor (MBBR). The third phase employs chemical coagulation and flocculation, followed by secondary sedimentation. The final stage of treatment includes nutrient removal via deep bed filtration, disinfection with ultraviolet lamps, and post-aeration before discharge into the unnamed tributary to Great Run. Sludge generated by the treatment process is anaerobically digested, dewatered by a 2-meter belt press, hauled away by an outside contractor, and land applied. Annual nutrient limits for nitrogen and phosphorus are in effect to comply with actions to clean up the Chesapeake Bay.

STAFF RECOMMENDATION

WRA completed a Capacity Study in November of 2022. This study provided an overall assessment of water and wastewater operations moving forward, considering all potential future developments within the Town and incorporated with discussion on BLA, Tri-Party Agreements, and other requests for the Town to provide utility services. Based on this study, we are looking at the Water and Wastewater plants reaching their maximum capacities in 2040. The Wastewater Plant will reach the 2.5 MGD limit by the year 2030.

Given the study results, staff recommends moving forward with the outlined projects for maintenance and upgrades as discussed and identified in the CIP. We want to make the Council aware the order of the projects may change as we continue to move forward because of unexpected maintenance issues or other challenges. We highly encourage the Council to stay the course with the future improvements and maintenance of both these plants to ensure proper functioning while keeping in mind the challenges of adding more accounts to these systems.

This will require a resolution to clarify funding sources.

Service Level / Policy Impact

These projects are in line with the Plan Warrenton 2040, Goals as follows:

- **CF-4: Ensure healthy, safe, and adequate water and wastewater services.**
 - **CF-4.1:** Maintain a reliable and sufficient quantity of wastewater treatment capacity and an adequate quantity and quality of public water supply to meet the needs of expected long-term residential and commercial growth.

- **CF-4.2:** Meet the future infrastructure needs through careful planning and acquisition of required permits.
- **CF-4.3:** Reduce Infiltration and Inflow (I&I) and promote sustainability within the wastewater infrastructure system.
- **CF-4.5:** Evaluate and update the Town of Warrenton – Fauquier County Master Water and Sewer Plan's Tri-Party Agreement as needed, creating a regional strategy for future needs and reevaluating the Town boundaries in relationship to its service areas.
- **CF-4.8:** Explore resources to help property owners and promote connection to public.
- **CF-5: To provide a fiscally responsible infrastructure that maintains a high quality of life for residents, supports current businesses, and attracts new employers with a stable tax structure.**
 - **CF-5.1:** Implement robust maintenance schedules on community facilities to extend the life of investments.

CF-5.2: Support the Town's current and future population by providing timely and comprehensive community facilities.

Fiscal Impact

Budgeted CIP

Legal Impact

N/A

ATTACHMENTS

1. Updated Project Report
2. Presentation from December 2022 and related documents
3. 2015 WRA 2015 Report and PowerPoint presentation to Council
4. I&I memo and documents, March 2022
5. Reports and Charts from the 2022 Capacity Study

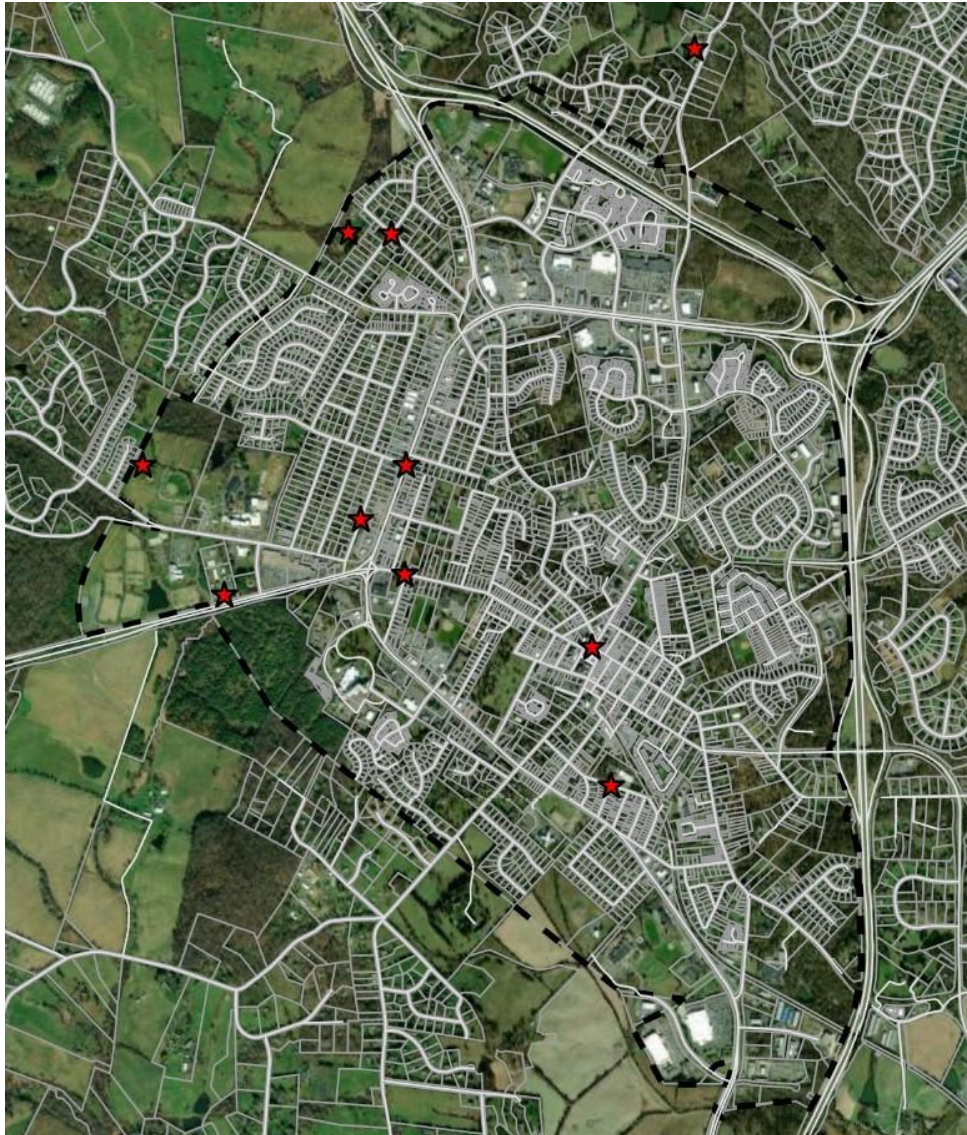


Item a.

The Town of Warrenton
P.O. Box 341
Warrenton, VA 20188
P (540) 347-1101
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October 2023 CIP Report

Capital Improvement Projects

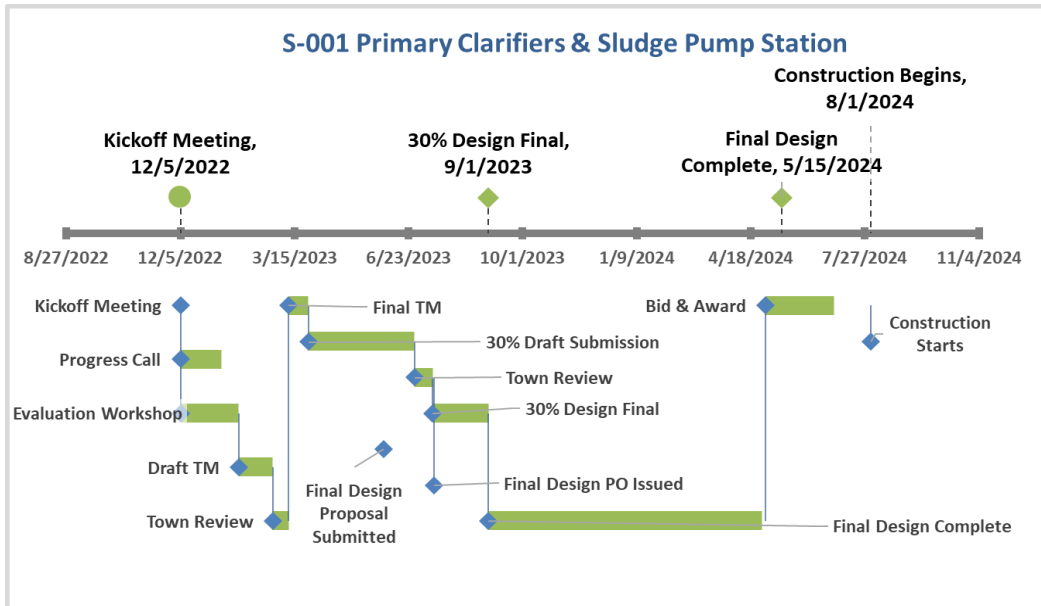


Project Name: S-001 Primary Clarifiers & Sludge Pump Station

Project Objective: Replace the existing primary clarifiers and sludge pumps.

Project Status Update: 30% design is complete and started working on final design

PROJECT SCHEDULE			
Phase (Task)	Start	Finish	% Complete
PE Design	December 5, 2022	September 1, 2023	100%
Final Design	September 5, 2023	May 15, 2024	0%
Project Bid	May 1, 2024	August 1, 2024	0%
Construction	August 1, 2024	September 1, 2026	0%
PROJECT BUDGET		PROJECT FUNDING SOURCE	
Design	\$ 474,682.00	Debt	\$ 2,274,682.00
Construction	\$ 6,950,000.00	Federal	\$ 4,500,000.00
		W&S Fund	\$ 650,000.00

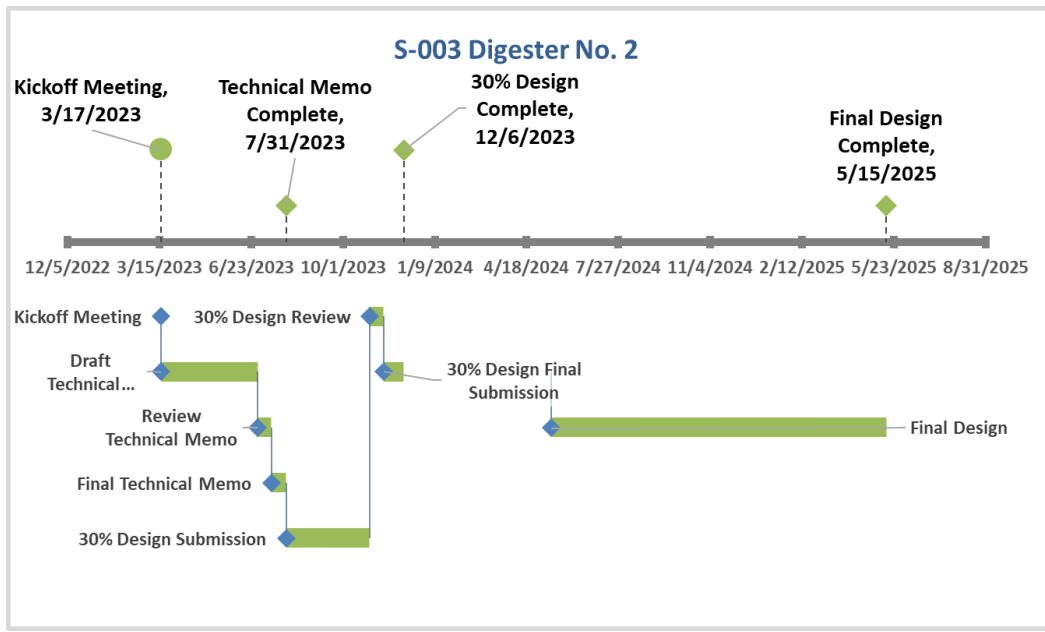


Project Name: S-003 Digester No. 2

Project Objective: A new digester to breakdown wastewater biosolids

Project Status Update: The designer is working on a technical memorandum.

PROJECT SCHEDULE			
Phase (Task)	Start	Finish	% Complete
PE Design	March 17, 2023	December 6, 2023	50%
Final Design	May 1, 2024	May 2025	0%
Project Bid			0%
Construction			0%
PROJECT BUDGET		PROJECT FUNDING SOURCE	
Design	\$ 642,433.00	Debt	\$ 6,063,750.00
Construction	\$ 6,063,750.00	W&S Fund	\$ 642,433.00

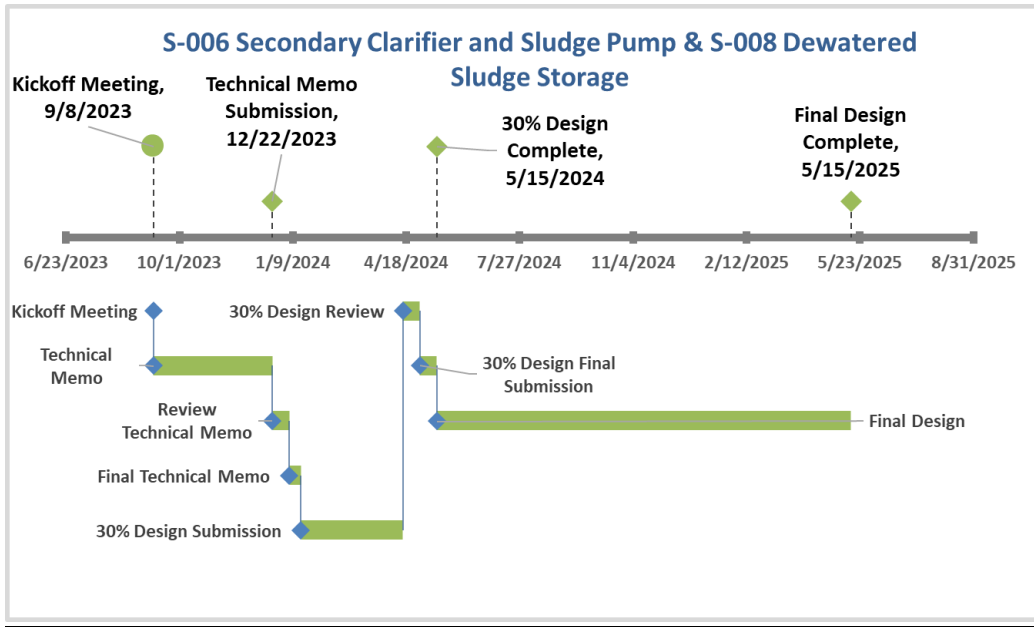


Project Name: S-006 Secondary Clarifier and Sludge Pump & S-008- Dewatered Sludge Storage

Project Objective: Replace the existing secondary clarifiers, sludge pumps and rehab the existing sludge storage structure.

Project Status Update: The designer has started working on the evaluation stage.

PROJECT SCHEDULE			
Phase (Task)	Start	Finish	% Complete
PE Design	March 17, 2023	December 6, 2023	5%
Final Design	May 1, 2024	May 2025	0%
Project Bid			0%
Construction			0%
PROJECT BUDGET		PROJECT FUNDING SOURCE	
Design	\$ 642,433.00	Debt	\$ 6,063,750.00
Construction	\$ 6,063,750.00	W&S Fund	\$ 642,433.00

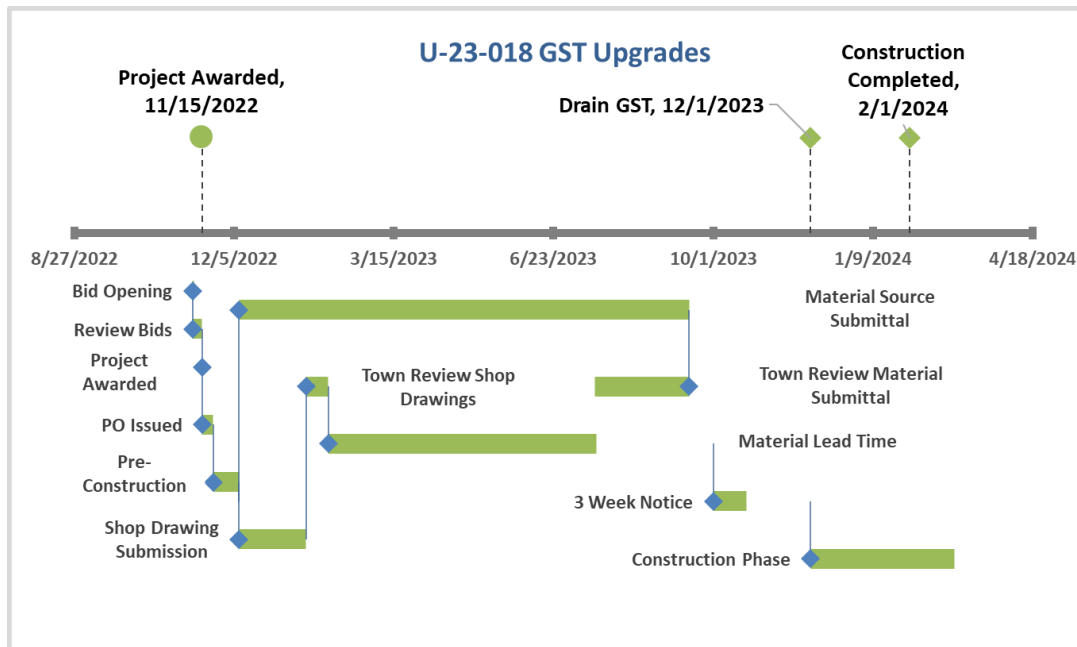


Project Name: U-23-018 GST Upgrades

Project Objective: Upgrade the existing Gravity Sludge Thickener.

Project Status Update: The project is delayed due to Winchester Plant not accepting any sludge. Expect to start work by December 2023

PROJECT SCHEDULE			
Phase (Task)	Start	Finish	% Complete
Project Award		November 15, 2022	100%
Construction	December 2023	February 2024	0%
PROJECT BUDGET		PROJECT FUNDING SOURCE	
Design		Debt	
Construction	\$ 546,844.00	W&S Fund	\$ 600,000.00

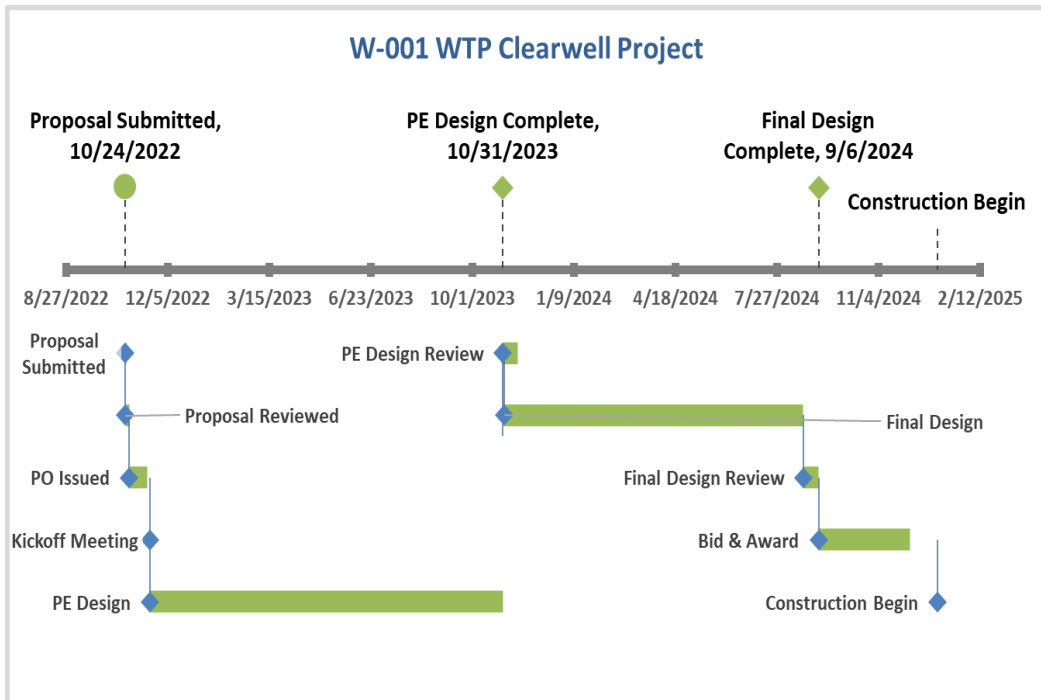


Project Name: W-001 WTP Clearwell Project

Project Objective: Study, design and construct a clearwell at the Water Treatment Plant. This will allow for additional resiliency.

Project Status Update: The designer is working on a technical memorandum and 30% design.

PROJECT SCHEDULE			
Phase (Task)	Start	Finish	% Complete
PE Design	October 24, 2022	October 31, 2023	80%
Final Design	November 1, 2023	September 6, 2024	0%
Project Bid	September 6, 2024	December 5, 2024	0%
Construction	January 1, 2025		0%
PROJECT BUDGET		PROJECT FUNDING SOURCE	
Design	\$ 595,000.00	Debt	\$ 5,775,000.00
Construction	\$ 6,609,000.00	W&S Fund	\$ 1,429,000.00



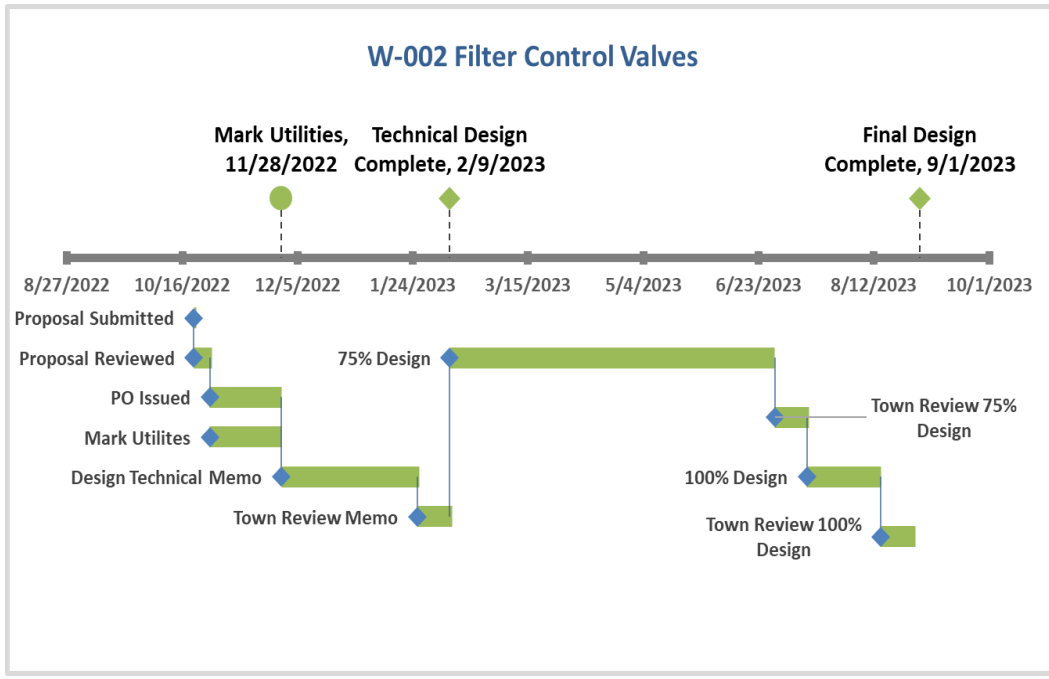
Project Name: W-002 Filter Control Valves

Project Objective: Replace the failing valves at the Water Treatment Plant. The current valves must be reprogrammed daily.

Project Status Update: The project is in the bid process at this moment, anticipated award mid-December 2023.

PROJECT SCHEDULE			
Phase (Task)	Start	Finish	% Complete
Design	November 17, 2022	September 1, 2023	100%
Project Bid	September 1, 2023	November 1, 2023	0%
Construction	December 2024	February 2025	0%

PROJECT BUDGET		PROJECT FUNDING SOURCE	
Design	\$ 97,763.00	Debt	\$ 750,000.00
Construction	\$ 1,000,000.00	W&S Fund	\$ 250,000.00



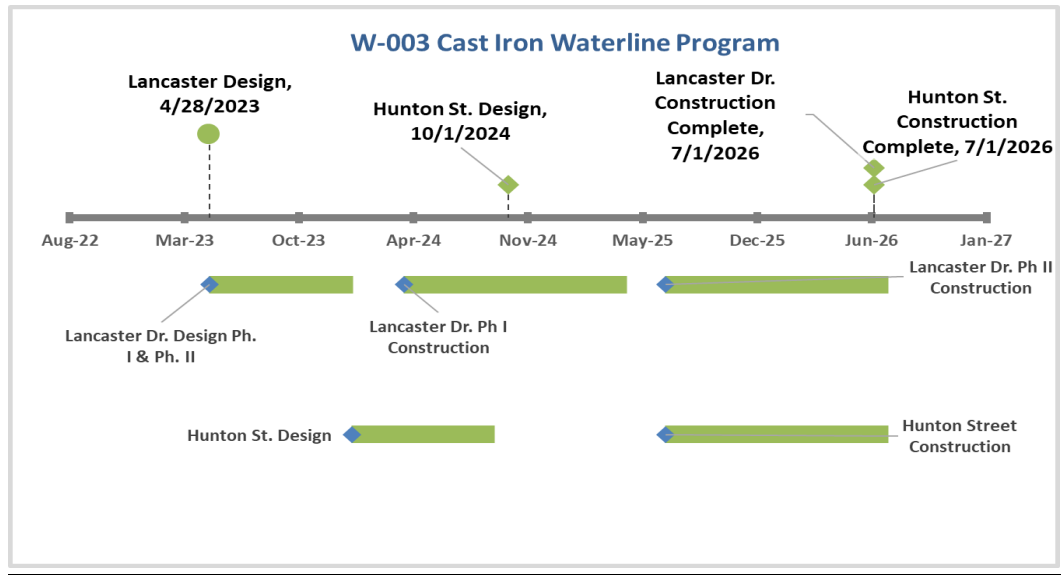
Project Name: W-003 Cast Iron Waterline Program

Project Objective: Replacement of problematic sections of the waterline system.

Project Status Update: This designer submitted geotechnical report for review and working on 50% plans for Lancaster Drive.

PROJECT SCHEDULE			
Phase (Task)	Start	Finish	% Complete
Lancaster Dr. Design PH I & PH II	April 28, 2023	December 31, 2023	45%
Lancaster Dr. PH I Construction	April 2024	April 2025	0%
Lancaster Dr. PH II Construction	July 2025	July 2026	0%
Hunton Street Design	January 2024	October 2024	0%
Hunton Street Construction	July 2025	45174	0%

PROJECT BUDGET		PROJECT FUNDING SOURCE	
Design	\$ 348,242.00	Debt	\$ -
Construction	\$ 2,522,403.00	W&S Fund	\$ 2,870,645.00

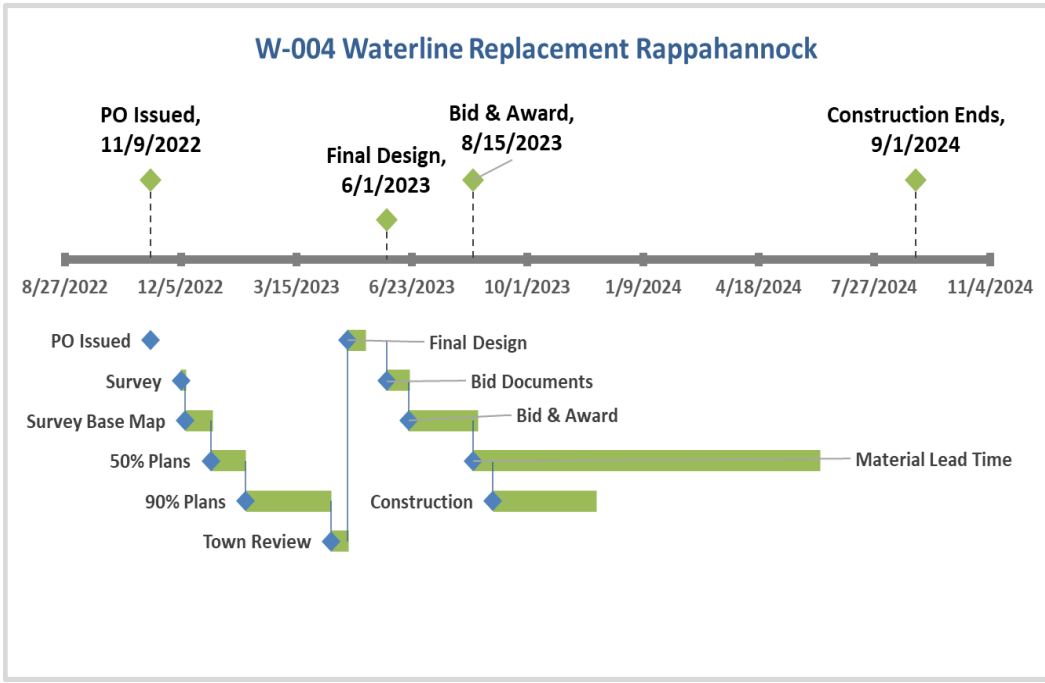


Project Name: W-004 Waterline Replacement Rappahannock

Project Objective: Replace the existing cast iron waterline with ductile iron, which will improve fire flows and reduce pipe breaks.

Project Status Update: Project has been awarded and construction expected to start in December 2023

PROJECT SCHEDULE			
Phase (Task)	Start	Finish	% Complete
Design	December 5, 2022	June 1, 2023	100%
Project Bid	June 15, 2023	August 1, 2023	100%
Construction	September 1, 2023	September 2024	0%
PROJECT BUDGET		PROJECT FUNDING SOURCE	
Design	\$ 40,000.00	Debt	\$ -
Construction	\$ 560,000.00	W&S Fund	\$ 600,000.00



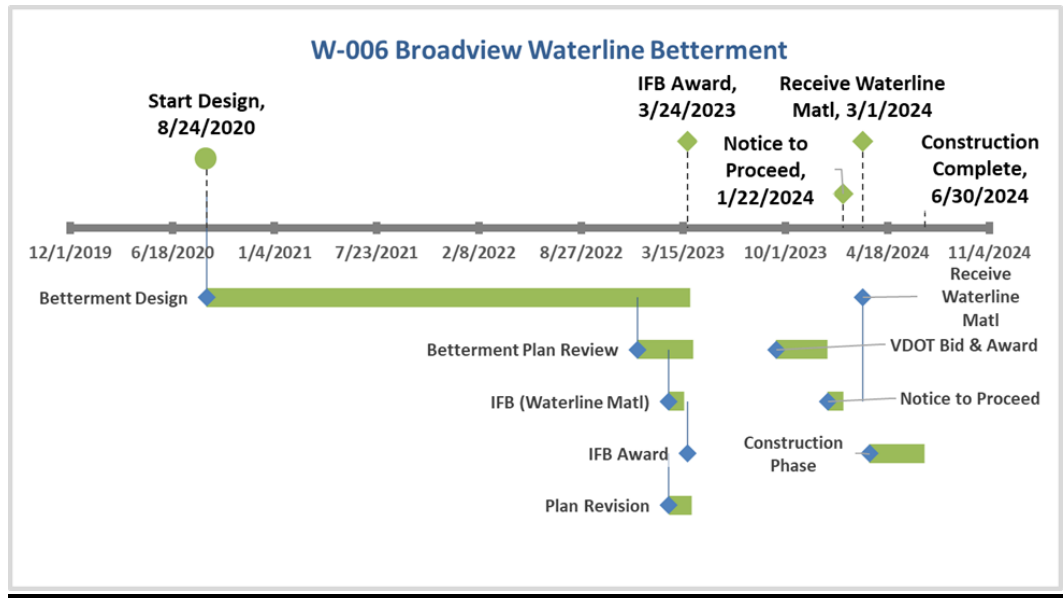
Project Name: W-006 Broadview Waterline Betterment

Project Objective: Improve the Water Distribution System for improved service to businesses and better fire protection.

Project Status Update: Project is in the bid process and let date is October 25, 2023. Contract awarded in January 2024 and construction expected to start by March 2024

PROJECT SCHEDULE			
Phase (Task)	Start	Finish	% Complete
Design	August 24, 2020	April 3, 2023	100%
Project Bid	July 3, 2023	October 25, 2023	50%
Construction	January 2024	June 30, 2024	0%

PROJECT BUDGET		PROJECT FUNDING SOURCE	
Design	\$ -	Debt	\$ -
Construction	\$ 872,812.00	W&S Fund	\$ 872,812.00



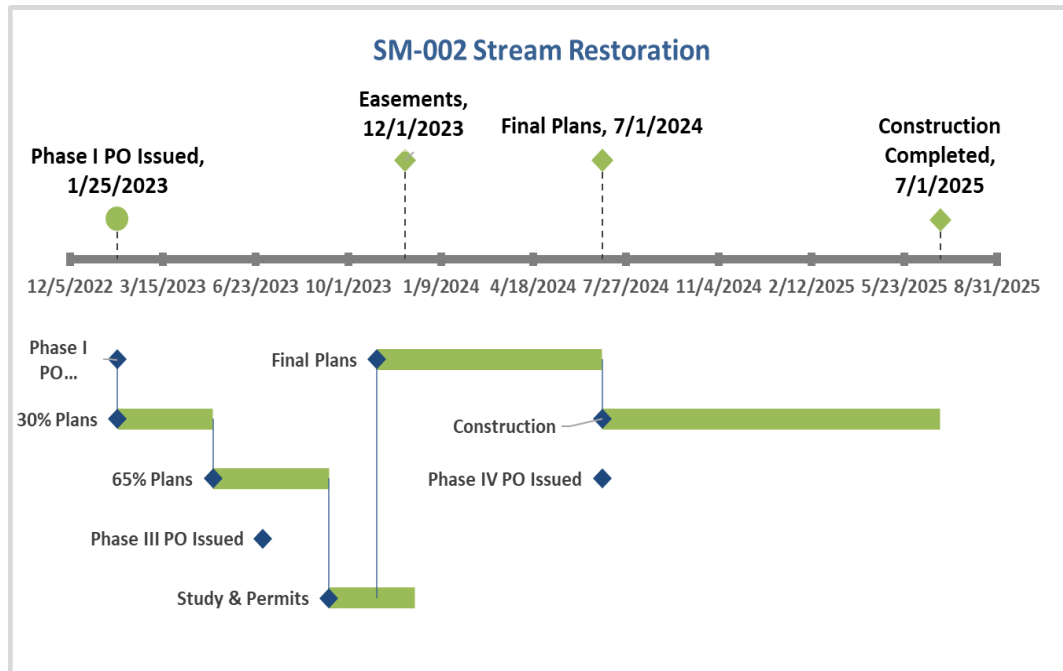
Project Name: SM-002 Stream Restoration (Hampton Inn)

Project Objective: Develop credits for stream bed improvements and credits for nutrient reductions.

Project Status Update: Town staff met with designer to develop timeframes and discuss progress in obtaining easements.

PROJECT SCHEDULE			
Phase (Task)	Start	Finish	% Complete
Easements	January 25, 2023	December 1, 2023	40%
Design	January 25, 2023	July 2024	30%
Construction	July 2024	July 2025	0%
Monitoring	July 2025	July 2029	0%

PROJECT BUDGET		PROJECT FUNDING SOURCE	
Design	\$ 424,684.00	Federal	\$ 991,094.00
Construction	\$ 1,421,684.00	SW Fund	\$ 991,094.00

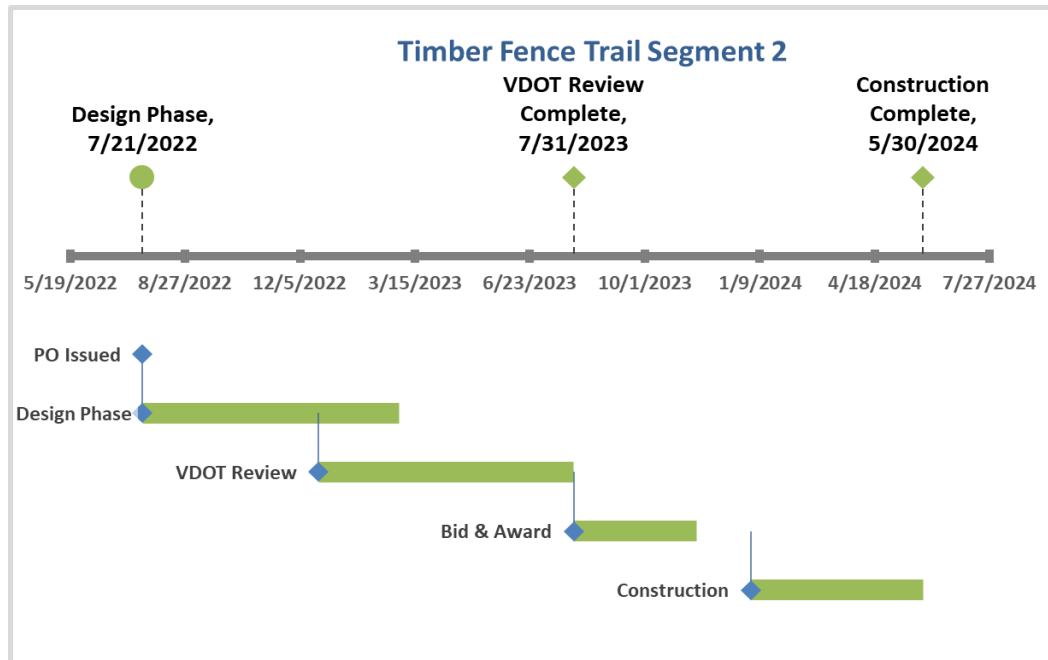


Project Name: Timber Fence Trail Segment 2

Project Objective: The Town will construct an asphalt trail to connect the Northwestern community to Fauquier High School and WARF.

Project Status Update: Waiting for VDOT to close scoping. CEI contract was awarded in September 2023

PROJECT SCHEDULE			
Phase (Task)	Start	Finish	% Complete
Design		July 31, 2023	100%
Project Bid	July 31, 2023	November 15, 2023	70%
Construction	January 2024	May 2024	0%
PROJECT BUDGET		PROJECT FUNDING SOURCE	
Design	\$ 65,000.00	General Fund	\$ 50,889.00
Construction	\$ 443,390.00	VDOT	\$ 407,112.00
		Other	\$ 50,889.00

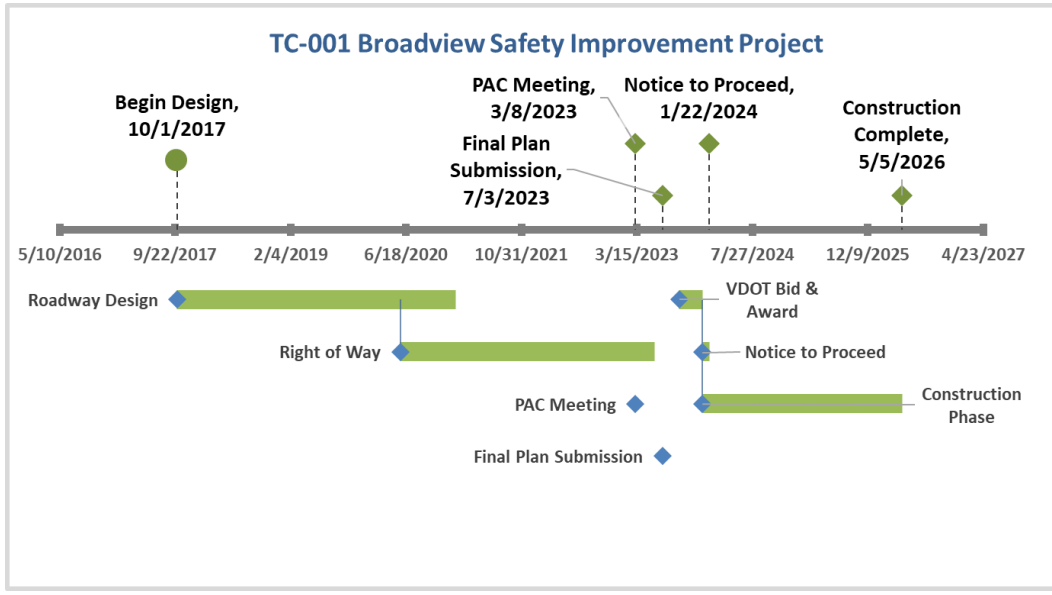


Project Name: TC-001 Broadview Safety Improvement

Project Objective: To improve safety and access management to businesses.

Project Status Update: Project is in the bid process and let date is October 25, 2023. Contract awarded in January 2024 and construction expected to start by March 2024

PROJECT SCHEDULE			
Phase (Task)	Start	Finish	% Complete
Design	October 1, 2017	July 3, 2023	100%
Project Bid	July 3, 2023	October 25, 2023	50%
Construction	January 2024	May 2026	0%
PROJECT BUDGET		PROJECT FUNDING SOURCE	
R/W	\$ 2,032,481.00	General Fund	\$ 1,488,000.00
Design	\$ -	VDOT	\$ 6,363,893.00
Construction	\$ 5,819,412.00		





Office of the Town Manager

Christopher E. Martino

STAFF REPORT

Warrenton Town Council

Carter Nevill, Mayor
Heather Sutphin, Ward 1
William Semple, Ward 2
Brett Hamby, Ward 3
James Hartman, Ward 4 Vice Mayor
Jay Heroux, Ward 5
Sean Polster, At Large
Renard Carlos, At Large

Item a.

Council Meeting Date:	December 13, 2022
Agenda Title:	Water and Sewer System Growth and Capacity Evaluation
Requested Action:	No action necessary- this is informational
Department / Agency Lead:	Public Works and Utilities
Staff Lead:	Frank Cassidy

EXECUTIVE SUMMARY

The Town operates a water plant (WTP) and wastewater treatment plant (WWTP) delivering water and processing wastewater. These plants serve an essential service to all who live, visit, and enjoy the Town. Without a well operating water and wastewater system, the Town would not be thriving.

As the Town grows and explores additional options for growth and development, it is essential both these plants operate at levels both mandated by regulations and laws, as well as the expectations of customers. As these plants age and additional demands are expected from them, we need to encourage a healthy discussion on their capacities while acknowledging their limitations.

The purpose of this presentation is to provide a holistic overview of status for better planning, outline challenges moving forward, and provide an outline of projects as we move forward. Discussion will include review of the 2015 Capacity Study and the current Capacity Study completed in November 2022.

BACKGROUND

The Town's Public Utilities Department owns and operates an advanced wastewater treatment plant, 8 wastewater pump stations, almost 68 miles of sanitary sewer mains, a freshwater reservoir, 3 active wells, a water treatment and filtration plant and 88 miles of water distribution system including 743 fire hydrants.

Utilities also provides oversight and control of the Town's water and wastewater treatment facilities; delivery systems; maintenance of the systems; and billing. A high-level breakdown of services is included later in this document.

WATER PLANT OPERATIONS:

The Source of Supply Division is responsible for the safe and efficient operation of the Town's municipal water supply assets, which consist of the water treatment plant, three remote wells, two surface water reservoirs, booster station, re-chlorination station, two water storage tanks and the collection of all state and federally regulated water samples. The operation strives to provide safe, aesthetically pleasing, and pleasant tasting water to meet the demands of the Town's over 4,944 residential and commercial customers.

The treatment plant on Blackwell Road is permitted to treat 3.2 million gallons per day but is restricted by the safe yield of the reservoirs, which is 2.27 million gallons per day. Currently the plant produces an average of 1.2 million gallons of water a day.

TRANSMISSION & DISTRIBUTION:

The T&D Division is responsible for the overall maintenance, repair, and servicing of over 87 miles of water line and 69 miles of sewer. Activities include repairing main breaks, replacing old and deteriorated water/sewer lines, maintaining water and sewer line rights of way, unstopping clogged sewage lines, collecting data with flow meters to identify high areas of infiltration/inflow in the gravity sewage system, maintenance of over 734 fire hydrants and responding to over 2,527 calls annually for Miss Utility field locations of water and sewage lines as mandated by law.

The Meter Section works under T&D and is responsible for the reading of 4,944 water meters and providing the data to the Finance Department for billing and revenue collection. In addition, the section provides routine maintenance to all customer meters, to include the thawing of frozen meters due to extreme cold weather, the inspections required under the State's cross connection and backflow prevention programs, periodic calibration, and replacement of unserviceable meters. The meter calibration testing frequency depends upon their annual usage, wear and tear and potential for revenue loss or generation. Staff also responds to customer concerns relative to unusually high or low water bills and often assists customers in identifying leaks in their service lines or homes and businesses. Unaccounted water loss has averaged less than 10% for the past several years, which is below the American Waterworks Standard of 13%.

WASTEWATER PLANT OPERATIONS:

Operation and maintenance of the Town's 2.5 million gallons per day (mgd) sewage treatment plant and the 8 sewage pump stations. The plant currently treats on average 1.8-2.0 mgd. With the operation responsible for the protection of downstream waters by plant operations and monitoring for compliance with state and federal regulations.

Treatment begins at the head works with screening and grit removal, followed by primary sedimentation. The second process involves biological treatment with the newly constructed Moving Bed Biofilm Reactor (MBBR). The third phase employs chemical coagulation and flocculation followed by secondary sedimentation. The final stage of treatment includes nutrient removal via deep bed filtration, disinfection with ultraviolet lamps, and post-aeration before discharge into the unnamed tributary to Great Run. Sludge that is generated by the treatment process is anaerobically digested, dewatered by a 2-meter belt press, hauled away by an outside contractor and land applied. Annual nutrient limits for nitrogen and phosphorus are in effect to comply with actions to clean up the Chesapeake Bay.

Both plants are currently going through upgrades and maintenance operations to ensure the consistent and proper operational aspects required by regulations and laws as well as ensuring the quality of water resources. The WWTP is manifesting the age of equipment and is continually needing creative ways to repair, work around, or manufacture systems as the equipment is aging and outdated. Plans for upgrades

and replacement have been presented in the past and have been part of operational planning for a few years now. Given the recent need to offset budget costs by pushing out CIP expenditures, these repairs and upgrades are becoming failure points.

STAFF RECOMMENDATION

WRA completed a Capacity Study in November of 2022. This study provided an overall assessment of water and wastewater operations moving forward considering all potential future developments within Town and incorporated with discussion on BLA, Tri-Party Agreements, and other requests for the Town to provide utility services. Based on this study, we are looking at the Water and Wastewater Plant reaching their maximum capacities in the year 2040. The Wastewater Plant will reach the 2.5 MGD limit by the year 2030.

Given the results of the study, staff recommends moving forward with the outlined projects for maintenance and upgrades as discussed and identified in the CIP. We want to make Council aware the order of the projects may change as we continue to move forward because of unexpected maintenance issues or other challenges. We highly encourage Council to stay the course with the future improvements and maintenance of both these plants to ensure proper functioning while keeping in mind the challenges of adding more accounts to these systems.

Will require a resolution to clarify funding sources.

Service Level / Policy Impact

These projects are in line with the Plan Warrenton 2040, Goals as follows:

- **CF-4: Ensure healthy, safe, adequate water and wastewater services.**
 - **CF-4.1:** Maintain a reliable and sufficient quantity of wastewater treatment capacity and a sufficient quantity and quality of public water supply to meet the needs of expected long term residential and commercial growth.
 - **CF-4.2:** Meet the future infrastructure needs through careful planning and acquisition of required permits.
 - **CF-4.3:** Reduce Infiltration and Inflow (I&I) and promote sustainability within the wastewater infrastructure system.
 - **CF-4.5:** Evaluate and update the Town of Warrenton – Fauquier County Master Water and Sewer Plan’s Tri-Party Agreement as needed, creating a regional strategy for future needs, and reevaluating the Town boundaries in relationship to its service areas.
 - **CF-4.8:** Explore resources to help property owners and promote connection to public
- **CF-5: To provide a fiscally responsible infrastructure that maintains a high quality of life for residents, supports current businesses, and attracts new employers with a stable tax structure.**

- **CF-5.1:** Implement robust maintenance schedules on community facilities to extend the life of investments.
- **CF-5.2:** Support the Town’s current and future population through the provision of timely and comprehensive community facilities.

Fiscal Impact

At the September 13, 2022, Council meeting, the Town Council passed a resolution to appropriate \$4,500,000 for Water and Sewer projects. The Town Council also authorized the issuance of \$5,000,000 in bonds to finance Water and Sewer projects. The \$5,000,000 was not appropriated at that time. Now that the projects have been prioritized and reviewed with Council, staff will advertise a public hearing for the January 13, 2023, Council meeting to appropriate the bond funding for use on these projects.

As the funding has already been identified and the bonds issued, there is no financial impact. Only the advertising of the public hearing to appropriate the funding is required.

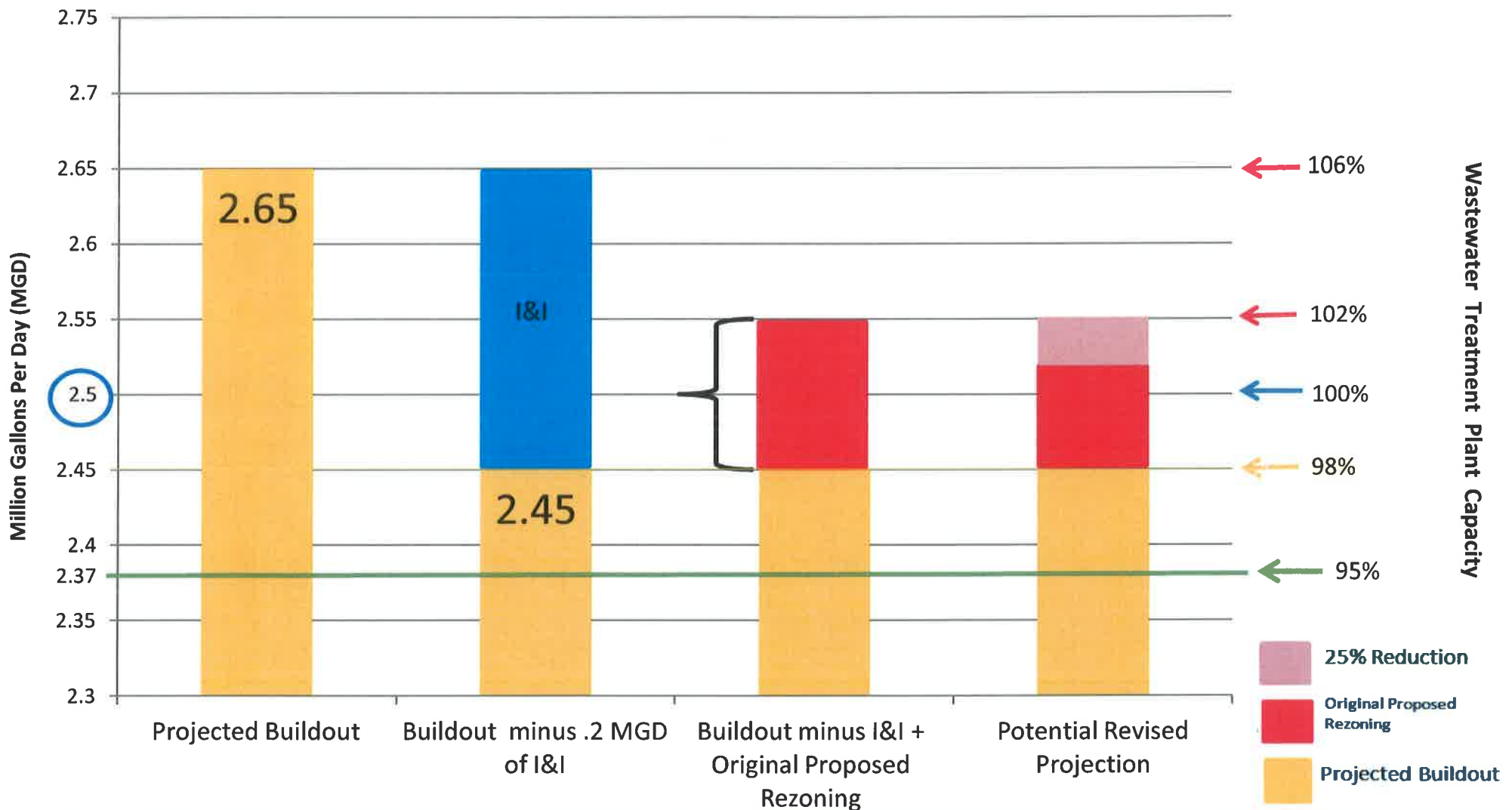
Legal Impact

Town Attorneys are working with staff.

ATTACHMENTS

- 2022 Capacity Study report from WRA
- CIP and CARP Items for Outlined Projects
- 2015 WRA 2015 Report and Power Point presentation to Council
- I&I memo and documents, March 2022

Projected Sewer Buildout





TOWN OF WARRENTON

Department of Public Works & Utilities

PO BOX 341
WARRENTON, VIRGINIA 20188
<http://www.warrentonva.gov>
TELEPHONE (540) 347-1101
FAX (540) 349-2414

MEMORANDUM

TO: Brandie Schaeffer, Town Manager

FROM: Frank Cassidy, Director Public Works and Utilities

DATE: March 9, 2022

SUBJECT: I&I Information

Please accept this as information regarding I&I:

Council member Sean Polster requested information on our system and the effects of I&I (Infiltration and Inflow). Infiltration and Inflow is clean storm and/or groundwater that enters the sanitary sewer system through holes, breaks, joint failures, connection failures, illegal connections (sump pumps, down spouts/gutters, and footing drains), and from cross-connections with storm sewers. Most inflow comes from stormwater and most infiltration comes from groundwater. High groundwater levels and storm events can contribute to excessive sewer flows.

Over the past several years, we have been taking measures to reduce the I&I in our system. We have been working with contractors and assessing fluctuations in our WWTP. These efforts are showing signs of progress.

In short, the areas we have completed rehab work to our system are showing signs of reduced I&I. for example, the area around Rady Park is completed. During heavy rains, the pump station remains consistent. On the other hand, during the same rain event, the pump station at Cedar Run will show a large increase in volume. This area is our next target area for rehab.

As an overall effect, the WWTP does have an increase of processing during large rain events. Our monthly averages of MGD's remain consistent and in the range of 1.7 to 2.0; however, when we break this down to daily and examine the periods of heavy rainfall, we see a direct correlation with rising flow rates and the amount of rain.

In conclusion, it is obvious our efforts to reduce I&I through our rehab program is working and we have work still to do. I have included the progress report submitted by our Engineer Paul Bernard as well as a recent daily tracking report to provide additional details.

Please let me know if you require additional information.

Attachment: Memo and supporting documents on the status of our rehab program
Composite Flow Chart and spread sheet for MGD and rain amounts

Additional Water Demand Based on Projected Development

Land Use Type	IN-TOWN								OUT OF TOWN				TOTAL (gal/day)		
	Approved Projects within Town Limits	Partially Approved/In Process Projects within Town Limits	Vacant Parcels within Town Limits	Lee Highway	Old Town	Frost/Broadview	East Shirley	Entitled Single Family Homes	Arrington Option C	Laurel Ridge Community College	Water only Customers	Sewer only Customers			
Residential	Single-Family (units)	57,000	10,800	99,300	-	61,800	70,500	35,100	15,000	94,200	-	24,900	6,600	443,700	
	Multi-Family (units)	-	-	-	-	-	36,000	-	-	-	-	-	-	36,000	
	Apartment (units)	-	-	-	400,800	25,200	-	-	-	-	-	-	-	426,000	
	Townhouse (units)	-	-	10,200	32,400	2,100	-	25,200	-	18,900	-	-	-	88,800	
	Senior Home (units)	-	-	-	-	-	6,000	-	-	-	-	-	-	6,000	
	Hotel (rooms)	-	-	-	11,500	11,500	11,500	-	-	1,500	-	-	-	36,000	
Commercial	General (SF)	-	2,510	12,032	19,600	2,000	4,000	-	-	-	-	-	-	40,142	
	Entertainment (SF)	-	-	-	20,000	29,000	-	-	-	-	-	-	-	49,000	
	Academic (SF)	-	-	-	63,800	-	-	-	-	-	-	-	-	63,800	
	Office/Employment (SF)	-	-	-	11,600	-	-	-	-	-	-	0	-	11,600	
	Medical Offices (SF)	-	-	-	-	-	14,500	-	-	-	-	-	0	14,500	
Industrial	General (sq ft)	-	-	15,190	-	-	-	-	-	-	-	-	-	15,190	
Community College	Students (units)	-	-	-	-	-	-	-	-	52,110	-	-	-	52,110	
	Sub-Total Water (MGD)	0.06	0.01	0.14	0.56	0.13	0.14	0.06	0.02	0.11	0.05	0.02	0.01	1.31	Average Water Demand (MGD)
	Sub-Total Wastewater (MGD)	0.05	0.01	0.12	0.50	0.12	0.13	0.05	0.01	0.10	0.05	0.02	0.01	1.18	WRA Calculated Wastewater Demand (MGD)

Total Water and Wastewater Demand Including Projected and Existing

Existing 2021 + New Project Water Demand (MGD)	1.11	1.17	1.18	1.32	1.88	2.01	2.15	2.21	2.23	2.34	2.39	2.42	2.42	2.42	Totalized Projected Water Demand (MGD)
Existing 2021 + New Project Wastewater Demand (MGD)	1.72	1.77	1.78	1.91	2.41	2.53	2.66	2.71	2.72	2.83	2.87	2.90	2.90	2.90	Totalized Projected Wastewater Demand (MGD)



Function and Capacity of WTP and WWTP

Town Council Work Session
December 13, 2022

Function of WTP and WWTP

*Plan Warrenton 2040-
Community Facilities
Goals: CF4 and CF5*

- Plan Warrenton 2040 adopted by Council
- Community Facilities Goals
- CF-4: Ensure healthy, safe adequate water and wastewater services
- CF-5: To provide fiscally responsible infrastructure that maintains a high quality of life for residents, supports current businesses, and attracts new employers with a stable tax structure

Function of WTP and WWTP

*Plan Warrenton 2040-
Community Facilities
Goals: CF-4 and CF-5*

CF-4: Ensure healthy, safe, adequate water and wastewater services.

- **CF-4.1:** Maintain a reliable and sufficient quantity of wastewater treatment capacity and a sufficient quantity and quality of public water supply to meet the needs of expected long term residential and commercial growth.
- **CF-4.2:** Meet the future infrastructure needs through careful planning and acquisition of required permits.
- **CF-4.3:** Reduce Infiltration and Inflow (I&I) and promote sustainability within the wastewater infrastructure system.
- **CF-4.5:** Evaluate and update the Town of Warrenton – Fauquier County Master Water and Sewer Plan’s Tri-Party Agreement as needed, creating a regional strategy for future needs, and reevaluating the Town boundaries in relationship to its service areas.
- **CF-4.8:** Explore resources to help property owners and promote connection to public water and sewer within the Town boundaries.

Function of WTP and WWTP

*Plan Warrenton 2040-
Community Facilities
Goals: CF-4 and CF-5*

CF-5: To provide a fiscally responsible infrastructure that maintains a high quality of life for residents, supports current businesses, and attracts new employers with a stable tax structure.

- **CF-5.1:** Implement robust maintenance schedules on community facilities to extend the life of investments.
- **CF-5.2:** Support the Town's current and future population through the provision of timely and comprehensive community facilities.

Objective

- Provide an overview to operations at both the Water and Wastewater Treatment Plant
- Provide a holistic overview of current status for better planning
- Outline Challenges moving forward
- Provide an overview as we move forward

Background

- Growth and Capacity studies completed in 2002, 2006, and 2009 with WRA.
- Capacity study in 2014 reports and presentation was provided to Town Council in 2015 identifying several areas of concern
- Town staff has been working with WRA and contractors to move the plan forward
- Budget concerns and restraints have deferred some projects and timelines
- Staff review of 2015 study led to current study: 2022, Completed

2015 Report Highlights from 2015 Presentation to Council

Item a.

- Water:
 - Buildout between 2028 and 2033
 - At buildout 92% safe yield
- Sewer:
 - Buildout 2029
 - WWTP capacity (95%) in 2022-2024

Actions Taken from 2015 Report

- Engaged in I&I efforts
- Developed a plan of plant improvements with consultants
- Used the developed plan to define CIP and CARP to move forward
- MBBR completed
- Chemical building completed
- Presented plan for current budget
- Working with Community Development to address future growth needs

2015 Report Review– 2022

- Projections were very accurate
- Did not take into consideration current condition of plant equipment
- Based on study review, we are approaching projected capacity levels causing concern
- Updated Capacity Study completed in November 2022

2022 Capacity Report

- Current Study Considered all Future Expansions
- Reviewed current capacities with improvements since 2015 report
- Provided chart analysis based on potential future expansions to include BLA adjustments

2022 Capacity Report

- Projected Build Out in 2040
- WTP 2.42 MGD reached with Build Out
- WWTP 2.92 MGD reached with Build Out
- WWTP 2.5 MGD reached by 2030
- Updated Capacity Study reenforces staying on track with Improvements moving through the next 5-8 years

Current Capacity

- WTP- at 40% of Capacity
- WWTP- at 70% Capacity

Current Operations- Water Plant



Current Operations- Water Plant

- **Hydraulic Flow (Denoted by Blue on the Map)**
- **Solids & Wastewater Flow (Denoted by Green on the Map)**
- #1 Intake Structure:
- #2 Raw Water Pump Station:
- #3 Chemical Building:
- #4 Flocculation Basins:
- #5 Sedimentation Basins:
- #6 Filter Gallery:
- #7 Clearwell:
- The Distribution System has two Storage Tanks. The “Mountain Tank”, a 1.5-million-gallon ground storage tank located on Bear Wallow drive and the “City Tank”, a 500-thousand-gallon elevated storage tank located on fourth street.

Current Operations- Water Plant

- **Solids and Wastewater**
- #1 (Green) Waste Tanks
- #1 (Blue & Black) Backwash Tank

Current Operations- Water Plant

- **Questions?**

Completed Projects- Water Plant

➤ Chemical Building

- Auto flow based chemical injection : Streamlines and more accurate dosing of all treatment chemicals.
- Brought SCADA online- Allows operators automated control of systems
- Phased out outdated and broken equipment

Upcoming Projects- Water Plant

- Clear Well- with High Service Pump Station
- Filter Control Valves
- Remote Automated Filling Station
- Aeration of reservoir
- Dam

Next Steps- Water Plant

- Implement the CIP, CARP and outlined ARPA projects to upgrade both plants
- Work with DCR as required post Dam permit review and report
- Explore funding options for future dam costs
- Ensure Plan Warrenton 2040 Goals are met

Next Steps- Water Plant

Filter Control Valves (CARP, formally U-26-007)

- Preliminary feasibility and engineering October 1, 2022
- Final Design Completed July 2023
- Out for Bid: Aug 2023
- Bid deadline and review: October 2023
- Project begins: November 2023
- End Date: May 2024

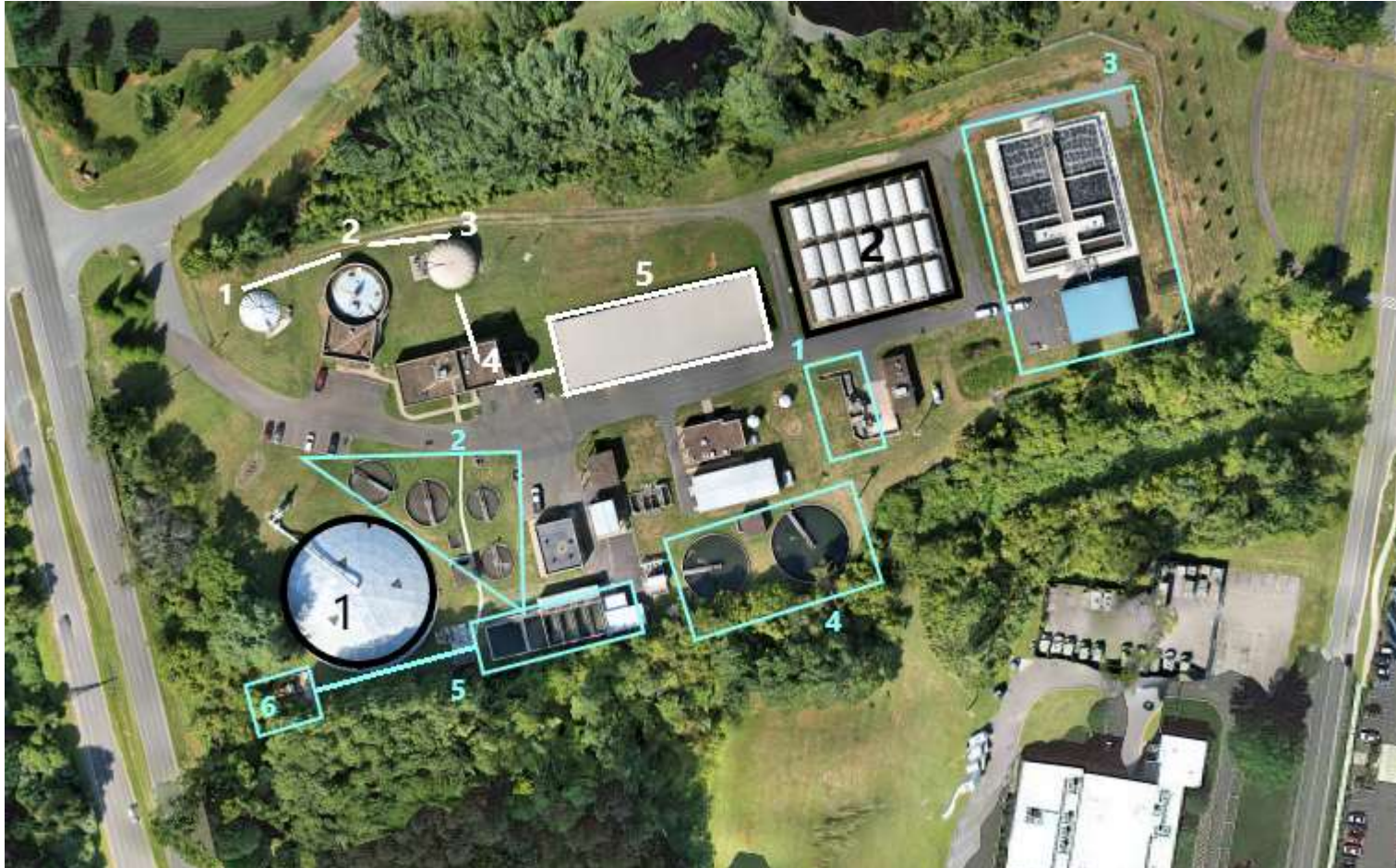


Questions

➤ Questions?

Current Operations- Waste Water Treatment Plant

Item a.



Current Operations- Waste Water Treatment Plant

Item a.

- WWTP equipment is aging- despite the plan for upgrades and replacement staff must work around unplanned maintenance issues and failures
- Cost of required upgrades and replacements is high which has resulted in several “push backs” of timelines

Current Operations- Waste Water Treatment Plant

Item a.

- **Hydraulic Flow, denoted by Blue on the map**
- **Solids Flow, denoted by White on the map**

Current Operations- Waste Water Treatment Plant

Item a.

- **Hydraulic:**

- #1 Headworks
- #2 Primary Clarifiers
- #3 Moving Bed Biofilm Reactor (MBBR)
- #4 Secondary Clarifies
- #5: Denitrification Filters
- #6: Effluent Flume

Current Operations- Waste Water Treatment Plant

Item a.

- **Solids:**
- #1 Gravity Sludge Thickener (GST)
- #2 Primary Digester
- #3 Secondary Digester:
- #4 Dewatering:
- #5 Drying Beds

Current Operations- Waste Water Treatment Plant

Item a.

- **Note:** The numbers 1 and 2 denoted in Black on the map are process components that have been taken out of service when they were replaced by the MBBR system.
- #1 Tricking Filter: This is now being utilized as a surge control tank in the event of high flow events. Usually caused by heavy rain events.
- #2 Rotating Biological Contactors (RBC's): These units currently serve no additional role, and they will be removed to make room for future plant expansion and upgrades mainly where the new Secondary Clarifiers will be placed.

Current Operations- Waste Water Treatment Plant

Item a.

- **Questions?**

Completed Projects-Waste Water Treatment Plant

Item a.

- MBBR- Moving Bed Biofilm Reactor
 - Removes Ammonia
 - Controls dissolved Oxygen
 - Helps with organic treatment

- UV Disinfection System

- Corrective fixes and upgrades on pumps, mixers, and motors

Next Steps- Waste Water Treatment Plant

Item a.

- Implement the CIP, CARP and outlined ARPA projects to upgrade both plants
- Work with DEQ over the next five years (permit cycle) to upgrade permit to 3.0 MGD
- Ensure Plan Warrenton 2040 Goals are met

Current Projects-Waste Water Treatment Plant

Item a.

- Headworks- Grit Collector
- Primary Clarifier
- Secondary Clarifier
- Denitrification Blower
- GST
- Primary Digester
- Mixing and Heating System
- Belt Press- Dewatering

Next Steps- Waste Water Treatment Plant

Item a.

1. Primary Clarifier (WS-014, formally U-28-003) combined with Primary Sludge Pump (CARP, formally U-24-004)

Preliminary Engineering estimates started October 11, 2022

- a. Review of estimates and proposals November 1, 2022
- b. Align proposals, begin design phase- Dec 15, 2022
- c. Jan 15, 2023, design phase completed, review of proposals
- d. June 1, 2023, final design phase begins
- e. Sept 15, 2023, Final design phase completed, review for construction
- f. IFB for construction posted Sept 1, 2023
- g. Award construction Nov 1, 2023
- h. Final construction Nov 2024

Next Steps- Waste Water Treatment Plant

Item a.

2. Secondary Clarifier (WS-015, formally U-28-004)- Preliminary Upgrade to Carry until Complete replacement in 2026

Start: July 2022, mechanical failure

a.Repairs to begin: November 2022

b.Complete: December 2022

c.Reevaluation and next steps to begin Post Primary Clarifier completion

Next Steps- Waste Water Treatment Plant

Item a.

3. Headworks Building (WS-019, Formally U-28-008)

- Channel Gates

a. Quotes Deadline: November 1, 2022

b. Awarded: December 2022

c. Work started: February 1, 2023, (16-week fabrication timeframe)

d. Work complete: March 1, 2023

- Grit Collector

a. Quotes Deadline: November 1, 2022

b. Awarded: November 15, 2022

c. Work started: December 1, 2023, pending material availability

d. Worked completed: April 1, 2023



Next Steps- Waste Water Treatment Plant

Item a.

4. Sludge Dewatering (WS-017, formally U-28-006)

- a. Start: October 1, 2022
- b. Repairs begin: October 15, 2022
- c. Work completed: December 20, 2022, pending material availability

Next Steps- Waste Water Treatment Plant

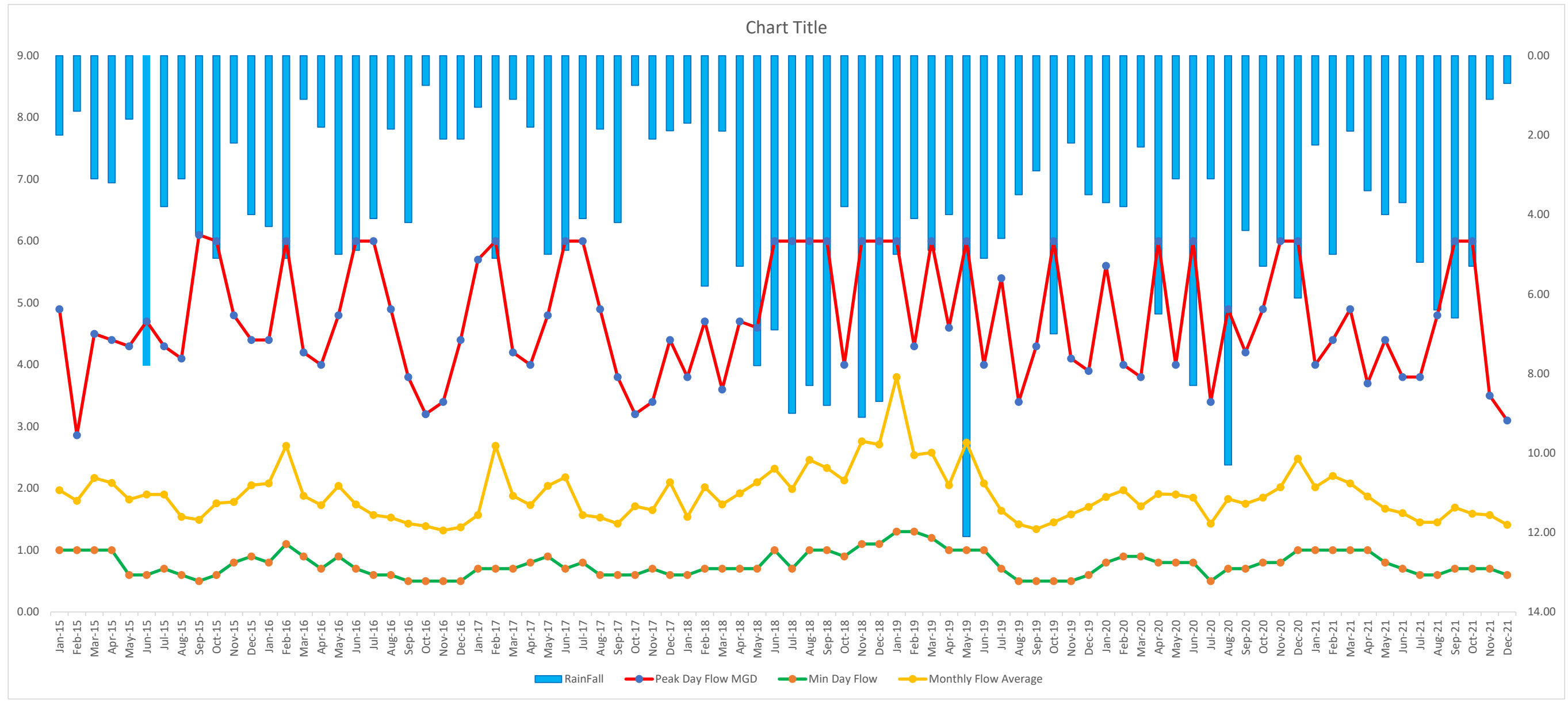
Item a.

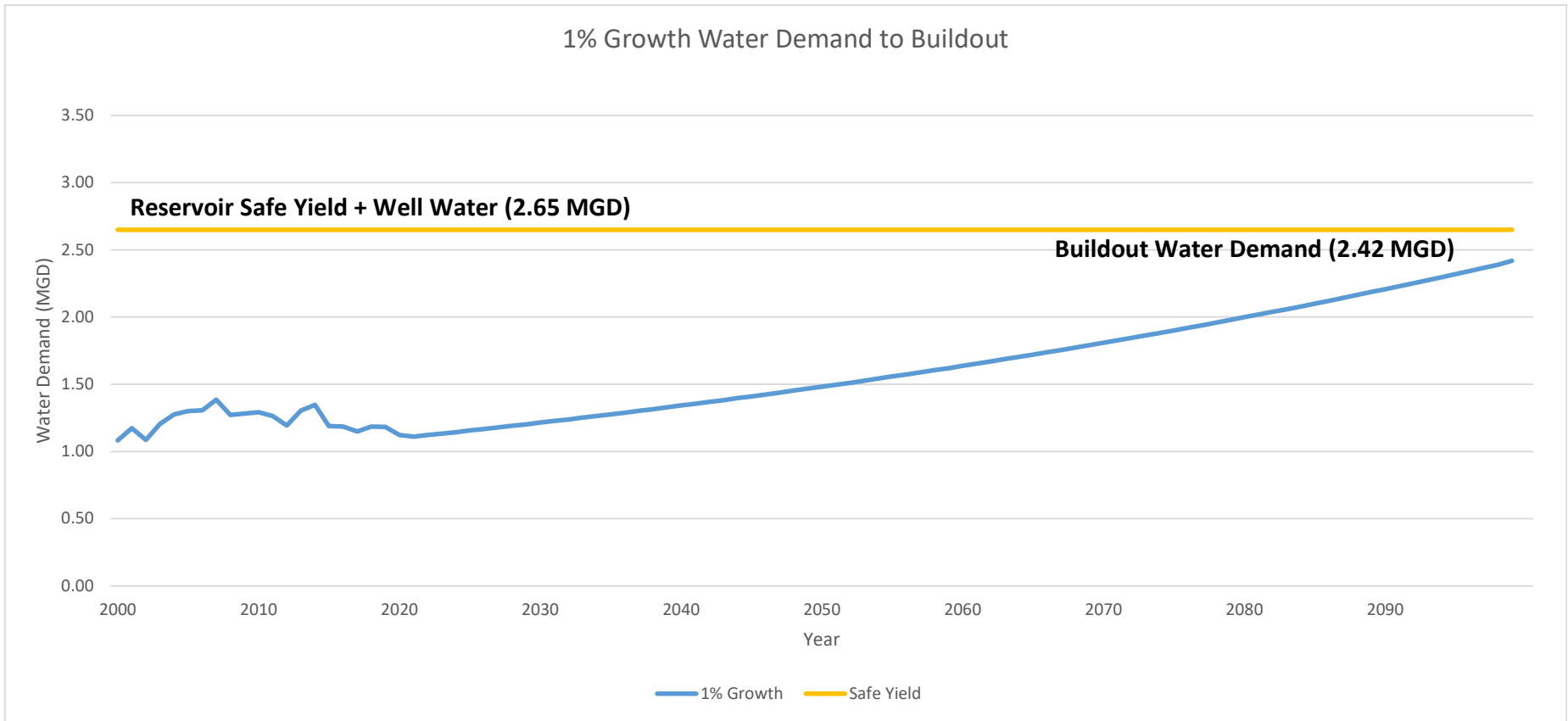
5. GST Upgrades (CARP, formally U-23-018)
 - a. Nov 9- Bids close
 - b. Awarded Dec 2022
 - c. Construction begins: Jan 2023, pending material availability
 - d. Completed: September 2023, pending material availability

Questions

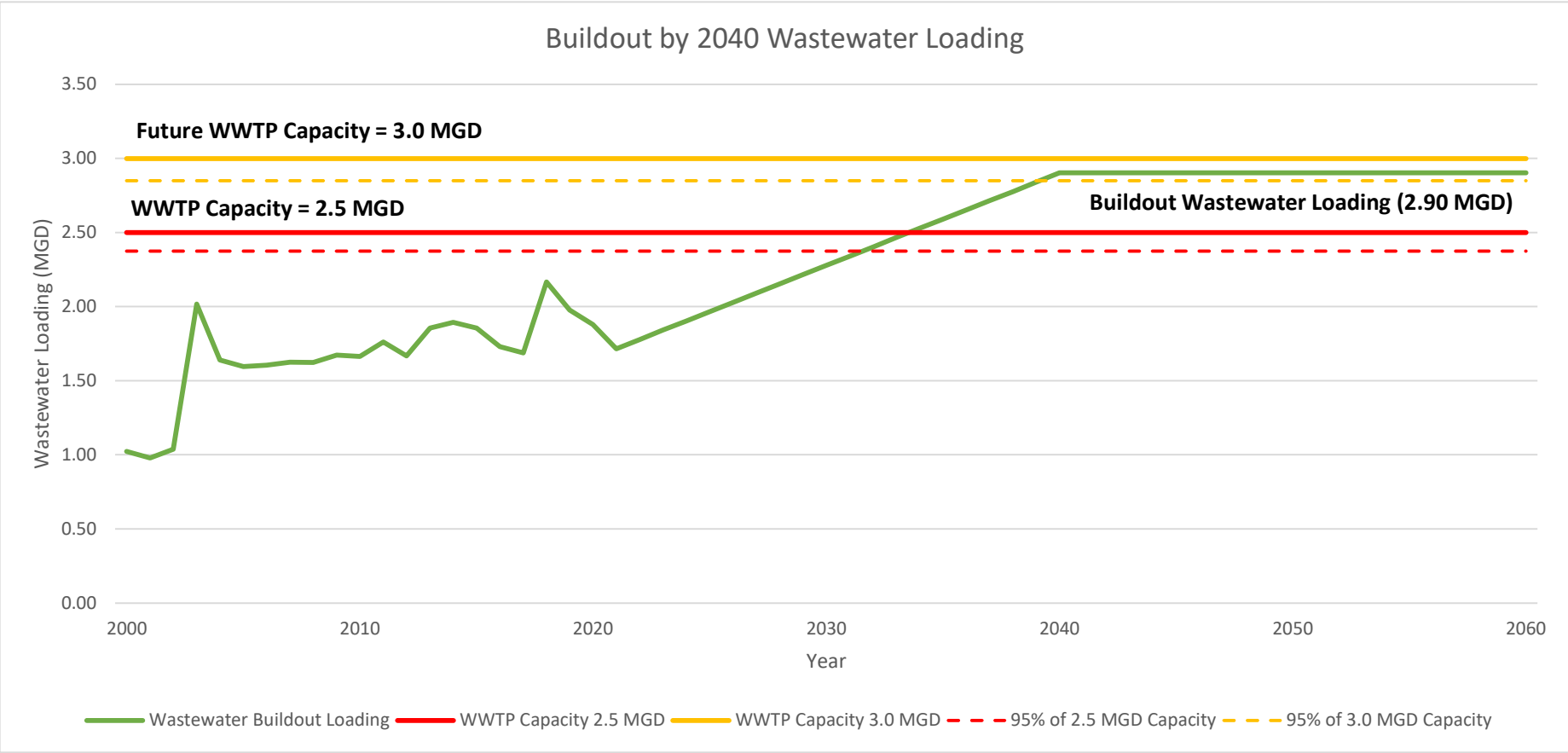
➤ Questions?

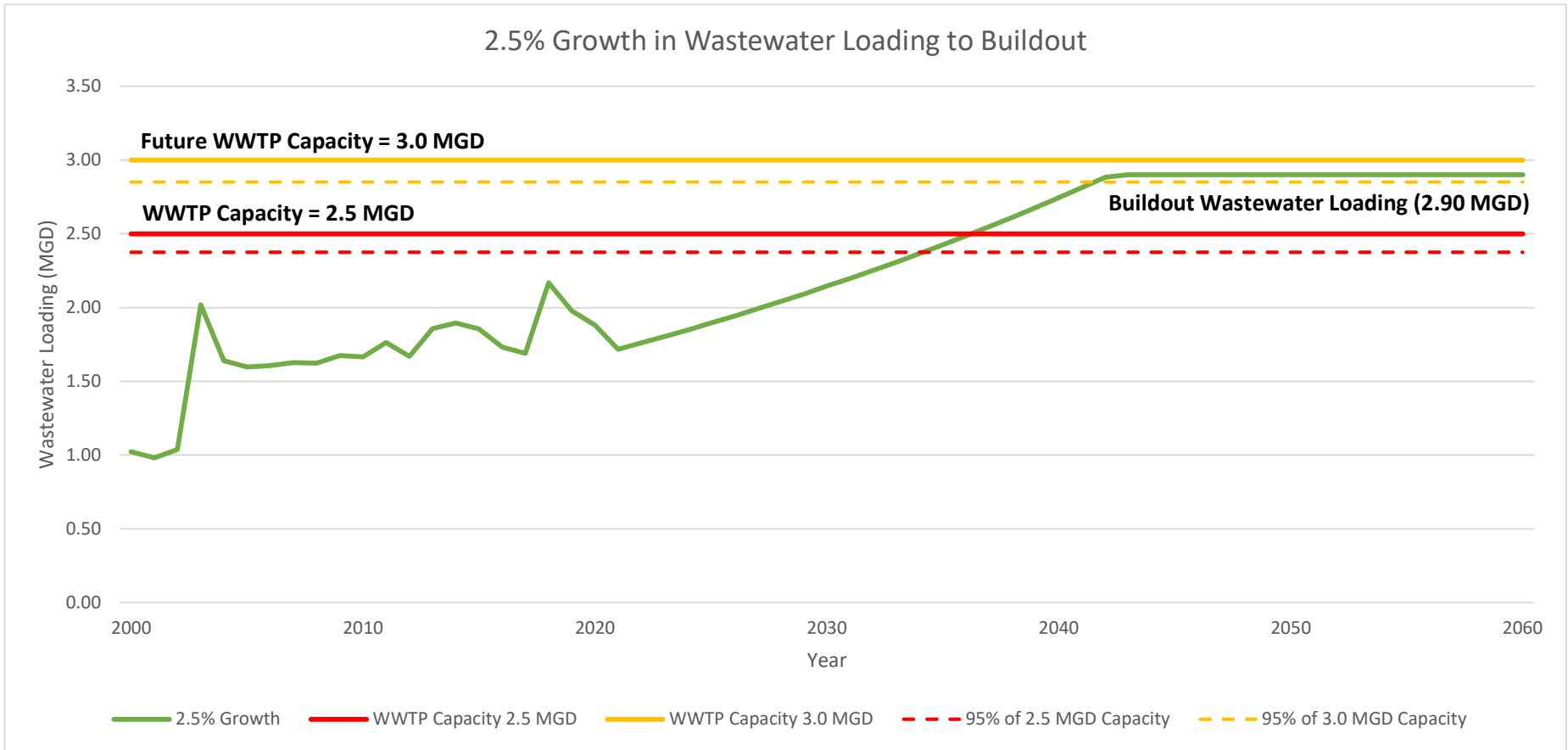
Monthly	Peak Day Flow MGD	Min Day Flow	RainFall	Annual Rain (in)	Monthly Flow Average	Annual Ave. (MGD)
Jan-15	4.90	1.00		2.00		1.97
Feb-15	2.86	1.00		1.40		1.80
Mar-15	4.50	1.00		3.10		2.17
Apr-15	4.40	1.00		3.20		2.09
May-15	4.30	0.60		1.60		1.82
Jun-15	4.70	0.60		7.80		1.90
Jul-15	4.30	0.70		3.80		1.90
Aug-15	4.10	0.60		3.10		1.54
Sep-15	6.10	0.50		4.50		1.49
Oct-15	6.00	0.60		5.10		1.76
Nov-15	4.80	0.80		2.20		1.78
Dec-15	4.40	0.90		4.00	41.80	2.05
Jan-16	4.40	0.80		4.30		2.08
Feb-16	6.00	1.10		5.10		2.69
Mar-16	4.20	0.90		1.10		1.88
Apr-16	4.00	0.70		1.80		1.73
May-16	4.80	0.90		5.00		2.04
Jun-16	6.00	0.70		4.90		1.74
Jul-16	6.00	0.60		4.10		1.57
Aug-16	4.90	0.60		1.85		1.53
Sep-16	3.80	0.50		4.20		1.43
Oct-16	3.20	0.50		0.75		1.39
Nov-16	3.40	0.50		2.10		1.32
Dec-16	4.40	0.50		2.10	37.30	1.37
Jan-17	5.70	0.70		1.30		1.57
Feb-17	6.00	0.70		5.10		2.69
Mar-17	4.20	0.70		1.10		1.88
Apr-17	4.00	0.80		1.80		1.73
May-17	4.80	0.90		5.00		2.04
Jun-17	6.00	0.70		4.90		2.18
Jul-17	6.00	0.80		4.10		1.57
Aug-17	4.90	0.60		1.85		1.53
Sep-17	3.80	0.60		4.20		1.43
Oct-17	3.20	0.60		0.75		1.71
Nov-17	3.40	0.70		2.10		1.65
Dec-17	4.40	0.60		1.89	34.09	2.10
Jan-18	3.80	0.60		1.70		1.54
Feb-18	4.70	0.70		5.80		2.02
Mar-18	3.60	0.70		1.90		1.74
Apr-18	4.70	0.70		5.30		1.92
May-18	4.60	0.70		7.80		2.10
Jun-18	6.00	1.00		6.90		2.32
Jul-18	6.00	0.70		9.00		1.99
Aug-18	6.00	1.00		8.30		2.46
Sep-18	6.00	1.00		8.80		2.33
Oct-18	4.00	0.90		3.80		2.13
Nov-18	6.00	1.10		9.10		2.76
Dec-18	6.00	1.10		8.70	77.10	2.71
Jan-19	6.00	1.30		5.00		3.80
Feb-19	4.30	1.30		4.10		2.54
Mar-19	6.00	1.20		4.90		2.58
Apr-19	4.60	1.00		4.00		2.05
May-19	6.00	1.00		12.10		2.74
Jun-19	4.00	1.00		5.10		2.08
Jul-19	5.40	0.70		4.60		1.64
Aug-19	3.40	0.50		3.50		1.42
Sep-19	4.30	0.50		2.90		1.34
Oct-19	6.00	0.50		7.00		1.45
Nov-19	4.10	0.50		2.20		1.58
Dec-19	3.90	0.60		3.50	58.90	1.70
Jan-20	5.60	0.80		3.70		1.86
Feb-20	4.00	0.90		3.80		1.97
Mar-20	3.80	0.90		2.30		1.71
Apr-20	6.00	0.80		6.50		1.91
May-20	4.00	0.80		3.10		1.90
Jun-20	6.00	0.80		8.30		1.85
Jul-20	3.40	0.50		3.10		1.43
Aug-20	4.90	0.70		10.30		1.83
Sep-20	4.20	0.70		4.40		1.75
Oct-20	4.90	0.80		5.30		1.85
Nov-20	6.00	0.80		4.70		2.02
Dec-20	6.00	1.00		6.10	61.60	2.48
Jan-21	4.00	1.00		2.25		2.02
Feb-21	4.40	1.00		5.00		2.20
Mar-21	4.90	1.00		1.90		2.08
Apr-21	3.70	1.00		3.40		1.87
May-21	4.40	0.80		4.00		1.67
Jun-21	3.80	0.70		3.70		1.60
Jul-21	3.80	0.60		5.20		1.45
Aug-21	4.80	0.60		6.40		1.45
Sep-21	6.00	0.70		6.60		1.69
Oct-21	6.00	0.70		5.30		1.59
Nov-21	3.50	0.70		1.10		1.57
Dec-21	3.10	0.60		0.70	45.55	1.41

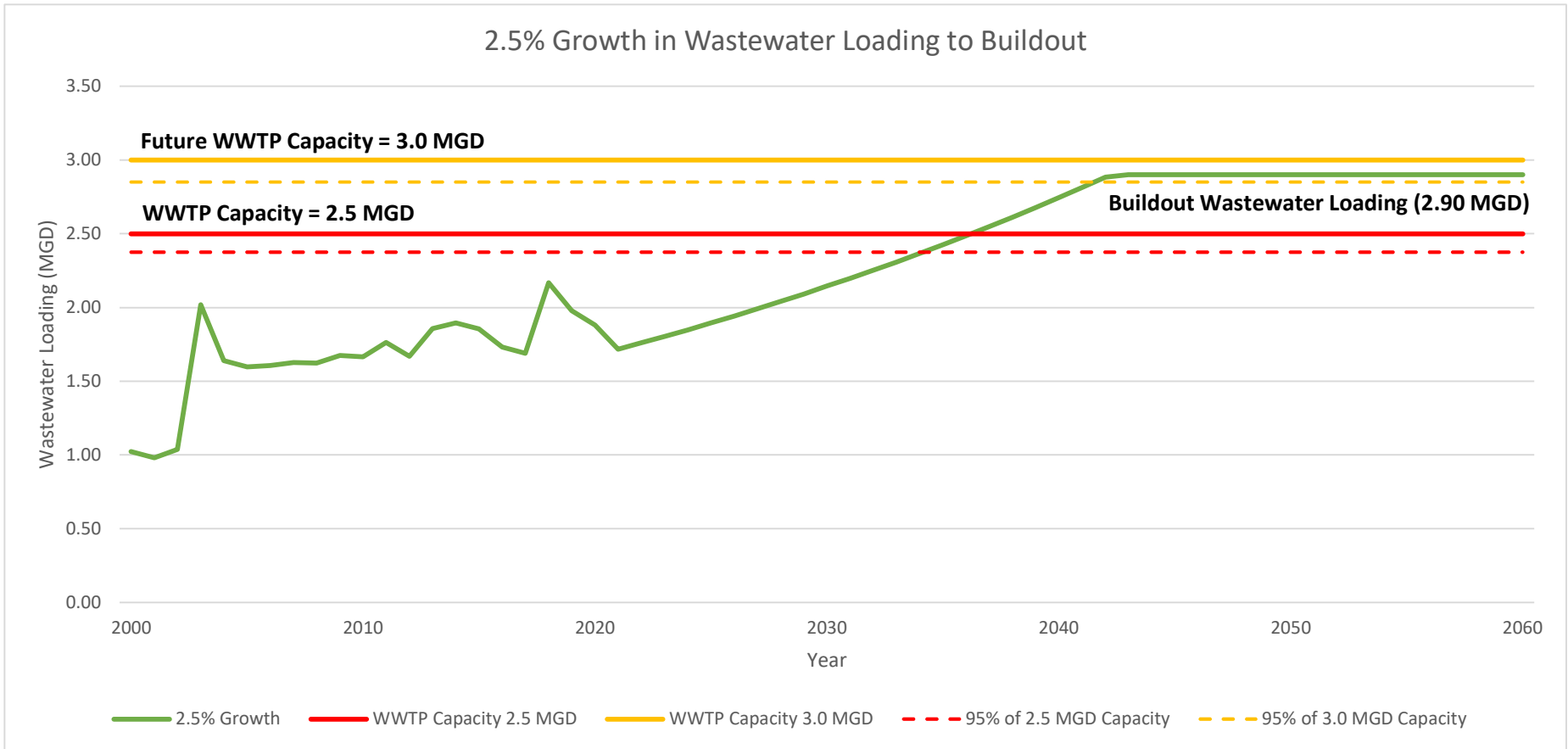


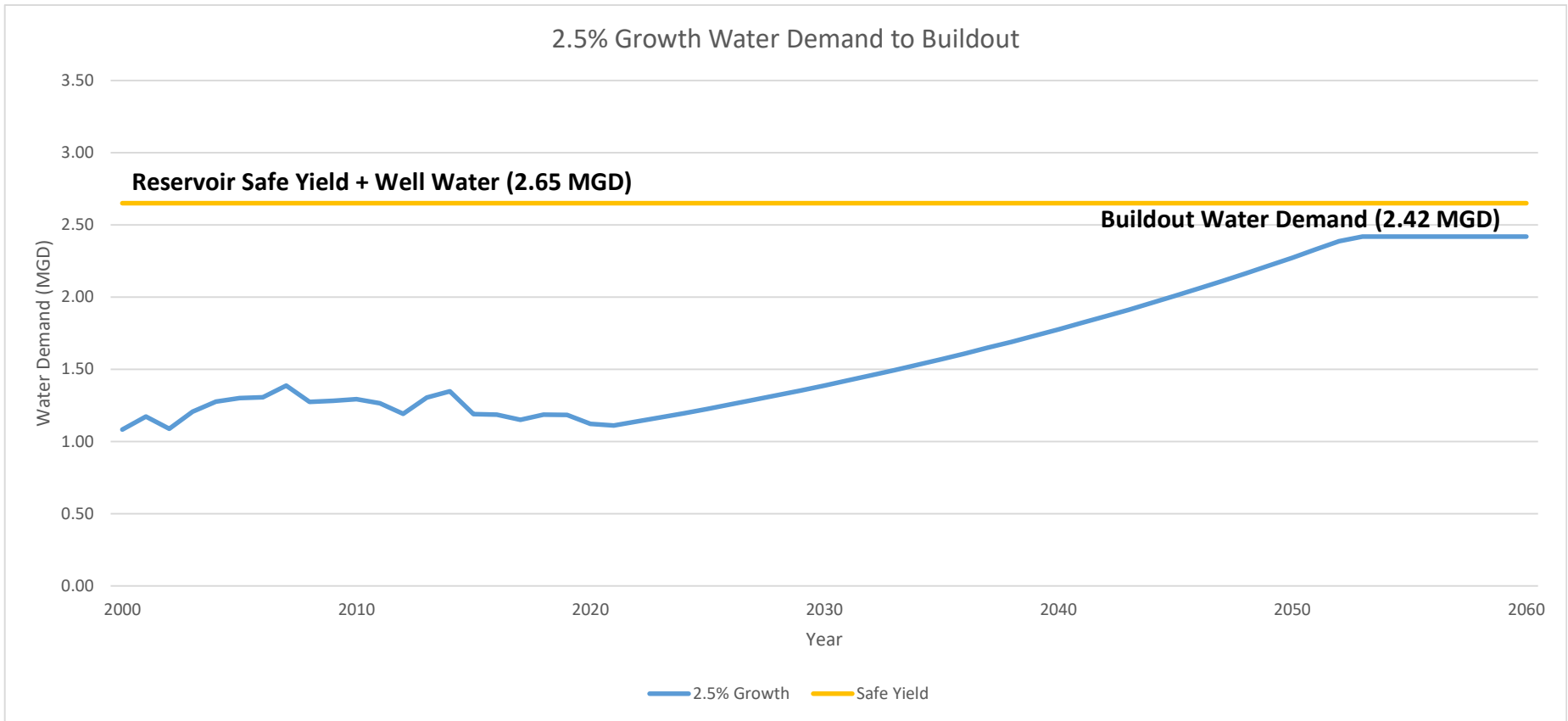


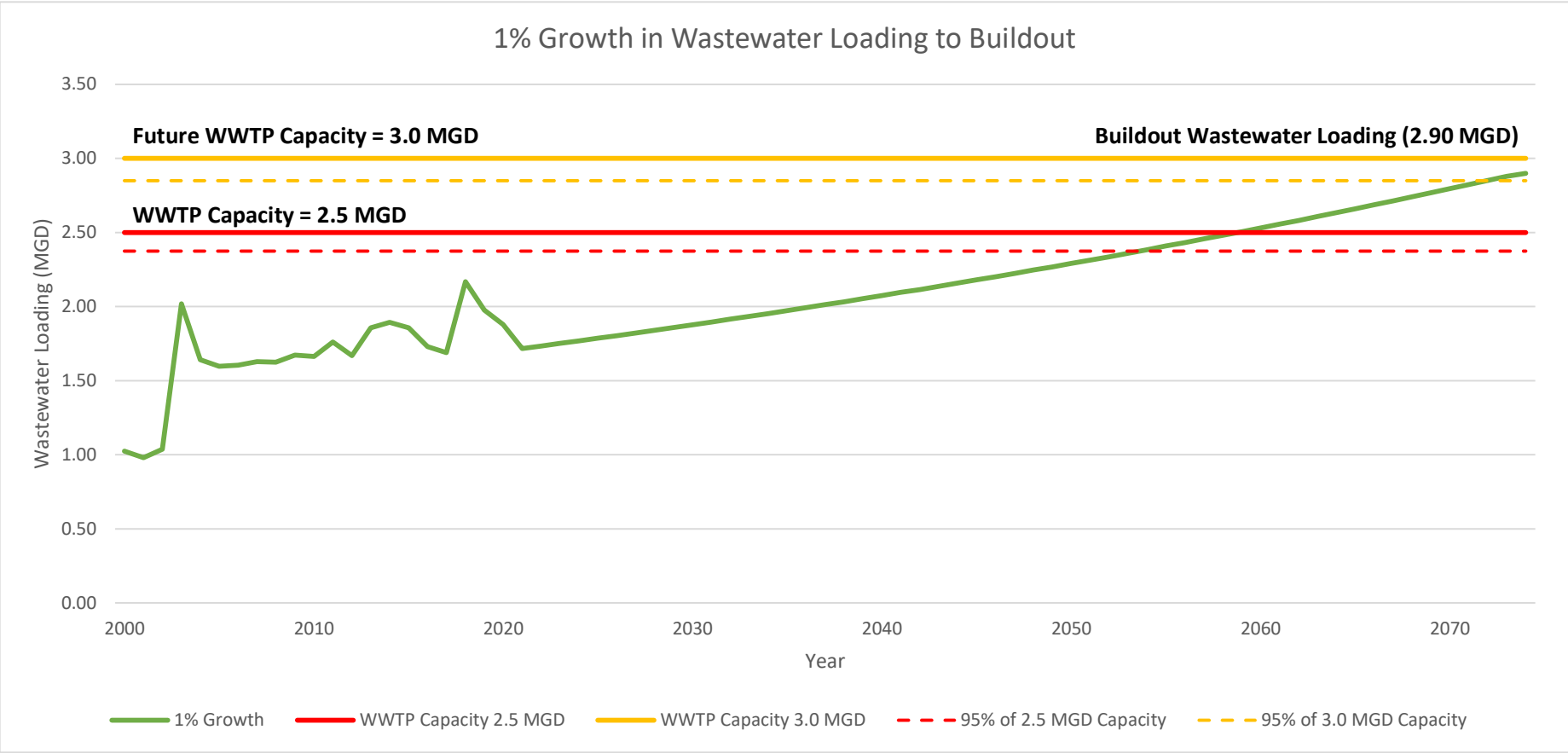
Totalized Units Based on Project Development		IN-TOWN							OUT OF TOWN				TOTALS	
		Approved Projects within Town Limits	Partially Approved/In Process Projects within Town Limits	Vacant Parcels within Town Limits	Lee Highway	Old Town	Frost/Broadview	East Shirley	Entitled Single Family Homes	Arrington Option C	Laurel Ridge Community College	Water only Customers		Sewer only Customers
Residential	Single-Family (units)	190	36	331	-	206	235	117	50	314	-	83	22	1,479
	Multi-Family (units)	-	-	-	-	-	120	-	-	-	-	-	-	120
	Apartment (units)	-	-	-	1,336	84	-	-	-	-	-	-	-	1,420
	Townhouse (units)	-	-	34	108	7	-	84	-	63	-	-	-	296
	Senior Home (units)	-	-	-	-	-	60	-	-	-	-	-	-	60
	Hotel (rooms)	-	-	-	115	115	115	-	-	15	-	-	-	360
Commercial	General (SF)	-	12,550	60,161	98,000	10,000	20,000	-	-	-	-	-	-	200,711
	Entertainment (SF)	-	-	-	100,000	145,000	-	-	-	-	-	-	-	245,000
	Academic (SF)	-	-	-	220,000	-	-	-	-	-	-	-	-	220,000
	Office/Employment (SF)	-	-	-	40,000	-	-	-	-	-	-	1	-	40,000
	Medical Offices (SF)	-	-	-	-	-	50,000	-	-	-	-	-	1	50,000
Industrial	General (sq ft)	-	-	759,500	-	-	-	-	-	-	-	-	-	759,500
Community College	Campus (units)	-	-	-	-	-	-	-	-	3,474	-	-	-	3,474







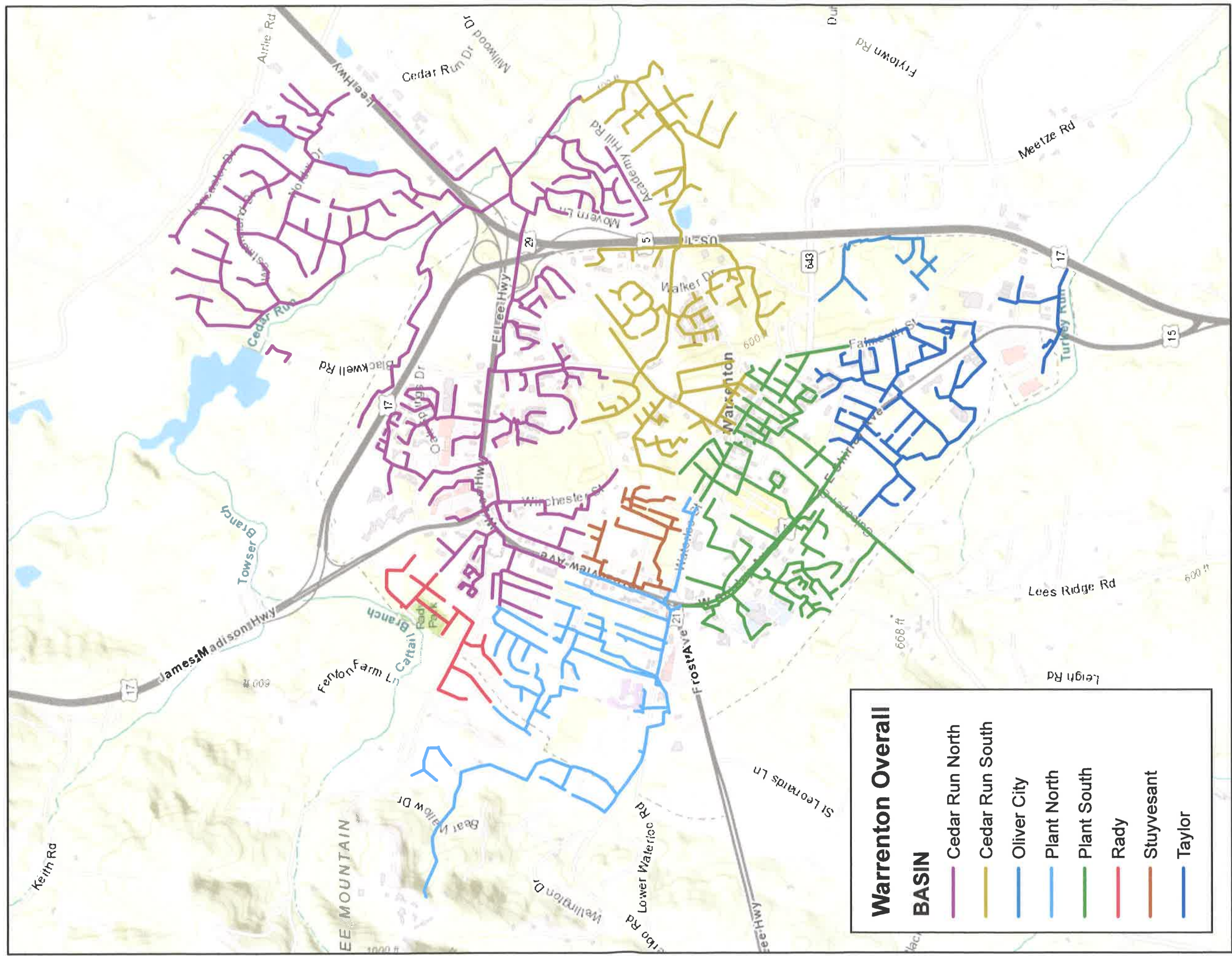


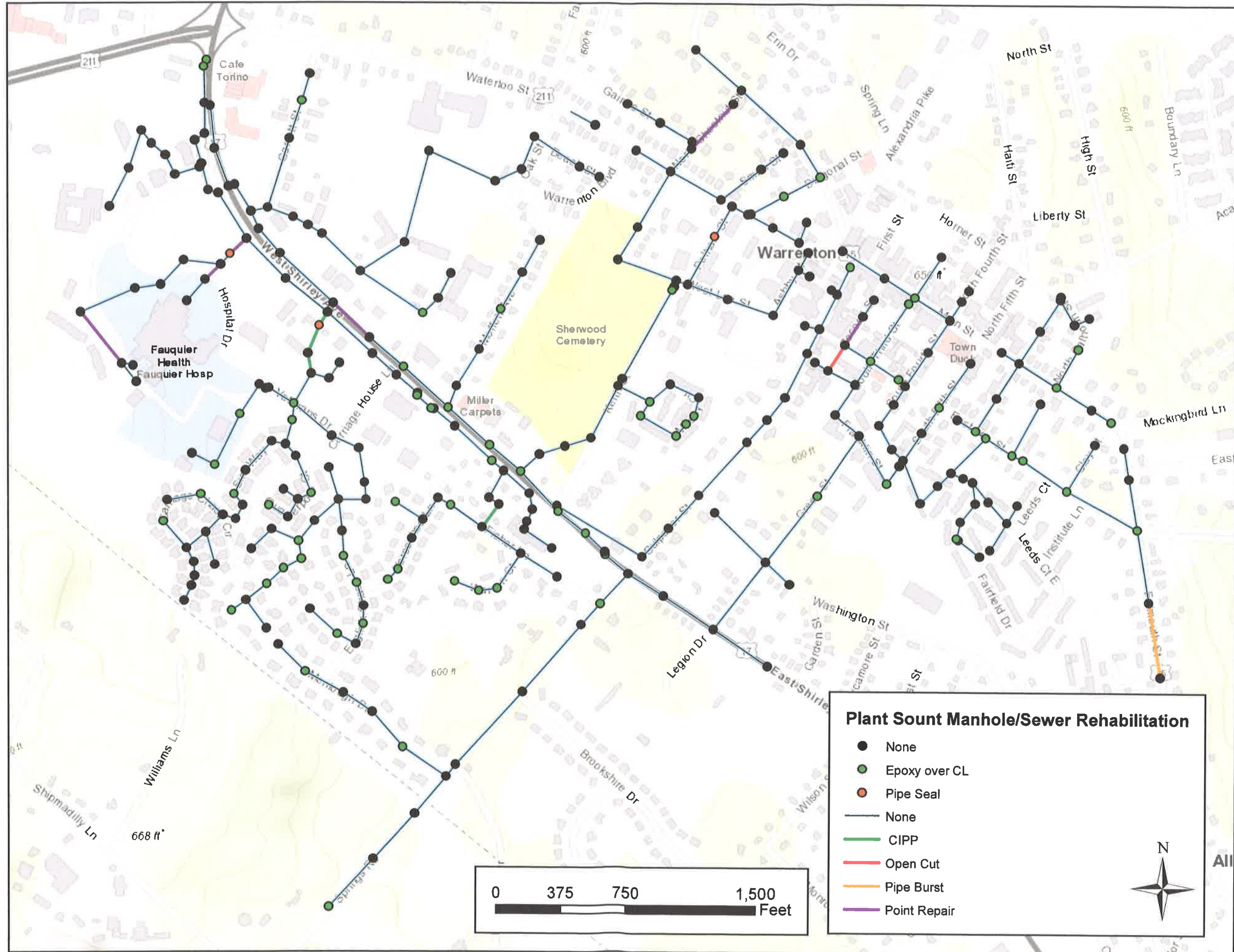


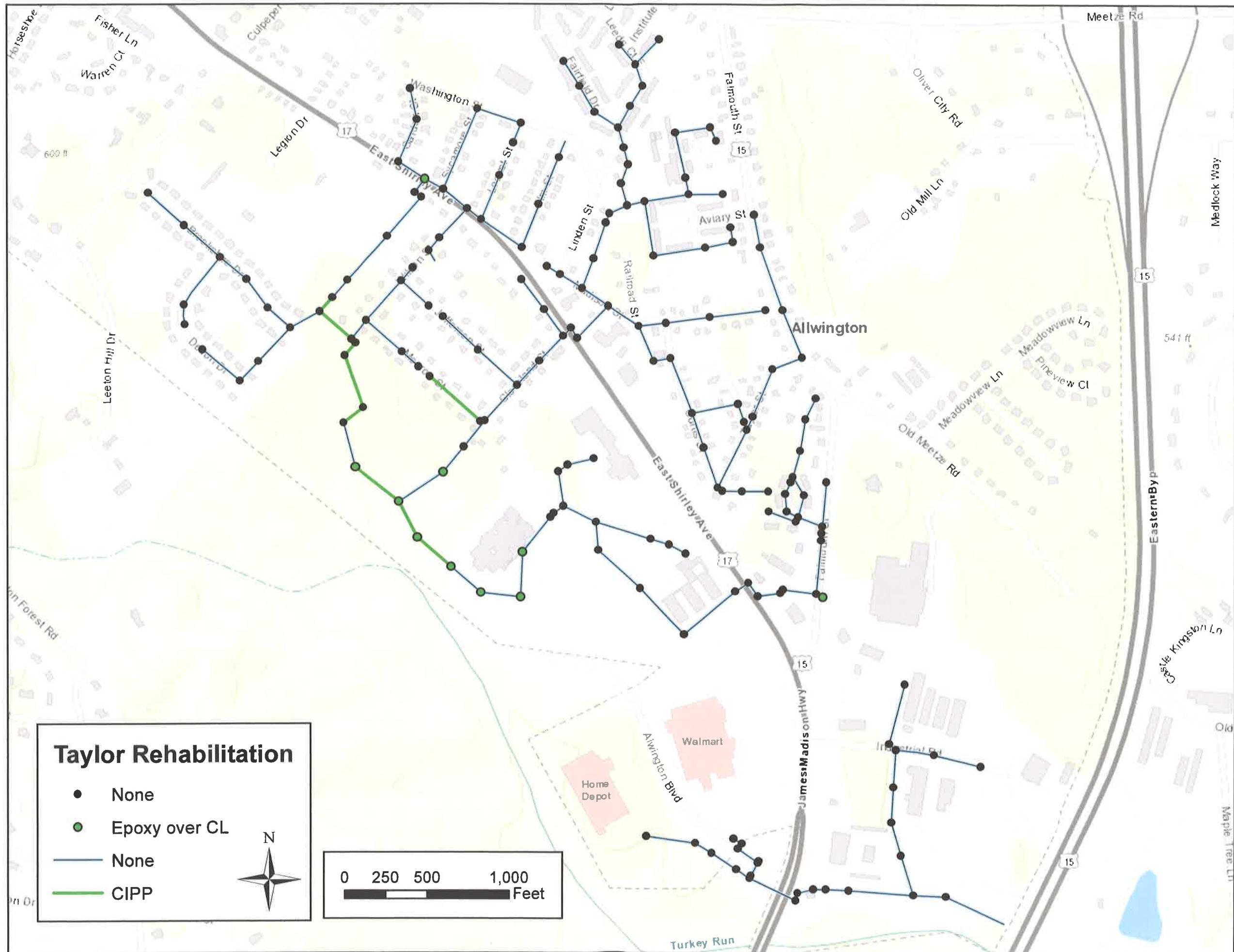
Warrenton Design and Construction Progress

Basin	CAR	Phase I			Phase II			Design Drawings	Sewer Rehab				Lateral Rehab		Manhole Rehab			
		Smoke Testing	Manhole Inspections	Zoom Inspections	CAR	Dye Tests	CCTV		Pipe Burst / Replace	CIPP	Point Repair	Add Manhole	Cleanout Caps	Line Lateral	Manhole Inserts	Liner	Root Treatment	Misc.
Cedar Run North Total Pipes: 630 Total Footage: 132,315 Total Manholes: 624	Jun-18	Complete 42,500'	Complete 208	Complete 378	Nov-18	Not Recommended	Complete 18,600'	Complete		Incomplete 8 1714'	Incomplete 8		Incomplete 6	Incomplete 15	Incomplete 55	Incomplete 6		Incomplete 1 Replace Chimney
Cedar Run South Total Pipes: 299 Total Footage: 59,303 Total Manholes: 296	Feb-18	Complete 61,000'	Complete 268	Complete 611	Nov-18	Complete 14	Complete 7,700'	Complete	Complete 1 223'	Incomplete 6 968'	Incomplete 6		Complete 100	Incomplete 24	Complete 70	Complete 2		Complete 1 Cone Replacement, 1 New Chimney Seal
Plant North Total Pipes: 219 Total Footage: 46,157 Total Manholes: 214	Oct-17	Complete 45,000'	Complete 187	Complete 441	May-18	Complete 9	Complete 11,000'	Complete		Complete 6 1003'	Complete 6	Complete 1	Complete 40		Complete 26	Complete 36	Complete 3	Complete 1 Wall Patch
Plant South Total Pipes: 301 Total Footage: 58,631 Total Manholes: 301	Nov-17	Complete 57,000'	Complete 264	Complete 633	Jun-18	Complete 24	Complete 8,800'	Complete	Incomplete 2 608'	Complete 3 369'	Incomplete 9		Complete 15	Incomplete 23	Complete 61	Incomplete 61	Incomplete 2	Incomplete 4 Pipe seals
Rady Total Pipes: 42 Total Footage: 10,406 Total Manholes: 42		None	None	None		None	Complete 5,600'	None		Complete 26 6,100'				Complete 46		Complete 25		
Taylor Total Pipes: 180 Total Footage: 34,806 Total Manholes: 178	Jul-18	Complete 13,000'	Complete 33	Complete 62	Dec-18	Complete 2	Complete 5 2,000'	Complete		Complete 11 2,800'			Complete 6	Complete 42	Complete 13	Complete 11		
Stuyvesant Total Pipes: 58 Total Footage: 11,746 Total Manholes: 56	Jul-18	Complete 9,800'	Complete 42	Complete 85	Dec-18	Not Recommended	Complete 12 2,400'	Complete		Complete 9 2,100'	Complete 9		Complete 6	Complete 29	Complete 26	Complete 5		Incomplete Seal Manhole Cover

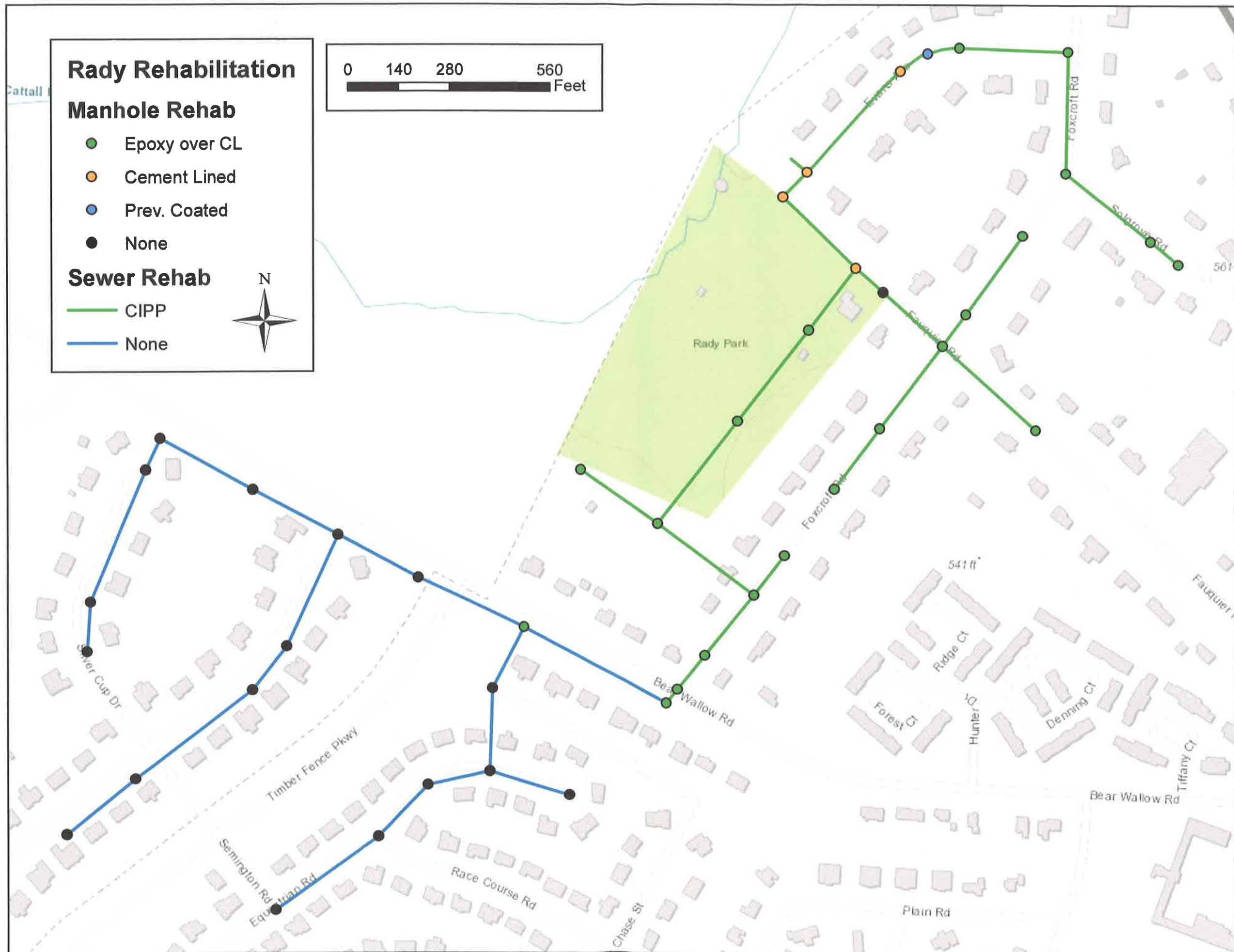
CIPP Status	Total Footage
Complete	12,372
Incomplete	2,682
Pipe Burst	
Complete	223
Incomplete	608

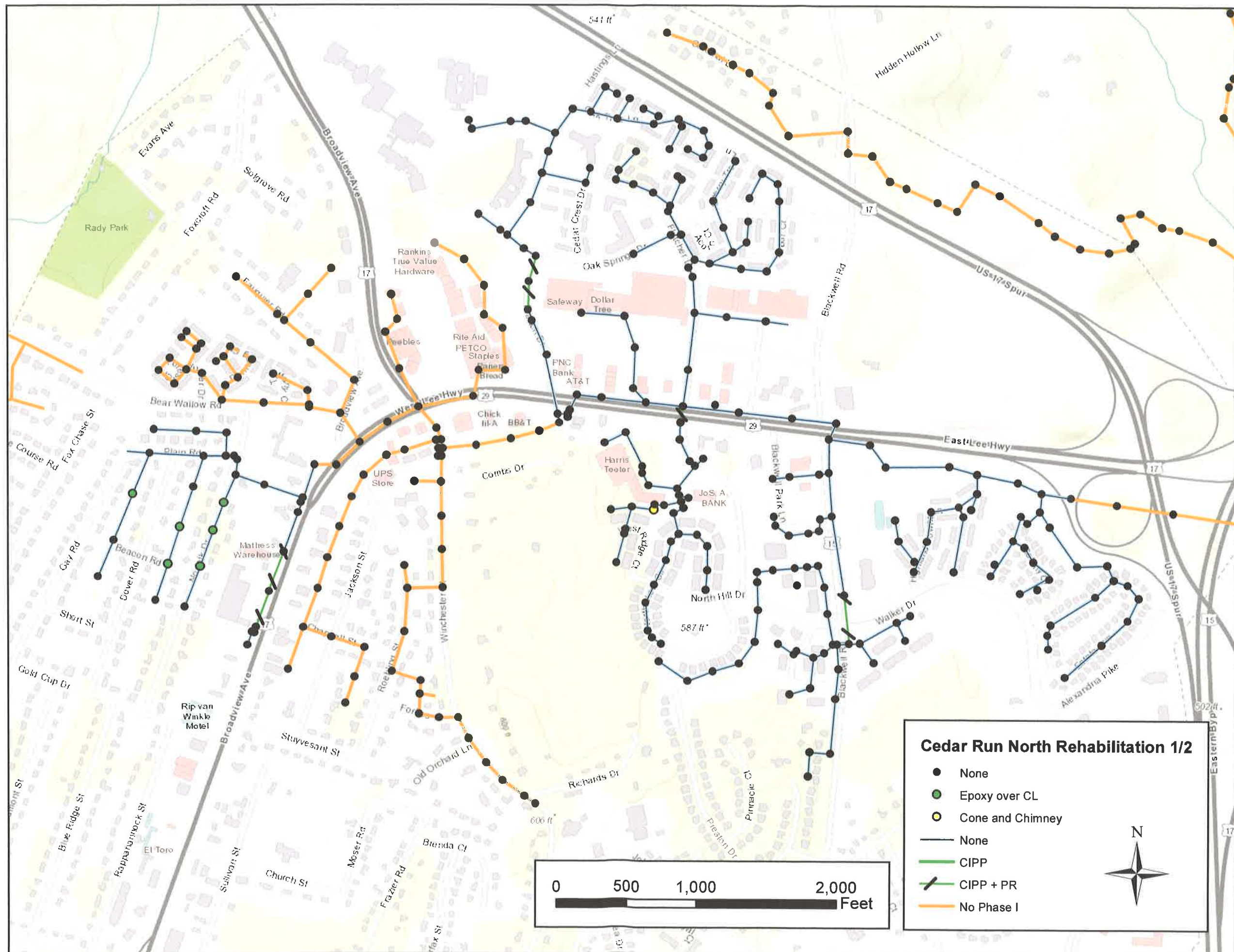


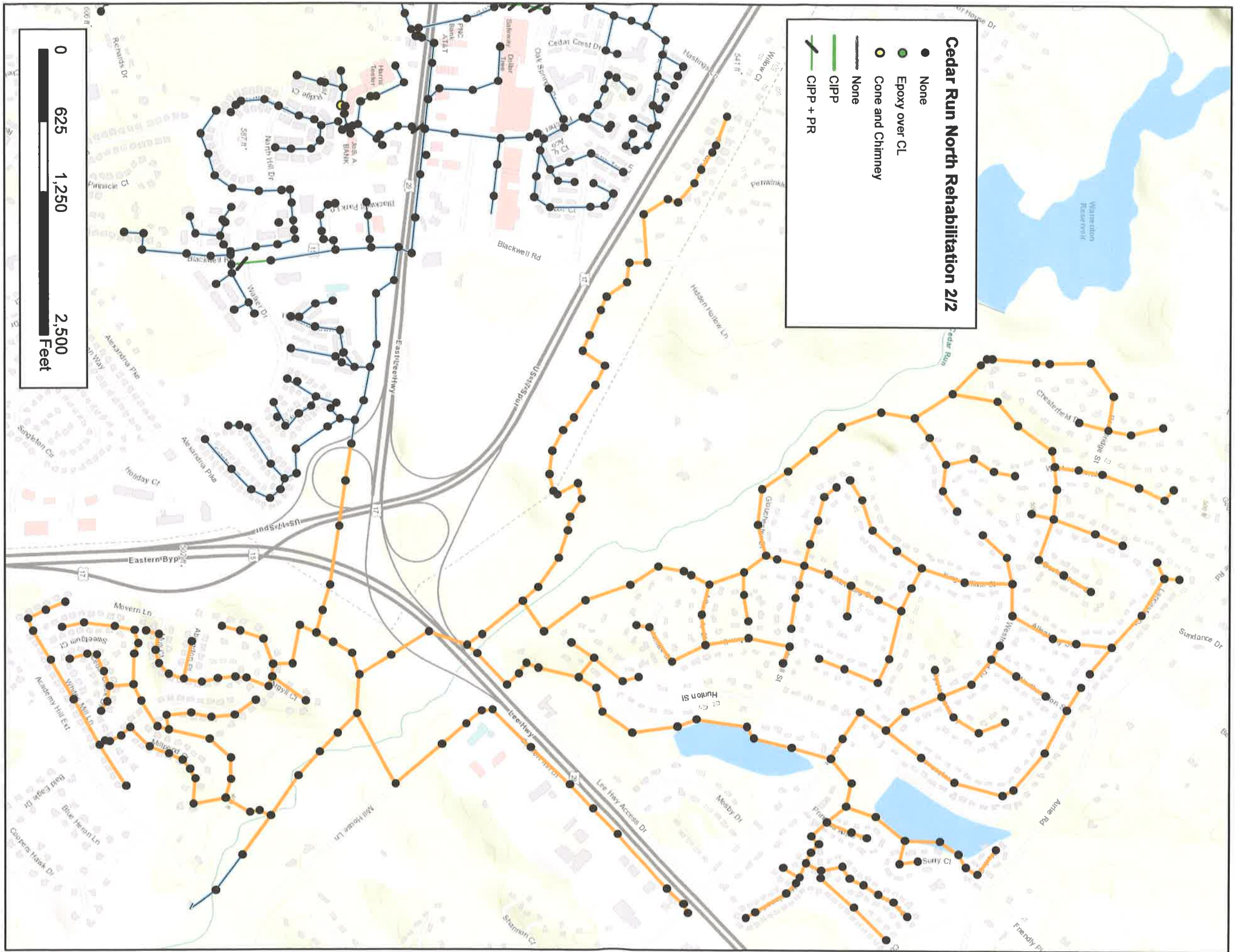


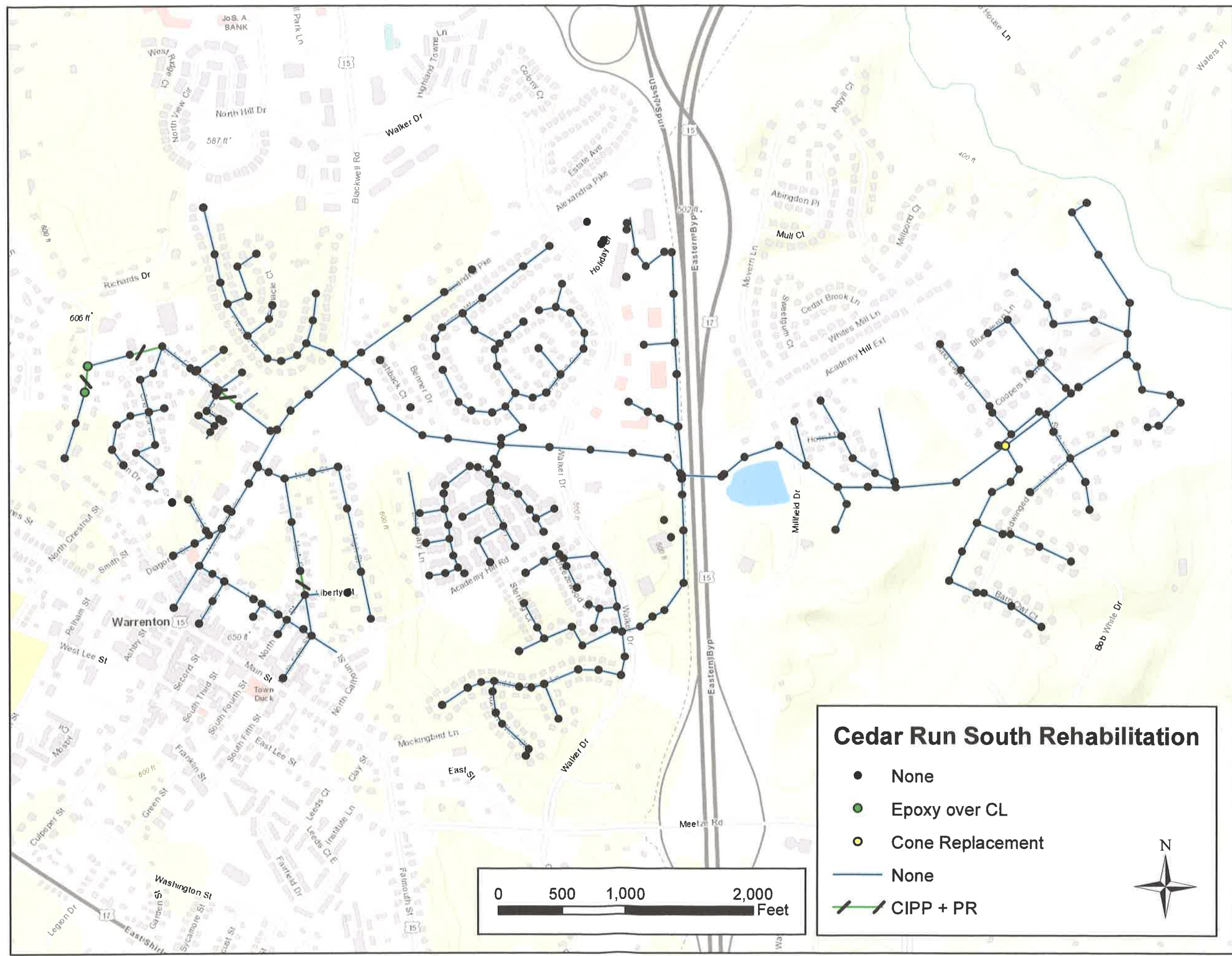


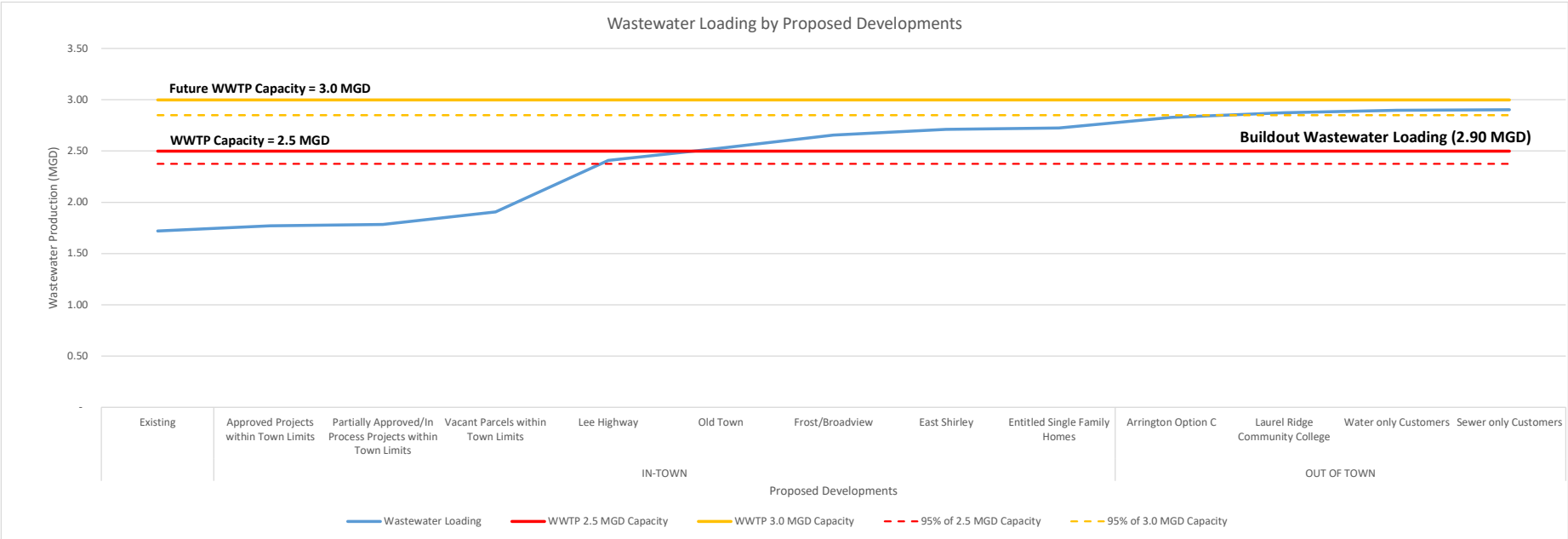


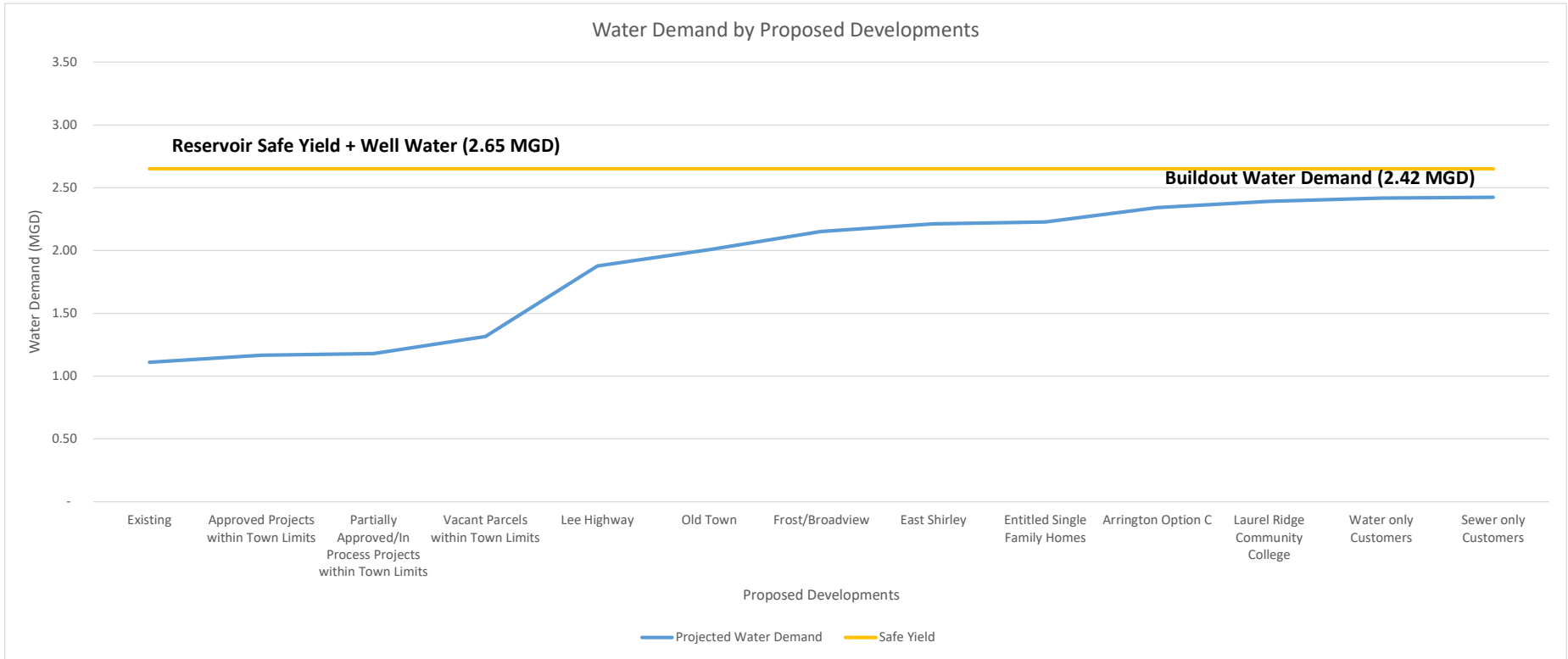












Town of Warrenton – Water and Sewer System Capacity Evaluation Update



Town of Warrenton, VA

Work Order Number: 18672

Draft Report
12/06/2022



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1. Executive Summary

Whitman, Requardt & Associates (WRA) has updated the April 2015 Water and Sewer Capacity Evaluation to include new data and to determine the impact of potential new housing and commercial development in the Town and in the Town’s water and wastewater service area. Data on potential development was provided by the Warrenton Community Development Department. WRA estimated water demand and wastewater loadings from new developments including impacts to water and wastewater system capacity from overall development over time through year 2040.

The current water system capacity is 2.68 MGD from 2 reservoirs and 3 groundwater production wells. The Town’s Water Filtration Plant has a capacity of 3 MGD. Water from the reservoirs is treated at the Filtration Plant and well water is treated at the well head. Average water production from 2015 through 2021 is 1.16 MGD (**Figure 3.1**). The current wastewater system treatment capacity at the Town’s Wastewater Treatment Plant is 2.5 MGD. The average daily wastewater loading from 2015 through 2021 is 1.86 MGD (**Figure 4.1**). The Town is planning on expanding the capacity of the Wastewater Treatment Plant to 3 MGD over the next 10 years.

The estimated water system demand from the combination of the developments analyzed by WRA is 1.31 MGD. The estimated buildout water demand plus the 2021 water demand of 1.11 MGD provides an estimate of 2.42 MGD of future water demand (**Figure 5.1**). The estimated wastewater loading demand from the combination of the developments is 1.18 MGD. The estimated buildout wastewater loading plus the 2021 wastewater loading of 1.72 MGD provides an estimate of 2.9 MGD of future wastewater loading (**Figure 6.1**).

Per this analysis the Town of Warrenton has adequate water supply capacity and wastewater treatment capacity to accommodate the new housing and commercial developments identified by the Community Development Department. Several assumptions and assertions are included in this conclusion:

- Water demand projections are conservative. Water demand and wastewater loading can be monitored as developments came online to project future demand with greater accuracy.
- Unaccounted for water or the difference between billed water and water production and billed water is approximately 10%. This compares favorably to other communities in Northern Virginia
- The Virginia Department of Health (VDH) requires that communities submit a plan for increasing or providing for additional water system capacity when demand reaches 80% of permitted capacity. For Warrenton, the 80% threshold limit will be reached when all the development included in this analysis is in place. Depending on the Town’s service area growth rate, this threshold could be reached in the 2050 decade or beyond.
- Extraneous water entering the wastewater system, also referred to as infiltration and inflow (I&I) constitutes about 49% of the wastewater flow entering the wastewater treatment plant. This level of I&I, although high, is not unusually high for wastewater collection systems similar in age to Warrenton’s. WRA recommends that the Town continue to investigate and remediate I&I problems in the service area.
- The Virginia Department of Environmental Quality (DEQ) recognizes flow loadings approaching 95% of the design capacity (or 2.85 MGD) as the threshold level for planning WWTP capacity management strategies and improvements. This threshold level will be reached when all the development included in this analysis is in place. Depending on the Town’s service area growth rate, this threshold could be reached in 2045 or beyond.
- The Turkey Run Pump Station can be used to receive flows from Laurel Ridge Community College. Although flows from Laurel Ridge can be managed by the Turkey Run PS, a detailed analysis should be made of the pump station before any additional flows are added.
- The Taylor Run Pump Station cannot receive flows from the Arrington Development and the Turkey Run Pump Station without improvements to the existing pumping system including the wet well. A detailed analysis of the existing system with recommendations for improvements to handle additional flows should be conducted before any new flows are added to this system.

2. Purpose

The Town of Warrenton authorized Whitman Requardt and Associates (WRA) to update the Water and Sewer System Growth and Capacity Report prepared in April 2015. The 2015 report evaluated existing and future water demand and wastewater loading based on developable lots within the Town and the surrounding service area.

This report will analyze current and future loadings and demands based on information provided by the Town's Community Development Department and Public Works & Utilities Department. This information includes data on new residential and commercial developments that have been approved by the Town or have been submitted to the Town for review and approval. In this report the following information was also included:

- Wastewater flow data from the Town's wastewater treatment plant (WWTP) since 2015
- Water production data from the Town's water treatment plant (WTP) since 2015
- Water supply information for the Town's reservoirs and wells
- Water billing information
- Proposed capacity changes to treatment capacity at the Town's WWTP
- Capacity of the Turkey Run Pump Station (PS #9) and the Taylor Run Middle School Pump (PS #6) to convey future wastewater flows from new developments in their respective sewer sheds

3. Existing Water Capacity and Demands

3.1 Water Production, Distribution and Demand

Water supply for the Town of Warrenton is provided by 2 reservoirs, located on Cedar Run, and 3 groundwater wells. The Airlie reservoir (upstream) and the Warrenton reservoir (downstream), operate in series. The Airlie Reservoir provides a safe yield of 1.16 million gallons per day (MGD) and the Warrenton Reservoir provides a safe yield of 1.14 MGD for a total reservoir safe yield of 2.3 MGD. Reservoir safe yield is defined as the rate at which water can be withdrawn during a critical dry period without depleting the supply to such an extent that withdrawal of water is no longer economically feasible. Safe yield is determined by the Commonwealth of Virginia Department of Environmental Quality (DEQ). Water from the Airlie reservoir flows to the Warrenton reservoir further downstream on Cedar Run and is withdrawn from the Warrenton Reservoir for treatment at the Water Filtration Plant. The Water Filtration Plant has a capacity of 3 MGD. Water from the filtration plant is distribution throughout the Town and Town’s water service area.

The Town also owns and operates 3 groundwater production wells. Well #5 and Well #6 provide 0.076 MGD of water directly to the Town’s distribution system. Well #3 provides an additional 0.304 MGD of water supply and the Town’s total groundwater capacity is 0.38 MGD. Similar to reservoir safe yield, wells are not operated at full capacity all of the time. However, for purposes of this analysis, groundwater well capacity of 0.38 MGD is used. Water from the Town’s wells are treated at the wellhead before distribution.

The Town has an approximate total water supply capacity of 2.68 MGD (reservoir plus wells).

Figure 3.1 depicts average water production from the reservoir and groundwater systems for the years 2015 to 2021:

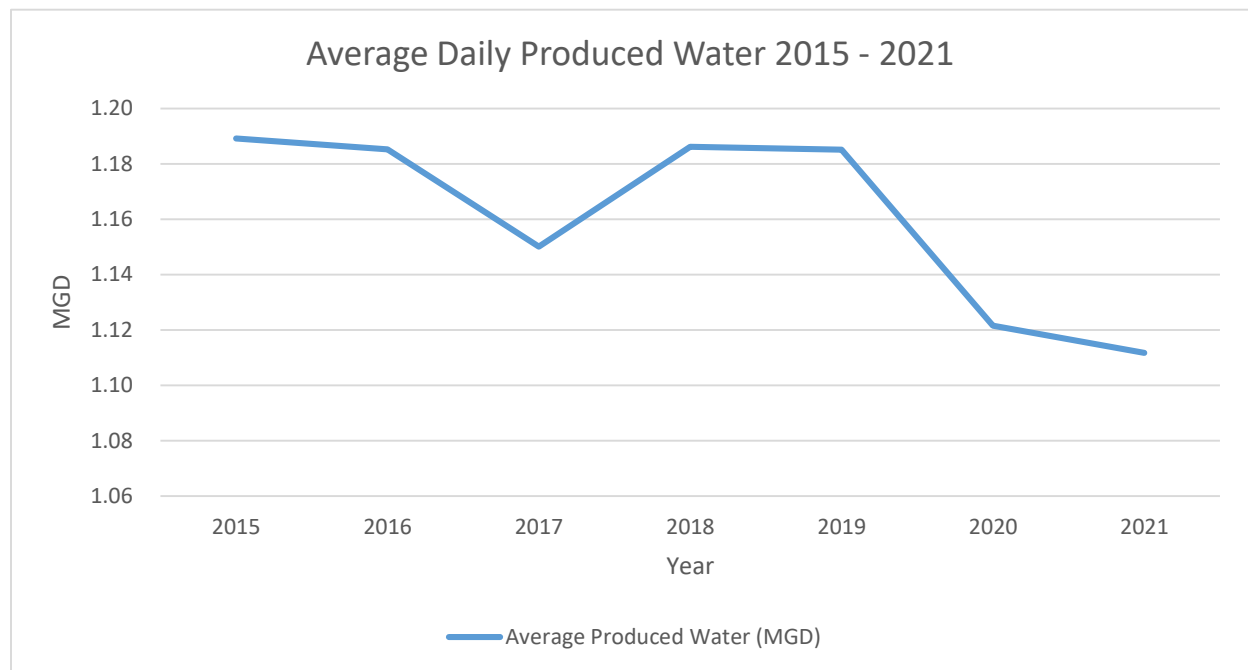


Figure 3.1: Average Daily Produced Water 2015 - 2021

The average water production for 2015 through 2021 is 1.16 MGD.

3.2 Water Production Data and Water Billing Data

WRA analyzed water production data and water billing data for the period 2015 through 2021. There are approximately 4,800 water accounts (residences and businesses) billed monthly. The billing data provided by the Town was adjusted for sale of water to construction contractors and other users not normally billed and for water lost through leaks at the water meter. Water used to fight fires, flush water and sewer mains, lost through leaks in the mains or removed illegally through fire hydrants is not accounted for. Water accounts are billed at the end of every month.

Water produced/distributed data was compared to billed water data on a month-to-month basis. Water volumes were converted to millions of gallons per day (MGD) and the difference between produced/distributed water and billed water was compared. The difference between these two values, is defined as unaccounted for water. Figure 3.2 depicts unaccounted for water per year for the period 2015 to 2021.

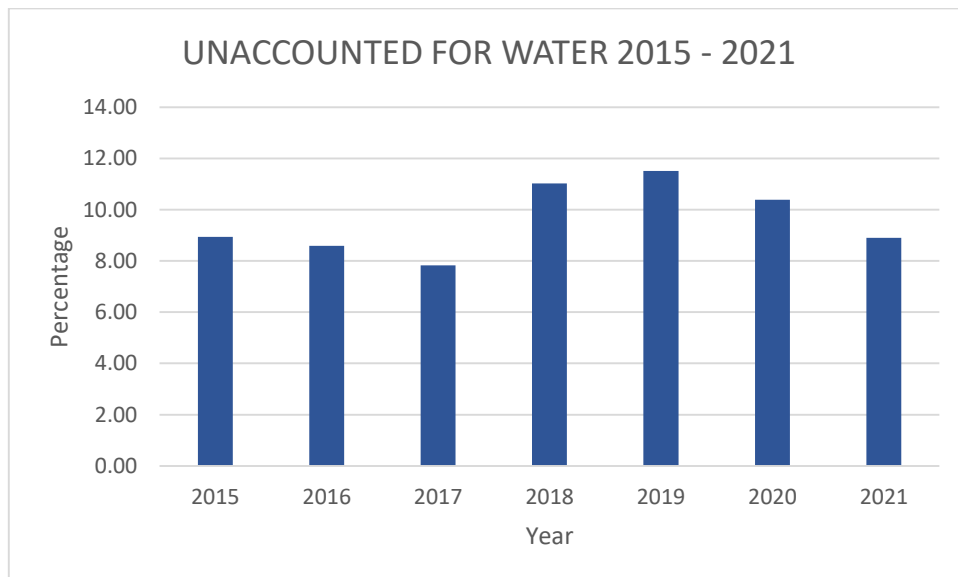


Figure 3.2: Unaccounted for Water 2015 - 2021

The average unaccounted for water in the most recent 7-year period is 9.6%. Unaccounted for water includes water lost through leaks in the distribution system, water used in firefighting, water taken illegally through fire hydrants and other sources and water used to flush mains and for other water system maintenance work.

The Town's 10% level of unaccounted for water compares favorably to other communities in Northern Virginia and does not indicate significant problems with the water distribution system or problems with the way the water system is managed.

4. Existing Wastewater Treatment Capacity

The Warrenton Wastewater Treatment Plant (WWTP) is permitted for treatment and discharge of 2.5 million gallons per day (MGD), average daily flow. Wastewater flows have averaged approximately 1.86 MGD over the past 7 years. The Town and WRA are currently conducting preliminary engineering for projects that will allow expansion of WWTP capacity to 3.0 MGD, average daily flow. Section 6 of this report describes how future wastewater flow projections will impact the proposed 3.0 MGD WWTP capacity.

4.1 Wastewater Flows

Daily wastewater flow data for the period 2015 – 2021 is shown in Figure 4.1.

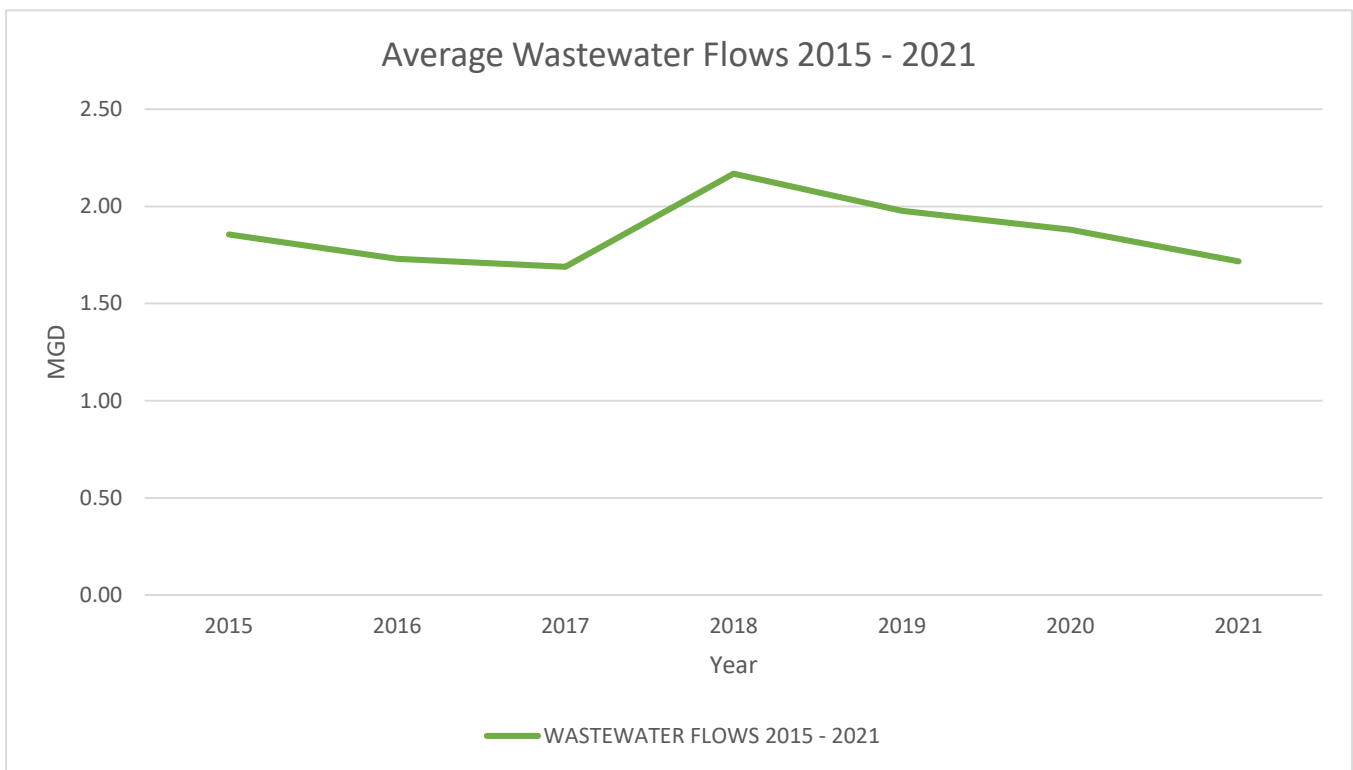


Figure 4.1: Average Wastewater Flows 2015 – 2021

Wastewater flows include sewage discharge from households and businesses and extraneous water that enters the collection pipeline system. Extraneous water sources include infiltration of groundwater through defected sewer pipe joints, manhole walls and other pipe defects in the collection system. Extraneous flows include Inflow of water discharged directly into the sewer system through basement and foundation drains, roof downspouts, manhole covers, cross connections with stormwater systems and other direct connections. Wastewater flows in municipal systems vary from year to year because infiltration and Inflow (I&I), varies depending on rainfall. I&I tends to be higher in years with excessive precipitation (rain and snow) such as occurred in 2018.

4.2 Wastewater System Extraneous Flows

WRA compared wastewater flow data and water billing data for period 2015-2021. Water billing data is the best measure of water consumed in municipalities. Figure 4.2 shows billed water versus wastewater loadings in the Town of Warrenton for the last 7 years.

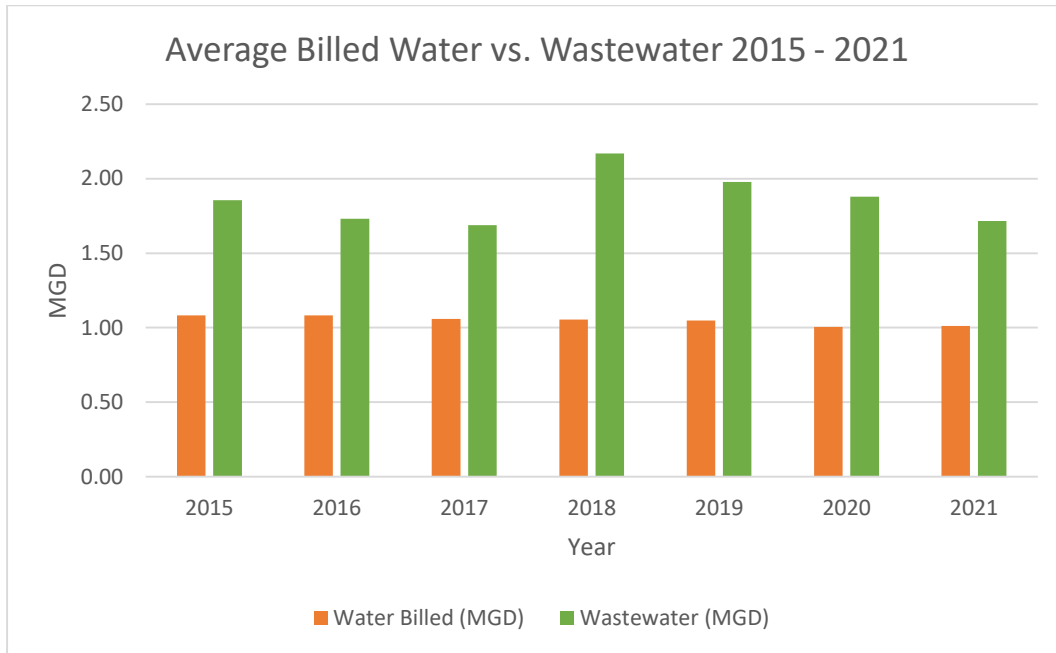


Figure 4.2: Average Billed Water vs. Wastewater 2015 – 2021

Billed water data used in this figure was discounted to account for customer water not returned to the wastewater system such as water used in landscape and lawn irrigation. WRA assumed that 90% of water billed at an account is returned to the wastewater system. Average annual I&I for the past seven years was calculated by subtracting wastewater flows as recorded at the WWTP from billed water (discounted). The difference is the measure of extraneous water or I&I entering the wastewater collection system.

Average I&I in the Warrenton system is calculated to be 0.92 MGD over the past years or 49% of total flows treated at the WWTP. This amount of I&I in the wastewater collection system is not unusual in municipalities with older wastewater collection infrastructure. The calculated 2015-2021 I&I flow component of 49% is approximately the same percentage as the I&I component calculated in the 2015 Water & Sewer System Capacity Evaluation.

5. Future Water Demand

5.1 Projected Water Demand from New Developments

The Town of Warrenton’s Community Development Department provided WRA with data for proposed residential and commercial growth in the Town. Forty-two (42) projects were identified including residential and commercial developments. WRA also included Laurel Ridge Community College as a potential new consumer of Warrenton water and wastewater services. Laurel Ridge Community College is currently not served by the Town’s.

The developments include new housing (Single-family homes, apartments, townhomes, hotels, senior care facilities) and commercial facilities (offices, medical facilities, retail, entertainment, industrial and academic facilities). Projects vary considerably in size from a few single-family houses to hundreds of apartment units. Project status varied also, with some developments approved by Community Development and other projects in review. WRA projected water demand and wastewater loadings for the developments based on the type of residential or commercial unit within the development. WRA used standard water demand (gallons per day) factor for each type of unit based on water demand factors used by the Town and/or by other utilities such as Prince William Service Authority and the Town of Leesburg. Information on the proposed developments, including the number of units, the and the total water demand and wastewater loading generated by the developments is included in Appendix A. The demand factors used to calculate water demand are included in Table 5.1.

Table 5.1: Residential Water Demands per Unit

Residential	Water Demand per Unit (GPD)
Single-Family (units)	300
Multifamily (units)	300
Apartment (units)	300
Townhouse (units)	300
Senior Home (units)	100
Hotel (rooms)	100

It should be noted that conservative demand values were chosen for residential units.

Commercial demand factors are included in Table 5.2.

Table 5.2: Commercial Water Demands per Square Foot

Commercial	Water Demand per Square Foot (GPD)
General (SF)	0.2
Entertainment (SF)	0.2
Academic (SF)	0.29
Office/Employment (SF)	0.29
Medical Offices (SF)	0.29
Industrial	Water Demand per Square Foot (GPD)
General (SF)	0.02

According to the U.S. Department of Education, Laurel Ridge Community College (LRCC) had a student population of 3,474 students in the 2018 – 2019 academic year. WRA used 15 gallons per day per student as the factor for calculating LRCC demand. Demand for proposed classroom facilities not associated with LRCC is based on a GPD/SF basis.

Additionally, there are some residences in Warrenton that are currently not connected to the Town’s water system and/or the sewer system. The Town plans on incorporating these residences into the utility systems in the future and WRA included these units when calculating future water demand.

Table 5.3 summarizes the total number of residential units and commercial square footage and associated water demand for the proposed developments:

Table 5.3: Total Water Demand per Land Use Type

Land Use Type		Total Units	Total Water Demand (gal/day)
Residential	Single-Family (units)	1,479	469,500
	Multi-Family (units)	120	36,000
	Apartments (units)	1,420	426,000
	Townhouse (units)	296	88,800
	Senior Home (units)	60	6,000
	Hotel (rooms)	360	36,000
Commercial	General (SF)	200,711	40,142
	Entertainment (SF)	245,000	49,000
	Academic (SF)	220,000	63,800
	Office/Employment (SF)	40,000	11,600
	Medical Offices (SF)	50,000	14,500
Industrial	General (SF)	759,500	15,190
Community College	Students (unit)	3,474	52,110
TOTAL			1.31 MGD

5.2 Future Water Demand and Water Supply Capacity

Total water demand for the target year 2040 was calculated to be 2.42 MGD, assuming all proposed developments are eventually constructed. This demand projection value includes the average water demand in 2021 (1.11 MGD) plus the total buildout demand (1.31 MGD).

Figure 5.1 displays cumulative water demand by addition of the demand created by the named developments. The order or chronology of the projects is not definitive; however, cumulative water demand will not change.

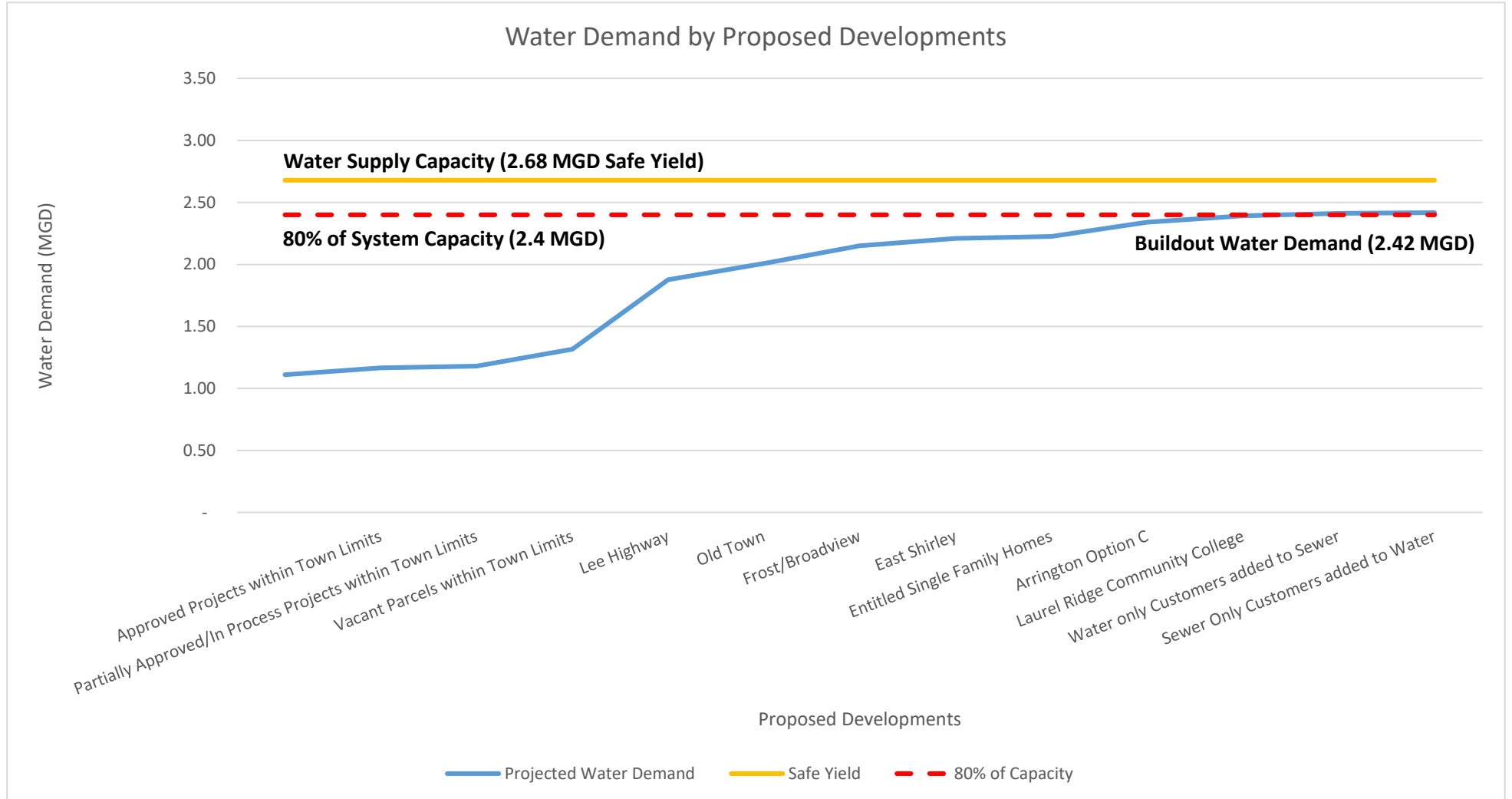


Figure 5.1: Water Demand by Proposed Developments

Buildout (all developments constructed) water demand is 2.42 MGD compared to water supply capacity of 2.68. Estimated demand is 91% of water supply capacity. Virginia Waterworks Regulation 12 VAC 5-590-520 requires municipalities to submit a written plan for developing adequate or additional water supply to the Virginia Department of Health, Office of Drinking Water, when water production exceeds 80% of the permitted design capacity for 3 consecutive months.

It should be noted that the estimated buildout water demand by development is conservative. Although the time frame for the progression of development construction through buildout is unknown, time-step analyses of water demand was also conducted.

An initial time step progression is shown in Figure 5.2. This linear growth time-step progression assumes that all development is completed by 2040, the target year for the current Warrenton Comprehensive Plan. The annual water demand growth rate is 7% for the linear growth model.

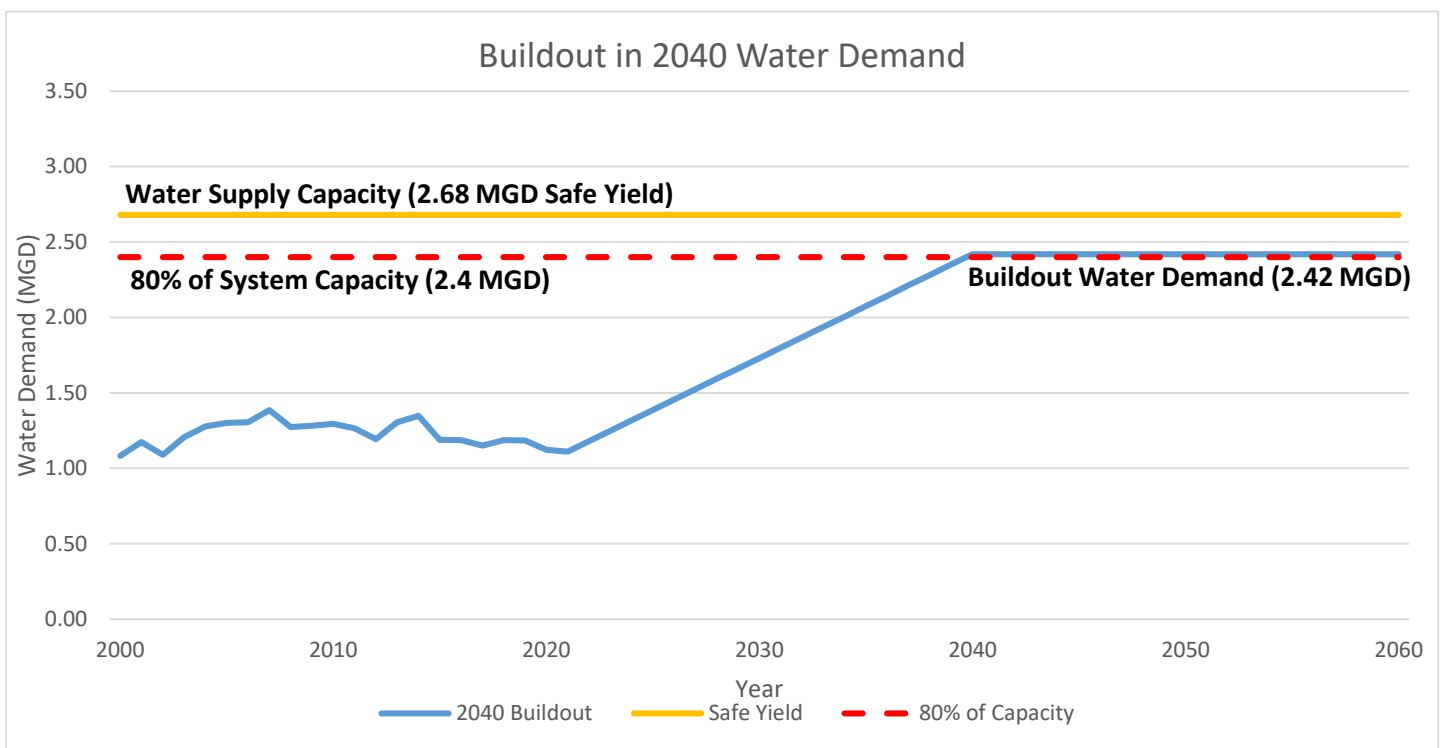


Figure 5.2: Buildout in 2040 Water Demand

Additional water demand growth models were analyzed by WRA. According to the U.S. Census Bureau, population growth in the Town of Warrenton and Fauquier County from 2010 to 2020 averaged 1% annually. Figure 5.3 depicts water demand assuming a 1% annual growth in water demand, similar to the most recent population growth pattern for The Town. For this growth model, 80% of system capacity is reached in 2099.

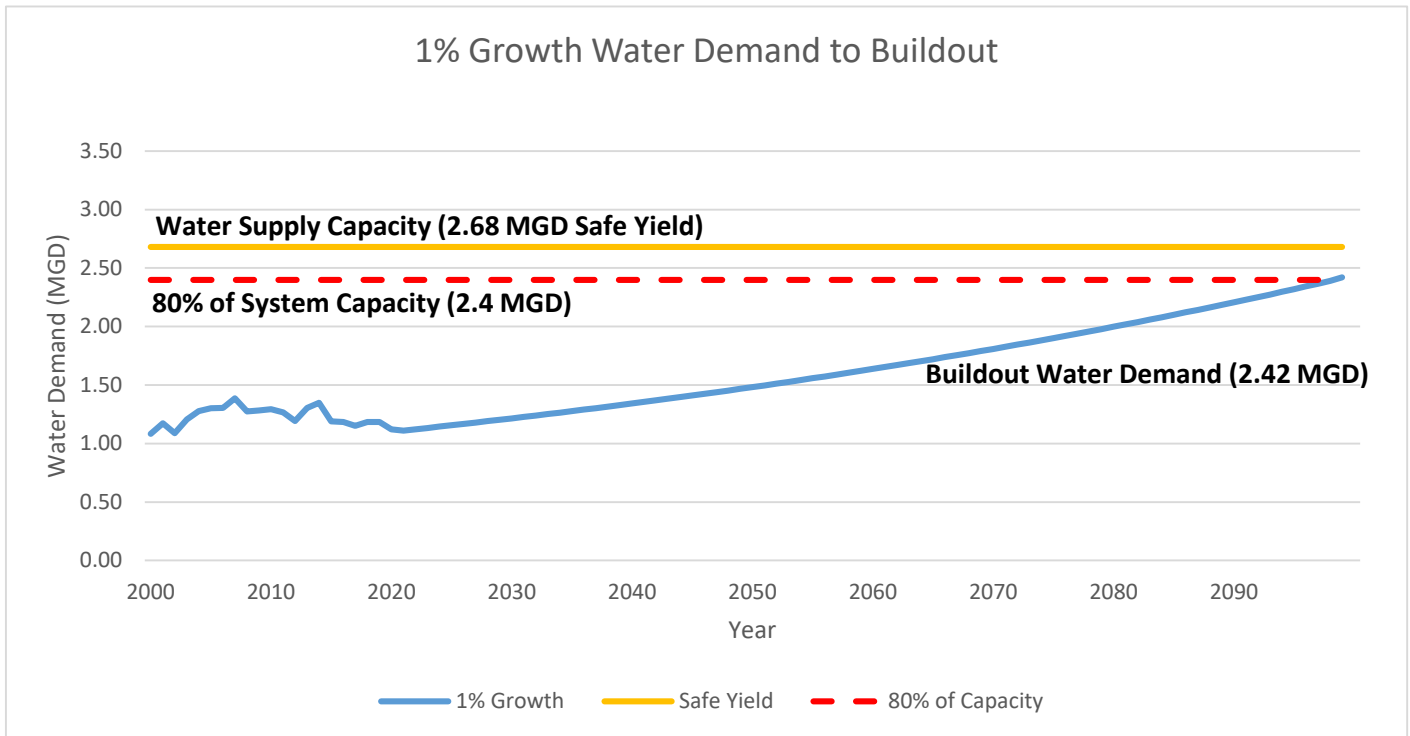


Figure 5.3: 1% Growth Water Demand to Buildout

Figure 5.4 shows a 2.5% annual increase in water demand. This model is more consistent with a more robust population and economic growth that could occur in Warrenton. In this case, 80% of capacity is reached in 2053.

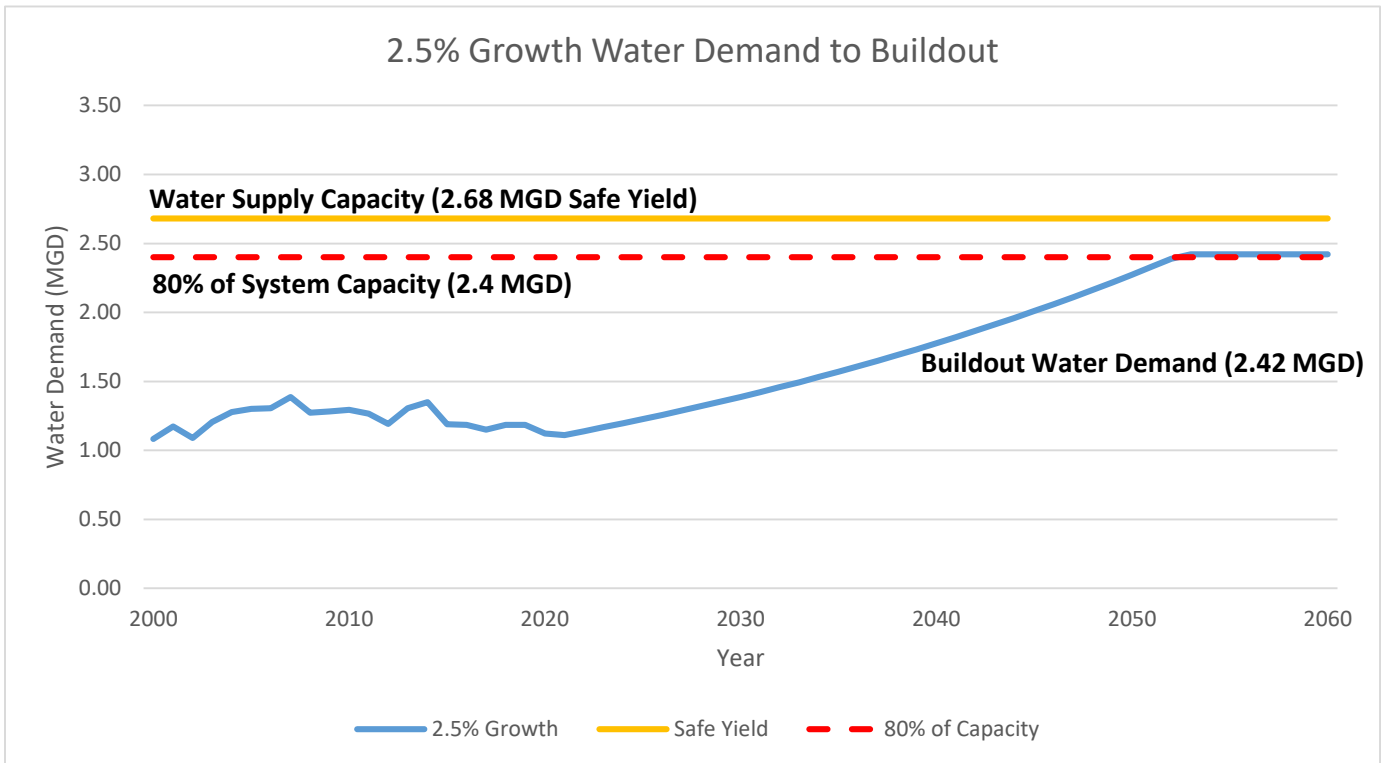


Figure 5.4: 2.5% Growth Water Demand to Buildout

6. Future Wastewater Loading

6.1 Wastewater Loading Projections

Future wastewater loadings are calculated based on an assumed 90% return of water consumed to the wastewater collection system. Water demand projections are described in Section 5 and included in Appendix A. Appendix A includes a compilation of expected wastewater loadings, based on water demand. The estimated total wastewater loading from all the developments described in Appendix A is 1.18 MGD (average daily flow basis).

Future total wastewater loading for Warrenton is estimated by adding the average wastewater flow in 2021 to the estimated buildout flow. The average daily wastewater flow in 2021 was 1.72 MGD and the additional flow from buildout is 1.18 MGD. Total future estimated wastewater loading is 2.90 MGD. It should be noted that the 2021 wastewater loading includes a significant extraneous water (I&I) component. I&I from the new developments is considered negligible in this analysis, although the base I&I in the beginning year of 2021 remains and is a component of overall wastewater loading.

6.2 Future Wastewater Loading and Capacity

Figure 6.1 depicts cumulative wastewater loading by addition of the demand created by the named developments. The order or chronology of the projects is not definitive; however, cumulative water demand will not change. As shown graphically, the capacity of the existing WWTP (2.5 MGD) is exceeded before all the proposed developments are completed. The Town is currently planning on increasing the capacity of the WWTP to 3.0 MGD within approximately 10 years. Under this wastewater loading model, The Town's wastewater treatment plant would accommodate development currently planned.

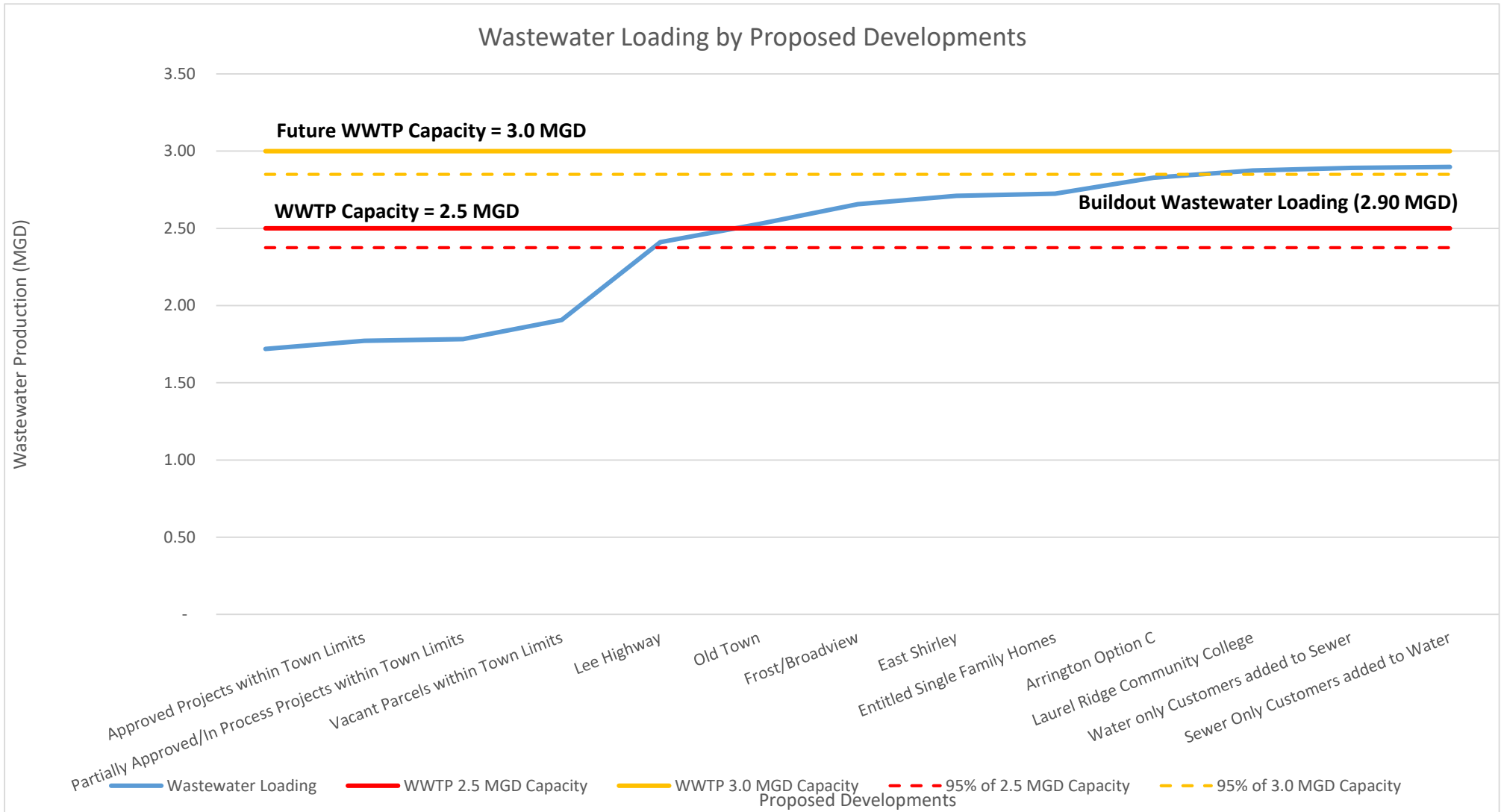


Figure 6.1: Wastewater Loading by Proposed Developments

Although the upsized WWTP will accommodate loadings from the proposed developments, additional WWTP capacity enhancements may be necessary as loadings approach 2.90 MGD. The Virginia Department of Environmental Quality (DEQ) recognizes flow loadings approaching 95% of the design capacity (or 2.85 MGD) as a trigger point for planning WWTP capacity management strategies and improvements.

An initial time step progression is shown in Figure 6.2. This linear growth time-step progression assumes that all development is completed by 2040, the target year for the current Warrenton Comprehensive Plan. The annual wastewater loading demand growth rate is the same as for water demand, 7%. With buildout by 2040, the current 2.5 MGD WWTP capacity is exceeded by 2034. With the proposed increased WWTP capacity, 95% of treatment capacity is reached in 2039.

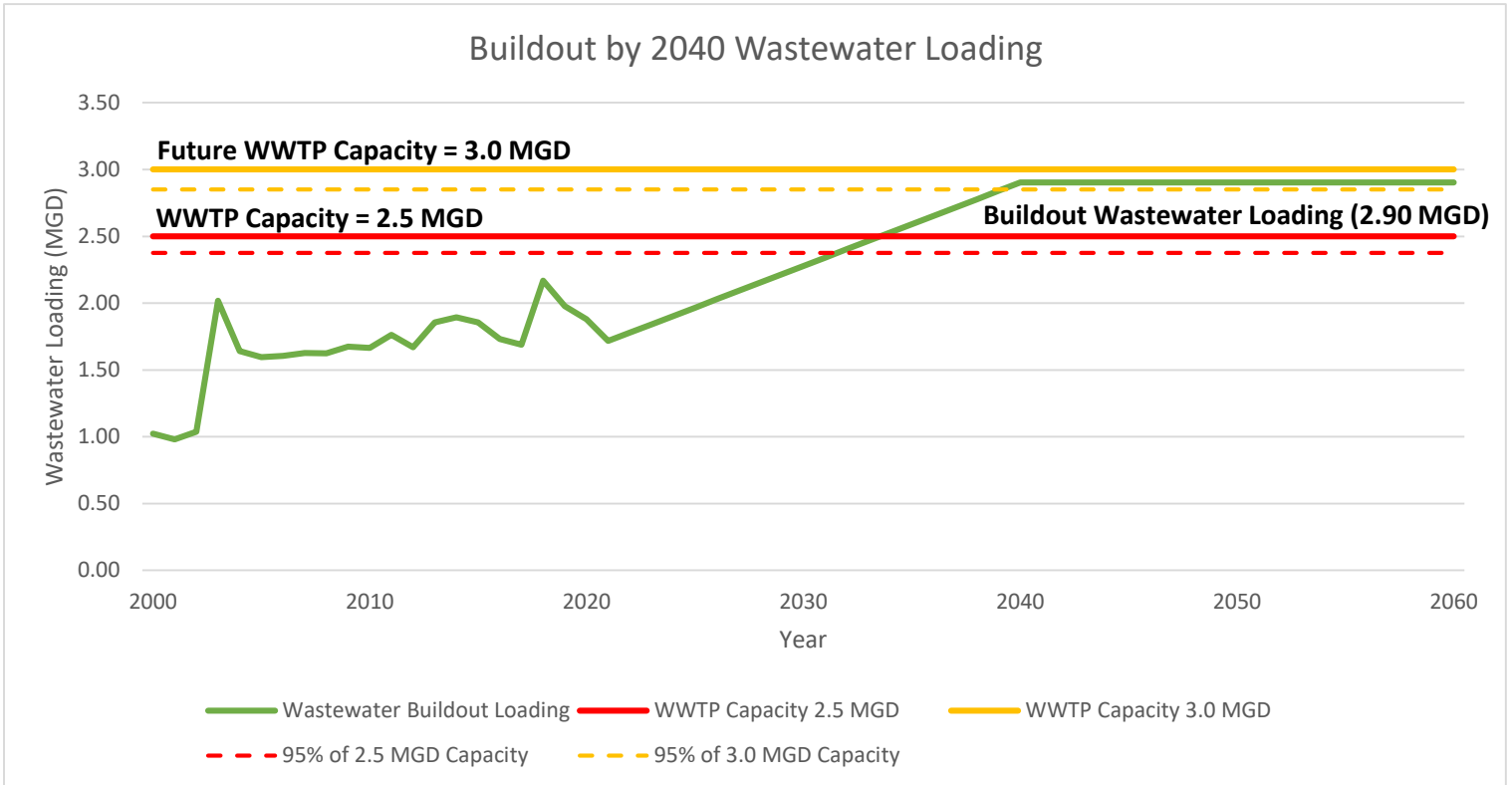


Figure 6.2: Buildout by 2040 Wastewater Loading

Similar to the water demand projection graphs, 6.3 depicts wastewater loadings at a 1% annual growth rate.

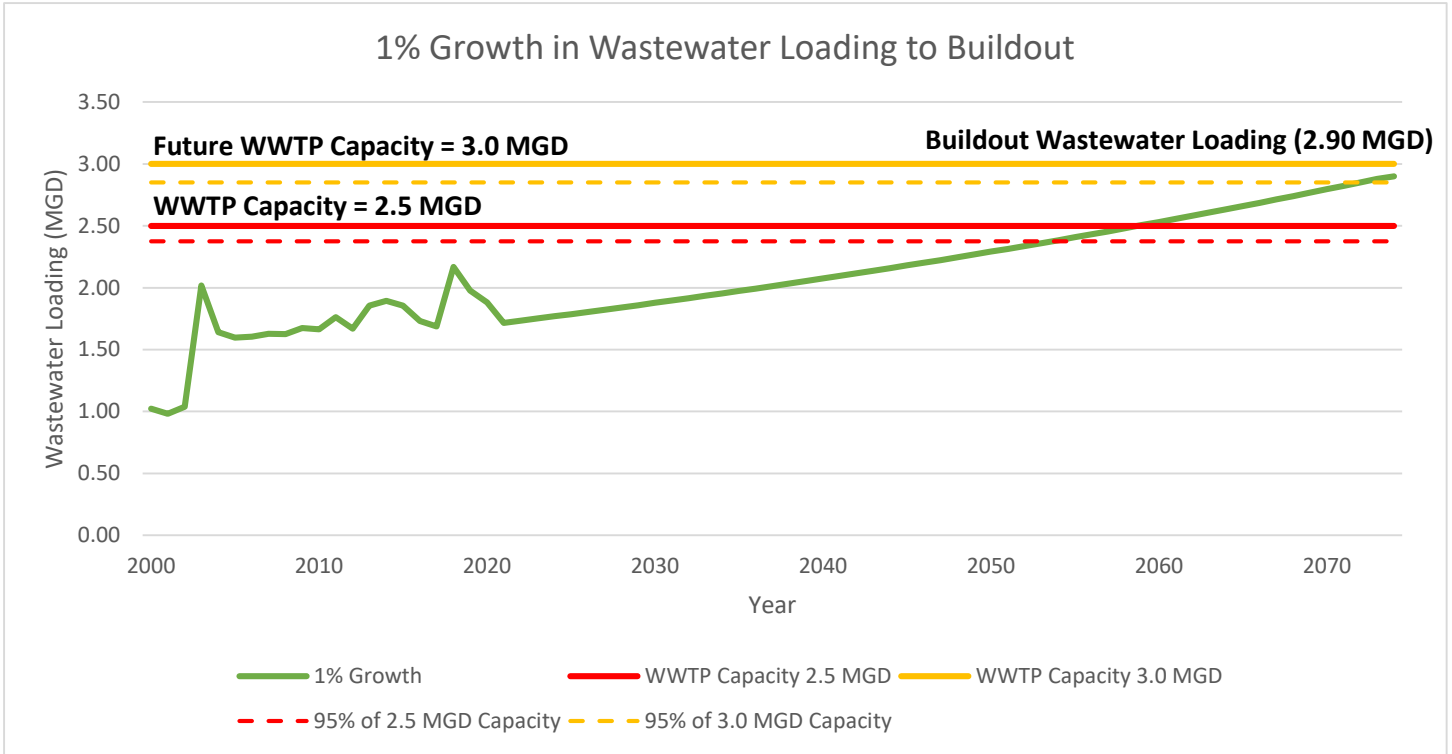


Figure 6.3: 1% Growth in Wastewater Loading to Buildout

In this case, wastewater loading would not reach the 3 MGD 95% threshold until 2071.

Figure 6.4 depicts a more robust 2.5% annual rate in wastewater loadings.

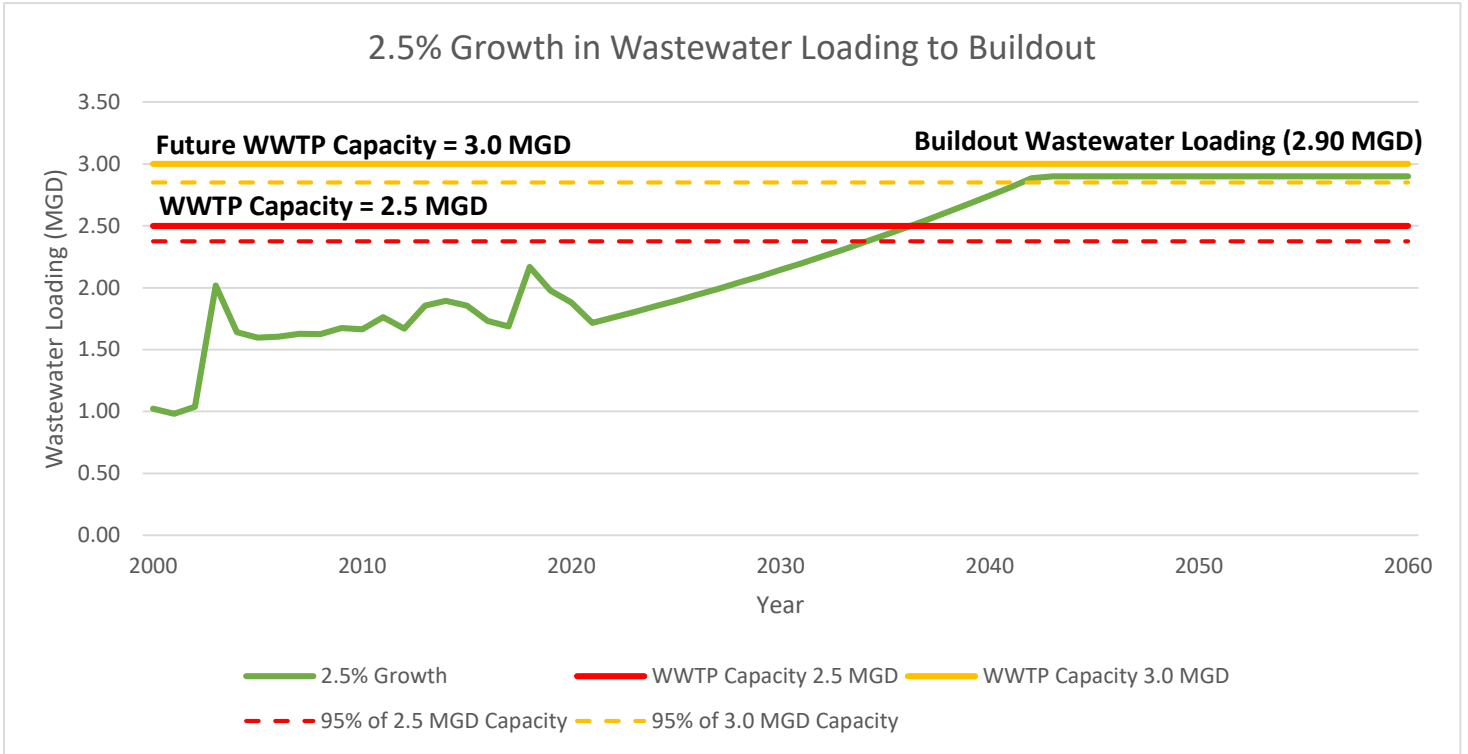


Figure 6.4: 2.5% Growth in Wastewater Loading to Buildout

In this scenario, wastewater loadings would not reach the 3 MGD 95% threshold until 2043.

7. Turkey Run and Taylor Run Wastewater Pumping Station Capacities

The Town of Warrenton owns and operates 11 wastewater lift stations (pump stations) that help convey wastewater generated in the outer reaches of the wastewater service area into the central part of the wastewater collection system for conveyance by gravity into the wastewater treatment plant. WRA analyzed the impact of additional wastewater loading into the Turkey Run Pump Station (PS #9) and the Taylor Run Pump Station (PS #6).

In the future wastewater, flows from Laurel Ridge Community College will flow into the Turkey Run PS. Flows from the Turkey Run PS are then discharged to the Taylor Run PS. Taylor Run will also receive flows from the new Arrington development.

Laurel Ridge Community College is estimated to produce approximately 0.05 MGD of wastewater. Assuming a peak flow value of 4, the wastewater volume would increase to 0.2 MGD, or 139 gallons per minute (GPM). The proposed Arrington development is estimated to produce approximately 0.1 MGD of wastewater. A peak volume for this flow is 0.4 MGD, or 278 GPM.

WRA's analysis of the Turkey Run PS indicates that additional flows from Laurel Ridge Community College can be discharged into the Turkey Run PS using the existing pumps, wetwell and pump station appurtenances.

The Taylor Run PS will receive flows coming from the Turkey Run Pump Station and has a capacity of 600 GPM. Current wastewater flows into the Taylor Run PS are estimated to be 704 GPM. A pumping rate of 704 GPM is within the range of the new pumps installed in 2011. Adding peak flows from Laurel Ridge Community College and the proposed Arrington development would increase flows to the Taylor Run PS by 417 GPM (approximately 1121 GPM). This increase in flow would require larger horsepower motors and a different impeller if the same pumps are used. Taylor Run PS also currently experiences a large number of pump starts each day. This condition indicates that the wetwell may be too small for existing flows, even though the pumps are able to manage these flows.

The Turkey Run PS appears to be able to receive the future flows from Laurel Ridge Community College while the Taylor Run PS would probably need substantial modifications or replacement to serve the Arrington Development and the Turkey Run flows.

WRA recommends that a more detailed analysis be conducted for both stations before additional flows are discharged into them.

Appendix 1

Water & Wastewater Projection Allocation Summary

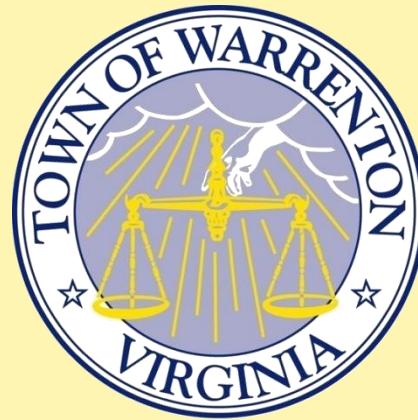
Totalized Units Based on Project Development		IN-TOWN								OUT OF TOWN				TOTALS
		Approved Projects within Town Limits	Partially Approved/In Process Projects within Town Limits	Vacant Parcels within Town Limits	Lee Highway	Old Town	Frost/Broadview	East Shirley	Entitled Single Family Homes	Arrington Option C	Laurel Ridge Community College	Water only Customers added to Sewer	Sewer only Customers added to Water	
Residential	Single-Family (units)	190	36	331	-	206	235	117	50	314	-	63	23	1,479
	Multi-Family (units)	-	-	-	-	-	120	-	-	-	-	-	-	120
	Apartment (units)	-	-	-	1,336	84	-	-	-	-	-	-	-	1,420
	Townhouse (units)	-	-	34	108	7	-	84	-	-	63	-	-	296
	Senior Home (units)	-	-	-	-	-	60	-	-	-	-	-	-	60
	Hotel (rooms)	-	-	-	115	115	115	-	-	-	15	-	-	-
Commercial	General (SF)	-	12,550	60,161	98,000	10,000	20,000	-	-	-	-	-	-	200,711
	Entertainment (SF)	-	-	-	100,000	145,000	-	-	-	-	-	-	-	245,000
	Academic (SF)	-	-	-	220,000	-	-	-	-	-	-	-	-	220,000
	Office/Employment (SF)	-	-	-	40,000	-	-	-	-	-	-	-	-	40,000
	Medical Offices (SF)	-	-	-	-	-	50,000	-	-	-	-	-	-	50,000
Industrial	General (sq ft)	-	-	759,500	-	-	-	-	-	-	-	-	-	759,500
Community College	Campus (units)	-	-	-	-	-	-	-	-	-	3,474	-	-	3,474

Additional Water Demand Based on Projected Development

Land Use Type		IN-TOWN							OUT OF TOWN				TOTAL (gal/day)		
		Approved Projects within Town Limits	Partially Approved/In Process Projects within Town Limits	Vacant Parcels within Town Limits	Lee Highway	Old Town	Frost/Broadview	East Shirley	Entitled Single Family Homes	Arrington Option C	Laurel Ridge Community College	Water only Customers added to Sewer		Sewer Only Customers added to Water	
Residential	Single-Family (units)	57,000	10,800	99,300	-	61,800	70,500	35,100	15,000	94,200	-	18,900	6,900	469,500	
	Multi-Family (units)	-	-	-	-	-	36,000	-	-	-	-	-	-	36,000	
	Apartment (units)	-	-	-	400,800	25,200	-	-	-	-	-	-	-	426,000	
	Townhouse (units)	-	-	10,200	32,400	2,100	-	25,200	-	18,900	-	-	-	88,800	
	Senior Home (units)	-	-	-	-	-	6,000	-	-	-	-	-	-	6,000	
	Hotel (rooms)	-	-	-	11,500	11,500	11,500	-	-	1,500	-	-	-	36,000	
Commercial	General (SF)	-	2,510	12,032	19,600	2,000	4,000	-	-	-	-	-	-	40,142	
	Entertainment (SF)	-	-	-	20,000	29,000	-	-	-	-	-	-	-	49,000	
	Academic (SF)	-	-	-	63,800	-	-	-	-	-	-	-	-	63,800	
	Office/Employment (SF)	-	-	-	11,600	-	-	-	-	-	-	-	-	11,600	
	Medical Offices (SF)	-	-	-	-	-	14,500	-	-	-	-	-	-	14,500	
Industrial	General (sq ft)	-	-	15,190	-	-	-	-	-	-	-	-	-	15,190	
Community College	Students (units)	-	-	-	-	-	-	-	-	-	52,110	-	-	52,110	
Sub-Total Water (MGD)		0.06	0.01	0.14	0.56	0.13	0.14	0.06	0.02	0.11	0.05	0.02	0.01	1.31	Average Water Demand (MGD)
Sub-Total Wastewater (MGD)		0.05	0.01	0.12	0.50	0.12	0.13	0.05	0.01	0.10	0.05	0.02	0.01	1.18	WRA Calculated Wastewater Demand (MGD)

Total Water and Wastewater Demand Including Projected and Existing		IN-TOWN								OUT OF TOWN				Totalized Projected Water Demand (MGD)	Totalized Projected Wastewater Demand (MGD)
		Approved Projects within Town Limits	Partially Approved/In Process Projects within Town Limits	Vacant Parcels within Town Limits	Lee Highway	Old Town	Frost/Broadview	East Shirley	Entitled Single Family Homes	Arrington Option C	Laurel Ridge Community College	Water only Customers added to Sewer	Sewer Only Customers added to Water		
Existing 2021 + New Project Water Demand (MGD)	1.11	1.17	1.18	1.32	1.88	2.01	2.15	2.21	2.23	2.34	2.39	2.41	2.42	2.42	
Existing 2021 + New Project Wastewater Demand (MGD)	1.72	1.77	1.78	1.91	2.41	2.53	2.66	2.71	2.72	2.83	2.87	2.89	2.90	2.90	



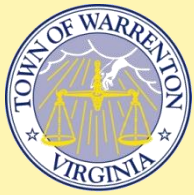


WATER & SEWER SYSTEM GROWTH AND SYSTEM CAPACITY EVALUATION

MAY 2015



WHITMAN, REQUARDT AND ASSOCIATES, LLP



WATER SEWER CAPACITY STUDY

Item a.

Purpose and Approach

Updates to Water Demands and Sewer Flows based on:

- ❖ Existing Billing and Treatment Plant Records.
- ❖ In-Town Proposed Development Plans (under review and approved)
- ❖ In-Town Potential Future Development and Redevelopment
- ❖ Out of Town Commitments
- ❖ Growth Projections and Buildout



WATER SYSTEM CURRENT STATUS

Item a.

(As of December 2014)

Customers/Accounts	4808
Annual Average Water Demand (2005-2009)	1.31 MGD
Reservoir Safe Yield	2.27 MGD
Wells Safe Yield	0.07 MGD
<u>Designated Reserve</u>	<u>-0.30 MGD</u>
Water Supply Safe Yield	2.04 MGD
Percent Of Supply In Use – Average Day	64%
Maximum Day Water Demand (Peaking Factor = 1.5)	1.96 MGD
WTP Production Capacity	3.0 MGD

Water demands based on Plant Finished Water Meter Data and Well Meters

Two existing wells are under evaluation for upgrade and incorporation (0.30MGD)

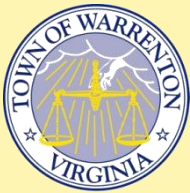


SEWER SYSTEM CURRENT STATUS

Item a.

(As of December 2014)

Customers/Accounts	4368
Annual Ave. Wastewater Flow (2007-2011)	1.67 MGD
Average Day Water Demand	1.31 MGD
Sewer Cust. 90% and Water to Sewer Flow 90%	1.06 MGD
<u>Inflow and Infiltration</u>	<u>1.05 MGD</u>
Planning Wastewater Flow	2.11 MGD
Treatment Capacity (95% of Permitted)	2.38 MGD
Percent Of Wastewater Capacity In Use	87%
Sewer WWTP Capacity	2.5 MGD



FUTURE DEMAND PROJECTIONS

Methodology and Assumptions

Item a.

Planning Values - Water

- 300 gpd per Residential Account (Based on existing demand & account review)
- 700 gpd / Acre for Commercial / Industrial Land

Planning Values - Sewer

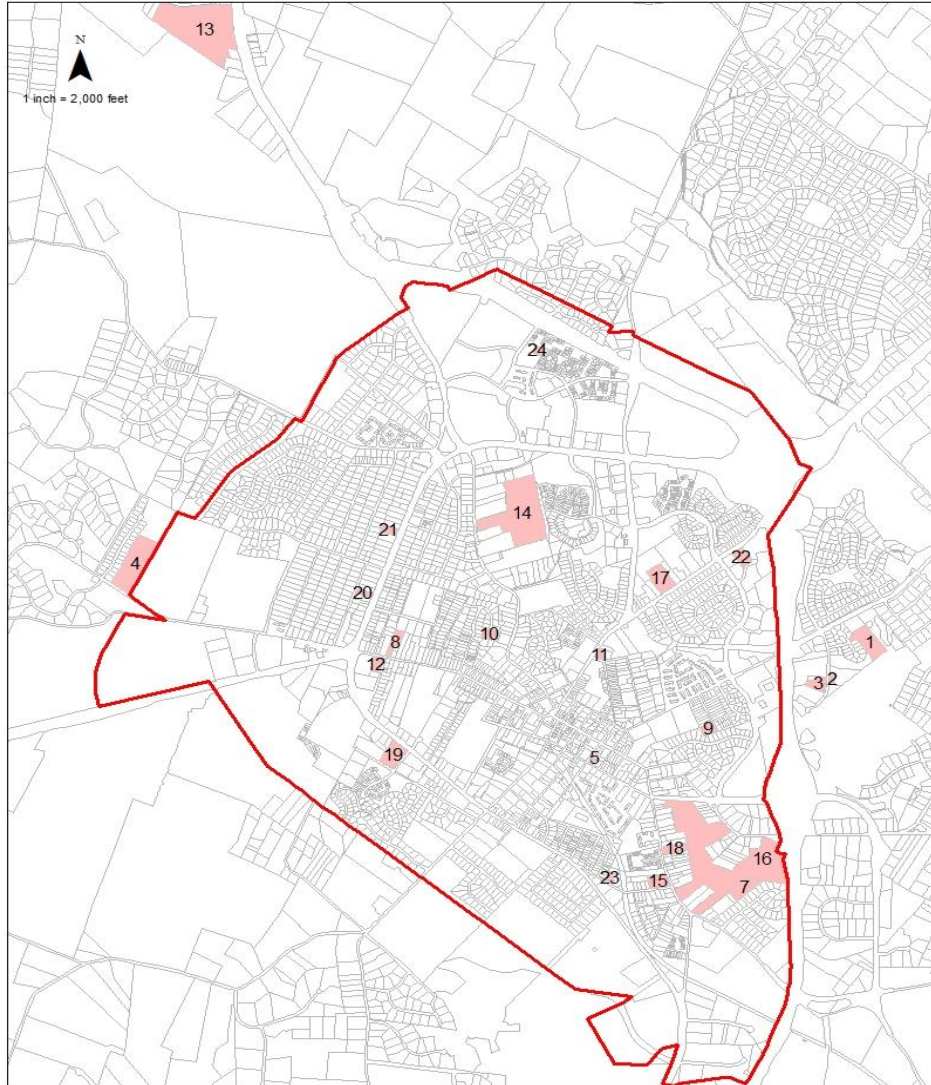
- 270* gpd per Residential Account
- 630* gpd / Acre for Commercial / Industrial Land
- *Flows Assumed to be 90% of water demands



CURRENT DEVELOPMENT INTOWN - SITE PLANS APPROVED OR UNDER REVIEW

Item a.

2015 Site Plans Approved or Under Review

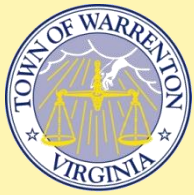


1	Millfield
2	Millfield
3	Millfield
4	Stonecrest
5	J. Tucker
7	MONROE EST II
8	PENNINGTON GROVE
9	Habitat
10	Brenda Ct
11	North Alex Pike
12	Middleburg Bank
13	Fletcherville
14	Winchester Chase
15	Madison Square
16	War Crossing
17	Harway
18	Falmouth Landing
19	Fau H Med Of Bld
20	Oak V Bnk lot
21	Advance A Parts
22	Lnwvr ph2 lot6
23	Nokesville Bldrs
24	War Manor additn

WATER • TOTAL PROJECTED DEMAND = 0.096 MGD

SEWER • TOTAL PROJECTED FLOW = 0.097 MGD

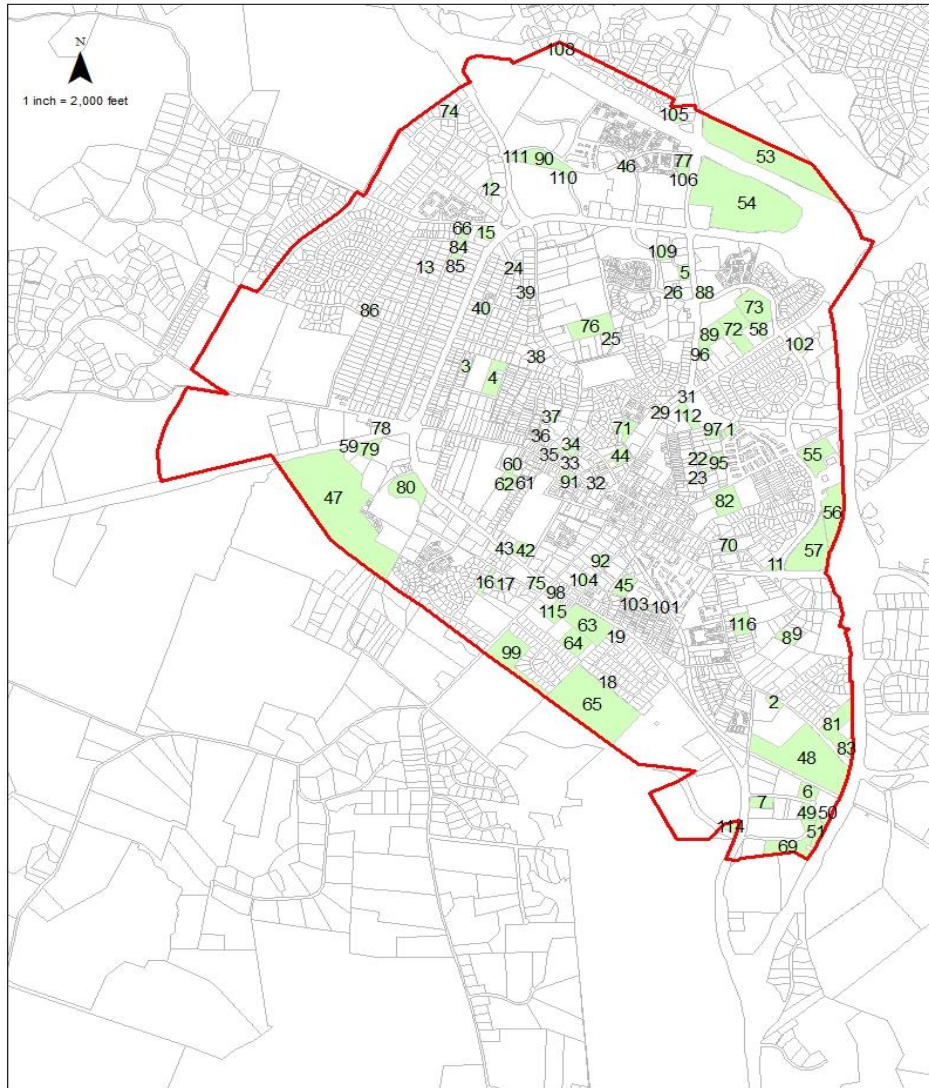




FUTURE DEVELOPMENT IN-TOWN UNDEVELOPED PROPERTY MAP

Item a.

2015 In-Town Undeveloped Properties



WATER

- 823 Residential Lots @ 300 gpd/lot
- 168 Acres Comm./Ind. @ 700 gpd/Ac
- 363,600 gpd Avg. Daily Water Demand
- 0.364 MGD Avg. Daily Water Demand

SEWER

- 823 Residential Lots @ 270 gpd/lot
- 168 Acres Comm./Ind. @ 630 gpd/Ac
- 327,200 gpd Avg. Daily Flow
- 0.327 MGD Avg. Daily Flow

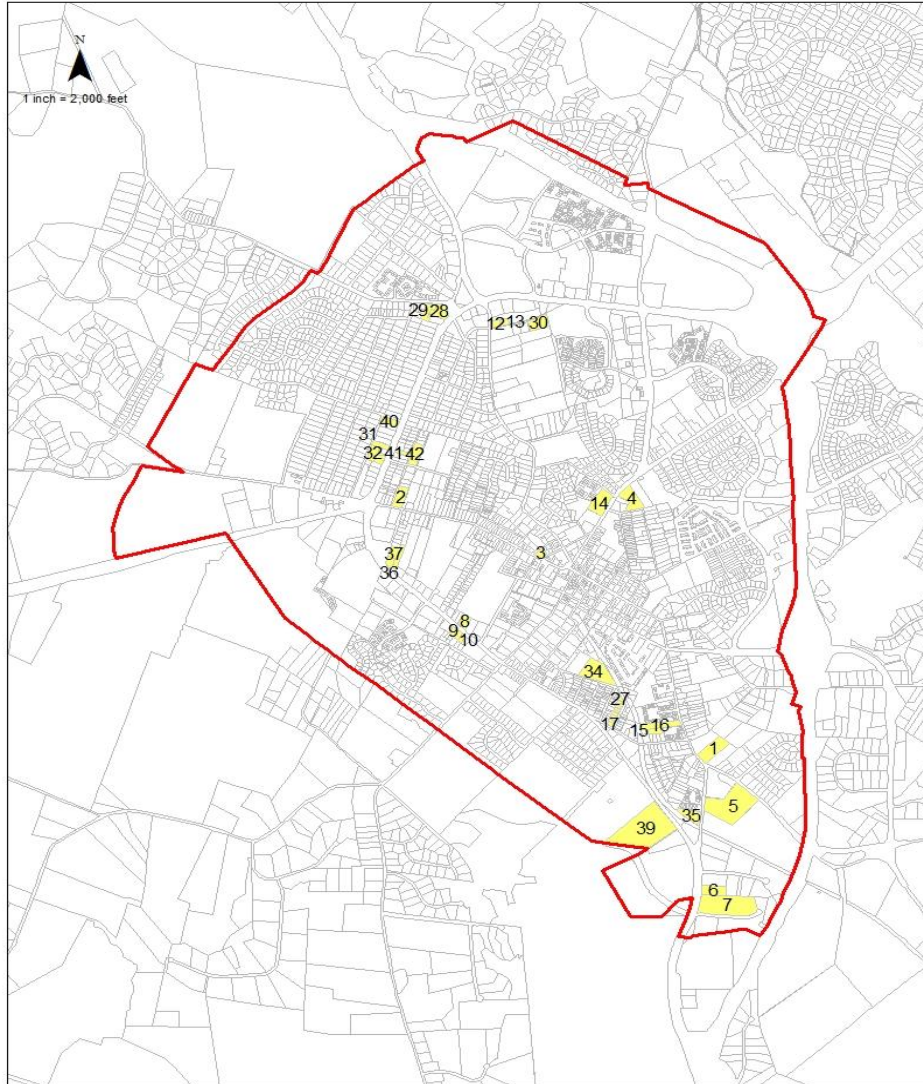




FUTURE DEVELOPMENT INTOWN - POTENTIAL REDEVELOPMENT PROPERTY MAP

Item a.

2015 Redevelopment Potential

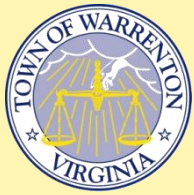


WATER

- 66 Residential Lots @ 300 gpd/lot
- 38.5 Acres Comm./Ind. @ 700 gpd/Ac
- 46,800 gpd Avg. Daily Water Demand
- 0.047 MGD Avg. Daily Water Demand

SEWER

- 66 Residential Lots @ 270 gpd/lot
- 38.5 Acres Comm./Ind. @ 630 gpd/Ac
- 42,100 gpd Avg. Daily Flow
- 0.049MGD Avg. Daily Flow



FUTURE DEVELOPMENT OUT OF TOWN WATER COMMITMENT MAP

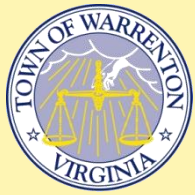
Item a.

2015 Out of Town Potential Water Customers



WATER

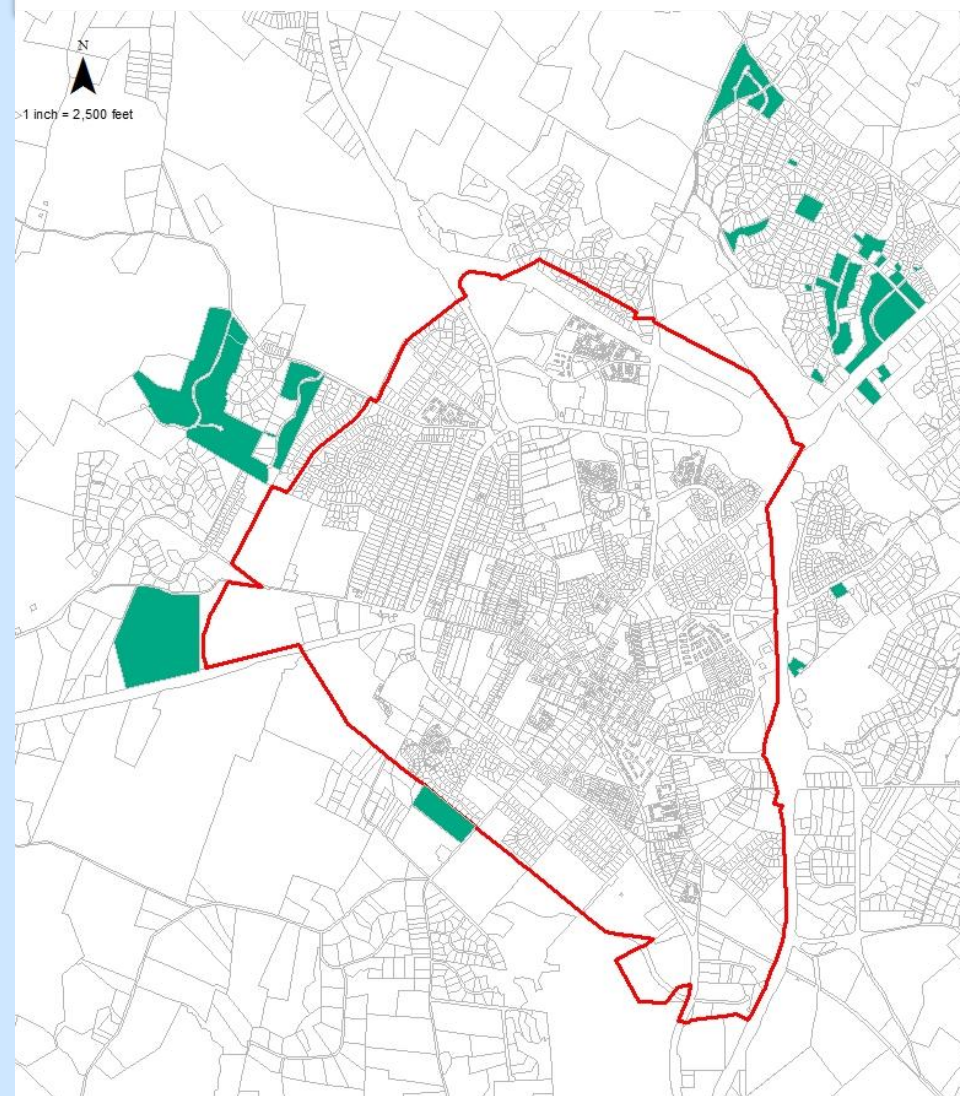
- 196 Residential Lots @ 300 gpd/lot
- 4.85 Acres Comm./Ind. @ 700 gpd/Ac.
- 62,200 gpd Avg. Daily Water Demand
- 0.062 MGD Avg. Daily Water Demand



FUTURE DEVELOPMENT OUT OF TOWN SEWER COMMITMENT MAP

Item a.

2015 Out of Town Potential Sewer Customers



SEWER

- 245 Residential Lots @ 270 gpd/lot
- 4.85 Acres Comm./Ind. @ 630 gpd/Ac.
- 69,300 gpd Avg. Daily Flow
- 0.069 MGD Avg. Daily Flow



PROJECTED BUILDOUT WATER SYSTEM DEMANDS IN TOWN & EXISTING COUNTY COMMITMENTS

Item a.

Water System Summary

2015 Calculations

Currently Proposed Development	96,000 gpd
In Town - Vacant Lot Development	363,000 gpd
In Town - Redevelopment Potential	46,800 gpd
County - Unserved Lots Within Commitment Area	62,200 gpd

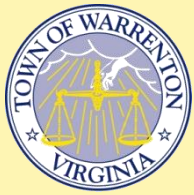
Buildout Estimated Additional Water Demand 568,600 gpd

Current Average Day Demand 1,309,432 gpd

Total Buildout Water Demand gpd 1,878,032

Available Safe Yield (Average Day from Sources) = 2,046,667 gpd

Buildout Demand is at 92% of the Available Safe Yield



PROJECTED BUILDOUT SEWER SYSTEM FLOWS IN TOWN & EXISTING COUNTY COMMITMENTS

Item a.

Sewer System Summary

	2015 Calculations
Currently Proposed Development	97,470 gpd
In Town - Vacant Lot Development	327,200 gpd
In Town - Redevelopment Potential	42,100 gpd
County - Unserviced Lots Within Commitment Area	69,300 gpd

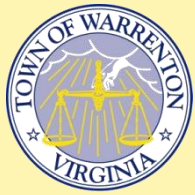
Buildout Estimated Additional Sewer Flow 536,070 gpd

Current Average Day Flow 2,110,640 gpd

Total Buildout Sewer Flow 2,646,810 gpd

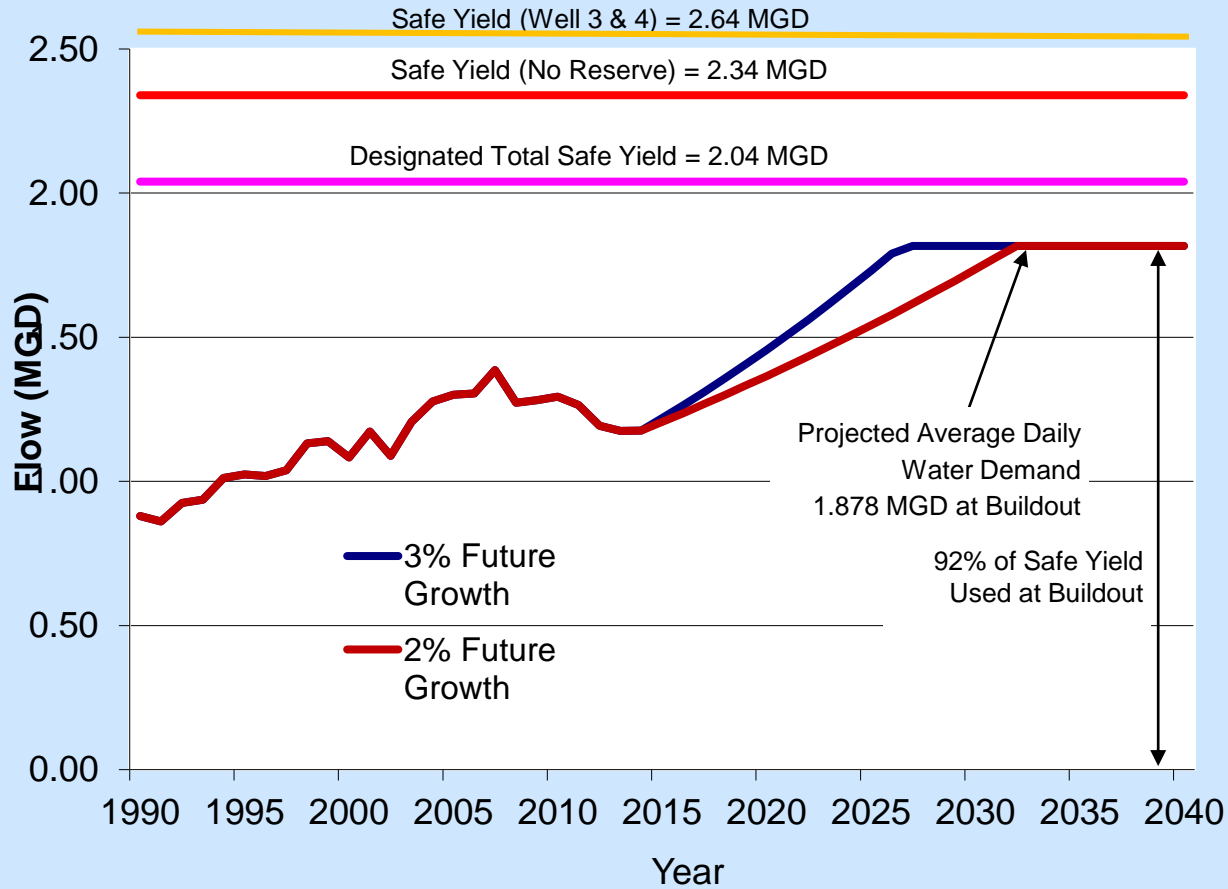
WWTP Capacity (95% ADF) = 2,375,000 gpd
Buildout Sewer Flow is at 106% of WWTP Capacity.





PROJECTED BUILDOUT WATER SYSTEM DEMANDS

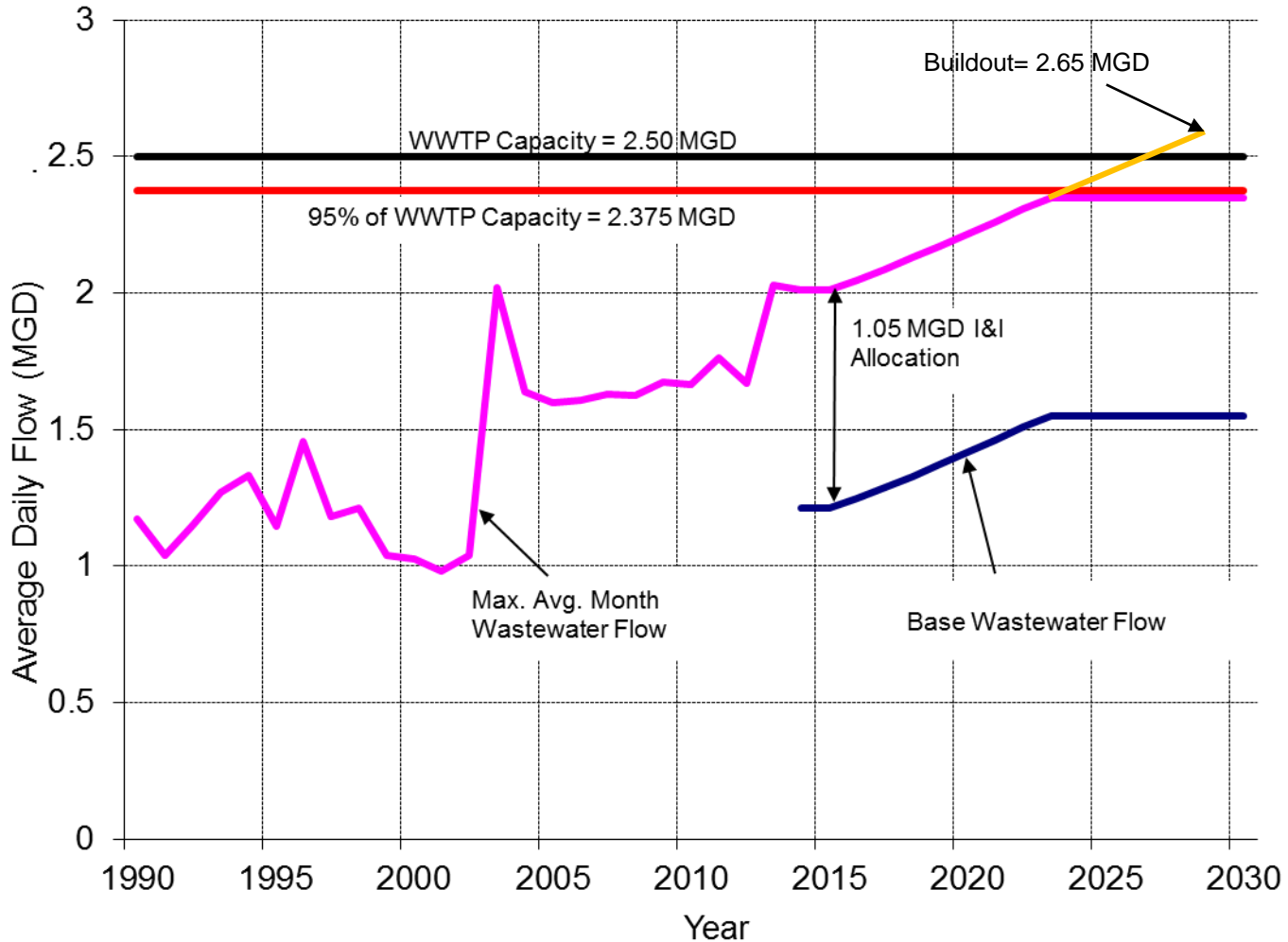
Item a.

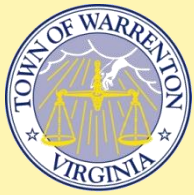




PROJECTED BUILDOUT SEWER FLOWS

Item a.





PROJECTION SUMMARY

Item a.

WATER

- Buildout will occur between 2028 (3.0% growth) and 2033 (2.0% growth)
- At Buildout demand is 92% of safe yield (with current assets)

SEWER

- Buildout will occur in 2029 (3.0% growth)
- Current WWTP Capacity (95%) will occur in 2022-2024

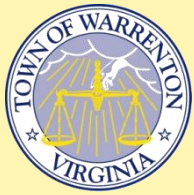


ADDITIONAL CONSIDERATIONS

Item a.

Water - Additional Considerations

- Option to Utilize the Drought Contingency Reserve (80% at Buildout)
- Reactivation of Well #3 and Well #4 (71% at Buildout)

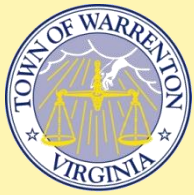


WATER –RECOMMENDATIONS

Item a.

Short Term

- Reactivate Wells #3 and #4 (0.3 MGD)
- Consider Removal of Drought Contingency Reserve, using 80% Commitment of Assets as Objective.

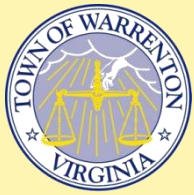


SEWER –RECOMMENDATIONS

Item a.

Short Term

- Reduce I&I (Set a goal of reduction of 0.3 MGD in 3 years). Study already underway.
- Investigate the Potential and Objectives to Wastewater Treatment Plant Capacity Expansion

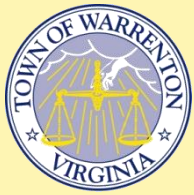


GENERAL RECOMMENDATIONS

Item a.

Long Term

- Unprogrammed New Development: Outside Commitments will increase Buildout Demands and Flows and will require Capacity Improvements.
- Town should develop a Contingency Plan for future Rezoning, changes to Water and Sewer patterns or other system changes.



QUESTIONS

Item a.



Water and Sewer System Growth and Capacity Evaluation

Prepared for:



Town of Warrenton, Virginia

Final Report

April, 2015

WR&A Work Order No:
18535-000

Prepared by:
Whitman, Requardt & Associates, LLP
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3701 Pender Drive, Suite 450, Fairfax, Virginia 22030 www.wrallp.com Phone: 703.293.9717 Fax: 703.273.6773

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1. Executive Summary

Whitman, Requardt and Associates, LLP (WRA) was tasked to update the Growth and Capacity Evaluation Report for the Town's water and sewer systems. Updated residential and commercial account data along with meter flow data from the WTP and WWTP was analyzed. The data was used to estimate the current and buildout water demands and sewer flows for areas where the Town has prior service commitments.

The current water system capacity is 2.046 MGD, which is based on a safe yield of 2.346 MGD (from the Warrenton and Airlie reservoirs, Wells #5 and #6), and an additional drought contingency reserve of 0.30 MGD. The buildout average water demand is 1.88 MGD. The current sewer system capacity of 2.375 MGD based on 95% average daily flow capacity of the WWTP which is permitted to treat 2.5 MGD. The buildout sewer flow is 2.65 MGD which exceeds the capacity of the existing WWTP. The current inflow and infiltration (I&I) in the system is estimated at 1.05 MGD. Assuming a 3% growth in both water demands and sewer flows, the buildout for water will reach 92% of the safe yield and drought contingency reserve in year 2028. The buildout for sewer will reach 95% of the average daily flow capacity at WWTP in year 2024. The analysis and recommendations from the report are summarized below:

- The buildout Average Water demand with current assets is at 92% of the allowable water demand capacity based on the safe yield and drought contingency reserve of 2.04 MGD. This percentage can be lowered to 80% if the drought contingency reserve limit is removed. In addition, if Well #3 and #4 are brought online, this can be lowered even further to 71%.
- The Town needs to develop a policy to meet additional water commitments by revisiting the drought contingency reserve. The recommendations presented in the 2010 strategic water supply plan of reactivating Well #3 and #4 as a treated source or reservoir recharge, and evaluating the potential and practicality of adding capacity to the Warrenton reservoir should also be investigated.
- The buildout average sewer flows will reach 106% of the WWTP capacity. DEQ requires an upgrade plan when flows exceed 95% of the rated capacity, 2.375 MGD, for three consecutive months.
- To create flow capacity in the sewer system for the current customers, inflow and infiltration should be continuously investigated and corrected. Permanent flow meters should be installed at key locations in the system. The Town should set a goal to reduce the current I&I in 2-3 years and reduce it by 0.3 MGD. The Town has been conducting a flow monitoring study for the past 8 months. The study needs to be continued and expanded.
- A comprehensive evaluation of the WWTP upgrade is recommended to investigate opportunities to create additional capacity as a contingency if I&I reduction goals cannot be met and possible accommodation of additional sewer commitments.
- New developments without prior water and sewer commitments will increase buildout demands and flows and require system capacity improvements.
- The Town should develop contingency plans for future re-zonings, changes to water and sewer usage patterns, regulatory changes or other system changes.

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2. Purpose

The Town of Warrenton (Town) requested Whitman, Requardt and Associates, LLP (WR&A) to review and update the Growth and Capacity Evaluation for the Town's water and sewer systems. Prior evaluations were completed in 2002, 2006 and 2009 by WR&A, and this report follows the same general outline. The scope of this evaluation includes:

- Update existing residential and commercial demands and flows based on billing records and treatment plant records for water and sewer.
- Identify and update proposed development plans in which the Town has committed to providing water and sewer services.
- Update areas within Town with undeveloped lots and project water and wastewater flows for these areas.
- Confirm the estimate of potential water and sewer service commitments in the surrounding County.
- Develop capacity projections based on existing and future use for water and sewer.

Estimates of potential water and sewer demand are based on the development of vacant lots according to their current zoning, typically determined with no consideration of potential topographic or geographic restrictions (steep slopes, flood plains, etc...). The exception is a limited number of parcels with existing staff knowledge of preliminary site analysis.

3. Existing Water Demands, Sewer Flows, I&I and Planning Flows

The Town of Warrenton serves an estimated 4,808 water accounts as of December 2014. The highest consecutive 5-year average daily water demand is 1.31 MGD based on the production records from 2005-2009. A maximum day water demand peaking factor of 1.5 was determined from water records, which corresponds to a peak day of 1.96 MGD. The 5-year average daily water demand is slightly lower than past reports, which is due to a combination of slow economy, water conservation, water saving fixtures and some accounts that have gone dormant. A summary of the average day demands and growth from recent years is provided in **Table 1**.

Table 1
Water System Growth - 2004 through 2014

Year	Avg. Daily Production (MGD)	Annual Growth	No. of Customers	Customer Annual Growth
2004	1.28	5.87%	4,178	5.67%
2005	1.30	1.84%	4,455	6.63%
2006	1.31	0.35%	4,577	2.74%
2007	1.39	6.22%	4,652	1.64%
2008	1.27	-8.18%	4,686	0.73%
2009	1.28	0.66%	4,726	0.85%
2010	1.29	0.95%	4,724	-0.04%
2011	1.27	-2.22%	4,747	0.49%
2012	1.19	-5.73%	4,776	0.61%
2013	1.17	-1.47%	4,803	0.57%
2014	1.17	0.08	4808	0.10%
Average	1.31 (2005-2009)			3.44%

The Town serves an estimated 4,368 sewer accounts as of December 2014. The consecutive 5-year average daily flow is 1.67 MGD based on flow records from 2007-2011. Flow records for the past three years were not included in the analysis due to unusual amount of I&I experienced by the sewer system due to intense wet weather. I&I is currently being investigated by the Town. Table 2 lists the flow records at the WWTP.

Table 2
Wastewater System Growth - 2004 through 2014

Year	Avg. Daily Flow (MGD)	Flow Annual Growth	Annual Rainfall (Inches)	No. of Customers	Customer Annual Growth
2004	1.64	-18.76%	39	3,723	6.55%
2005	1.60	-2.65%	45	4,009	7.68%
2006	1.67	4.83%	46	4,127	2.94%
2007	1.63	-2.78%	27	4,202	1.82%
2008	1.62	-0.21%	44	4,233	0.74%
2009	1.67	3.06%	49	4,253	0.47%
2010	1.66	-0.56%	39	4,280	0.63%
2011	1.76	5.86%	46	4,303	0.54%
2012	1.67	-5.28%	36	4,332	0.67%
2013	2.03	21.66%	52	4,366	0.78%
2014	2.01	-0.99%	51.6	4368	0.05%
Average	1.67 (2007-2011)				2.91%

For planning purposes, inflow and infiltration (I&I) estimation is very essential. The yearly average of wastewater flow cannot be used. In order to estimate I&I the wastewater/water differentials for three consecutive months have to be analyzed.

The wastewater flow includes both customer sewage (base flow) and I&I. The methodology, which has been utilized, calculates the sewer base flow from the percentage of sewer customers and the flow returning to the wastewater. Approximately 90 percent of water customers are also sewer system customers, and approximately 90 percent of the water delivered returns to the sewer system from each location. The planning flow is then calculated as the base flow plus an allowance for I&I of 1.05 MGD. These calculations are presented in **Appendix G**. I&I allowance was calculated in 2011 based on flow records.

Based on the Average Water Demand, the calculated Average Daily Base sewage base flow is therefore 1.06 MGD. These calculations are presented in **Appendix G**. Using the inflow/infiltration (I/I) flow of 1.05 MGD the current planning average monthly sewage flow is 2.11 MGD.

Planning Water Demand	1.31 MGD
Sewer Customers %	90%
Water to Sewer %	90%
Base Flow	1.06 MGD
I&I	1.05 MGD
Planning Wastewater Flow	2.11 MGD

4. Existing System Capacity

The Town's water system permit issued by VDH includes a review of treatment capacity, storage and source of supply capacity. The Town's limiting long range issue is source of supply. The Town's water supplies include two surface water impoundments, Warrenton and Airlie Reservoirs, which have a combined safe yield of 2.27 MGD as determined in 1992 by the State Water Control Board [now the Department of Environmental Quality (DEQ)]. Two groundwater wells #5 and #6 provide an additional 0.076 MGD, which do not require filtration at the WTP for a subtotal of 2.346 MGD. Two additional groundwater wells #3 and #4 are currently not operational, but the Town is in the process of reactivation. The Town of Warrenton has designated 0.30 MGD of the safe yield for drought reserve bringing the total available safe yield to 2.046 MGD.

The Town's water plant has a rated treatment capacity of 3.0 MGD but the source is limited to 2.046 MGD due to safe yield and drought reserve requirements. VDH requires the Owner to develop contract documents when the waterworks reaches its rated capacity of 80% for three consecutive months. The Town's wastewater treatment plant has a permitted capacity of 2.5 MGD. DEQ requires an upgrade plan when wastewater flows exceed 95% of the rated capacity, 2.375 MGD, for three consecutive months.

Planning Limits for the Warrenton System

Water Demand Capacity	2.046 MGD
Wastewater Flow Capacity	2.375 MGD

5. Projected Water & Sewer System Demands

The future demands for water and sewer were projected based upon current development plans and potential development within the area served by the Town. The potential residential development was based on existing zoning and densities. Unit water demands were applied to each lot at the rate of 300 gpd per equivalent residential connection (ERC) used for residential demands and 700 gpd per acre used for commercial, industrial and public/semi-public properties. Base wastewater flows were estimated at 90% of these water demand amounts, yielding 270 gpd per ERC and 630 gpd per acre commercial properties. These unit flows are consistent with prior projections.

Unit Flow Demands

Water Residential	300 gpd/ERC
Water Commercial	700 gpd/Acre
Wastewater Residential	270 gpd/ERC
Wastewater Commercial	630 gpd/Acre

The potential development in the committed water and sewer service areas were classified in to two main categories, In-Town Properties and Out of Town Commitment Properties. The In-Town section was further broken into two subcategories, Undeveloped Lots and Potential Redevelopment Lots. The following figures list the future demands for each category of development. The corresponding appendices include the data and the demand/flow calculations for the individual properties shown on each figure.

Figure 1 - Properties that are either under construction, have an approved site plan, or are currently submitted and are under review.

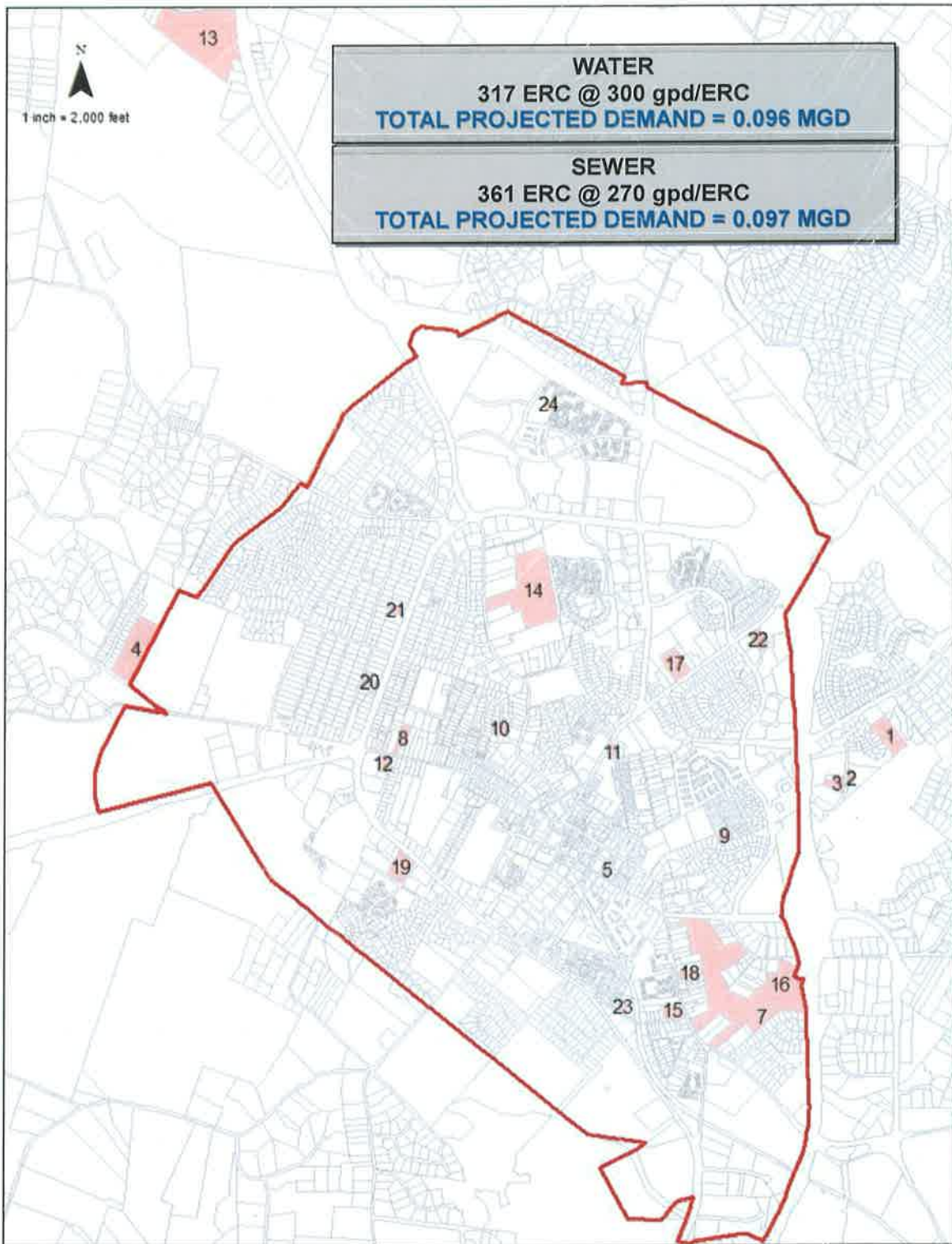
Figure 2 - In-Town Undeveloped Properties.

Figure 3 - Potential Redevelopment Properties within the Town

Figure 4 - Out of Town Water Commitment Properties

Figure 5 - Out of Town Sewer Commitment Properties

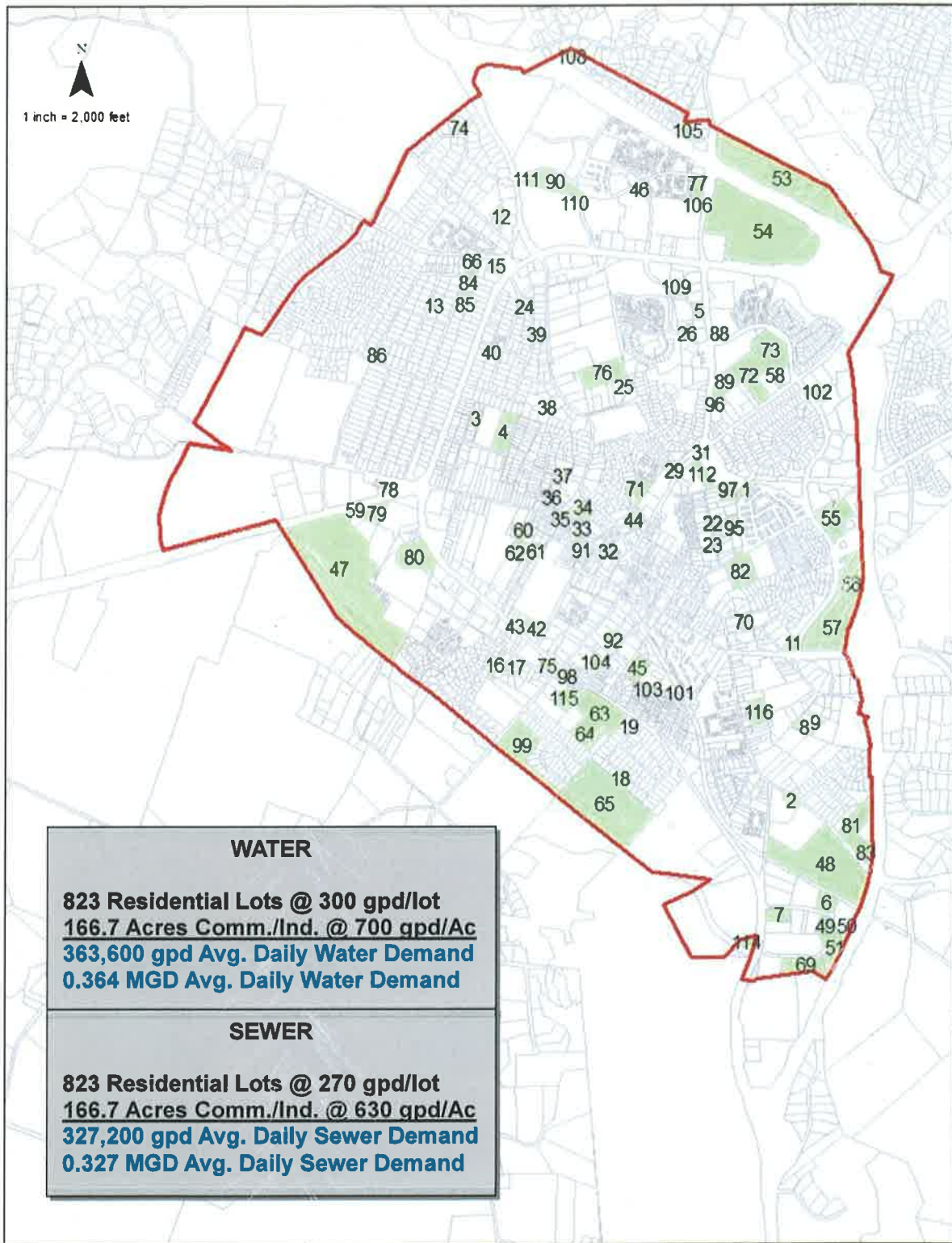
Figure 1
2015 Site Plans Approved or Under Review



3701 Pender Drive, Suite 450, Fairfax, Virginia 22030 www.wrallp.com Phone: 703.293.9717 Fax: 703.273.6773

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Blacksburg, VA • Fairfax, VA • Fredericksburg, VA • Lynchburg, VA • Newport News, VA • Richmond, VA • Virginia Beach, VA

Figure 2
2015 In-Town Undeveloped Properties



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Baltimore, MD • Georgetown, DE • Wilmington, DE • Ellsworth, ME • Philadelphia, PA • Pittsburgh, PA • York, PA • Houston, TX
 Blacksburg, VA • Fairfax, VA • Fredericksburg, VA • Lynchburg, VA • Newport News, VA • Richmond, VA • Virginia Beach, VA

Figure 3
2015 Redevelopment Potential

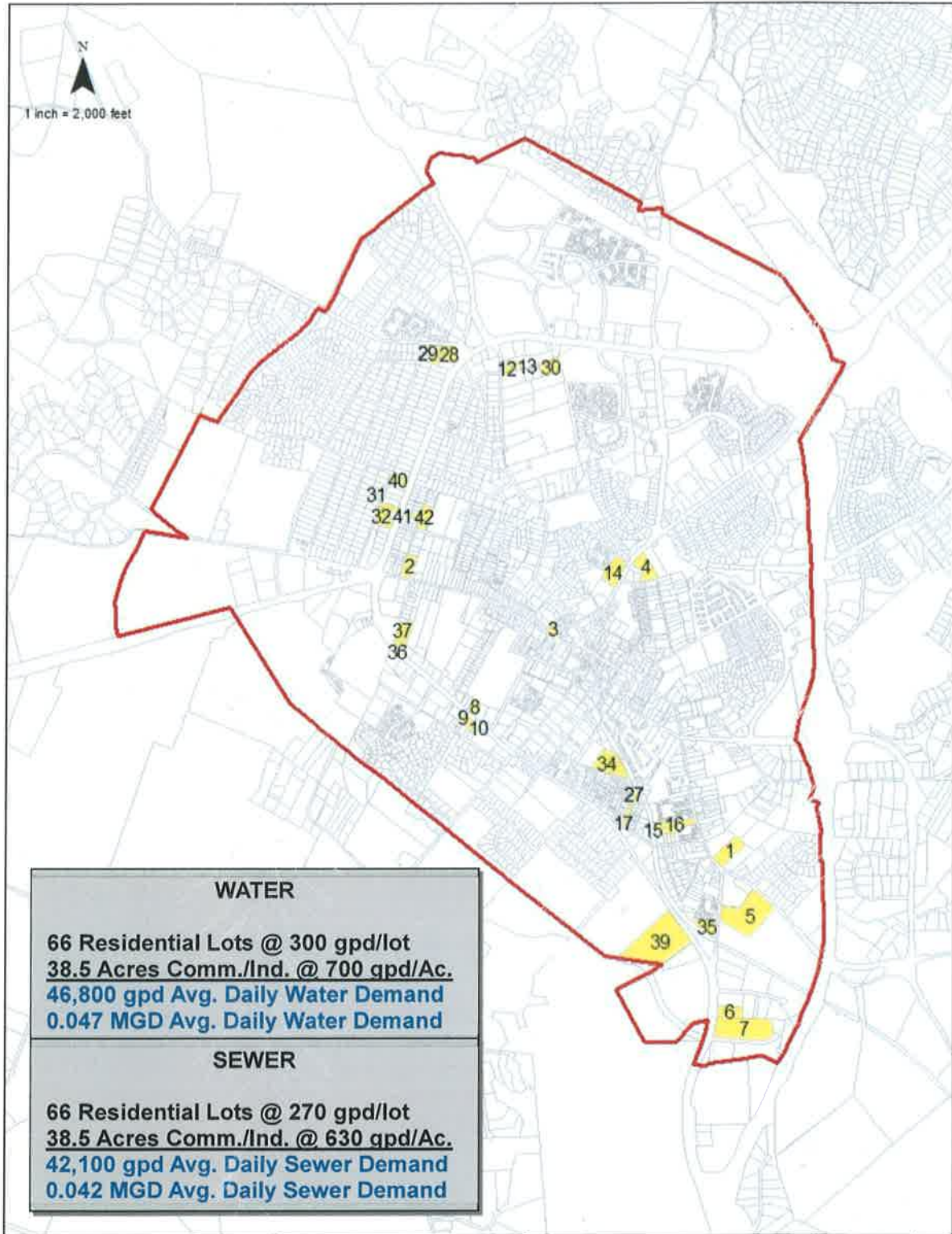


Figure 4
2015 Out of Town Potential Water Customers

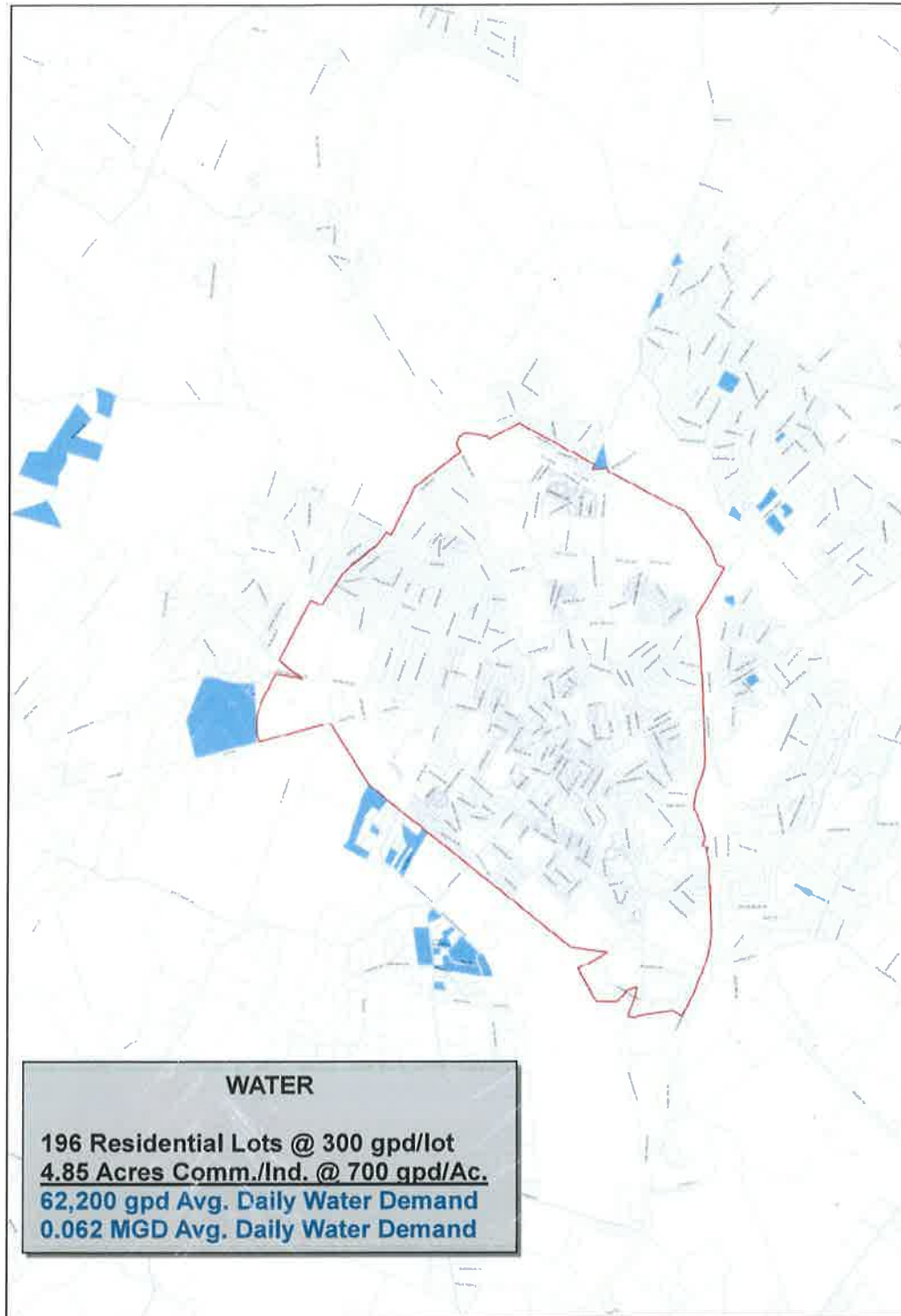
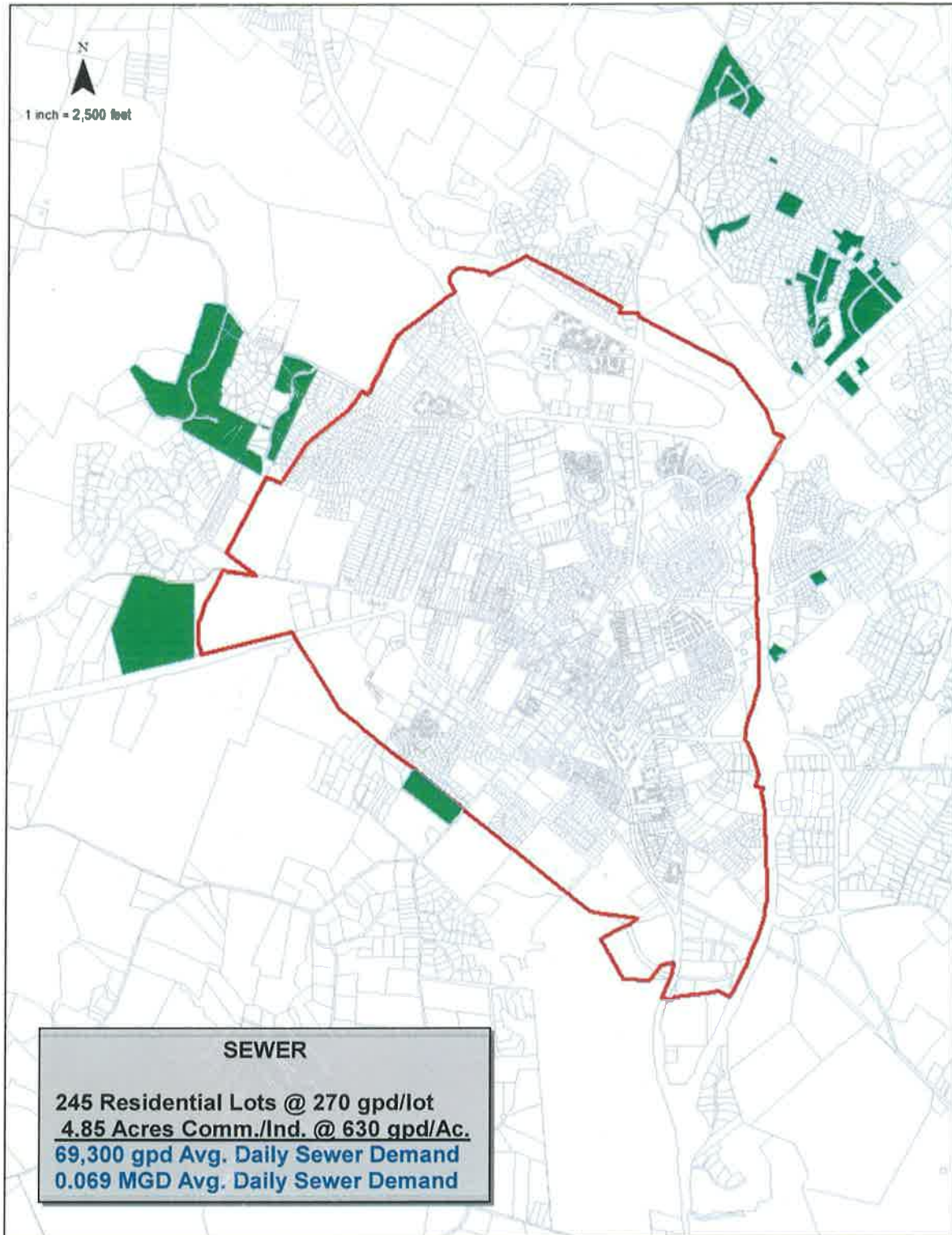


Figure 5
2015 Out of Town Potential Sewer Customers



At buildout of the committed water service area, the projected average daily water demand is 1.88 MGD which is at approximately 92% of the safe yield and drought reserve capacity of the available water resources. The maximum day water demand is 2.83 MGD. The components of the total demand at buildout are summarized in **Table 3**. Detailed calculations are presented in **Appendix F**.

Table 3
Projected Buildout Water System Demands

Review Area	Water Demand (gpd)
Currently proposed development	96,000
In Town - Vacant Lot Development	363,600
In Town - Redevelopment Potential	46,800
County - Unserviced Lots Within Commitment Area	62,200
Buildout Estimated Additional Water Demand	568,600
Current Average Day Demand	1,309,432
Buildout Estimated Water Demand	1,878,032
Available Safe Yield (Average Day from Sources)	2,046,667

At buildout of the committed sewer service area, the projected average monthly wastewater flow is 2.65 MGD which exceeds the 95% ADF flow capacity to 106% of the WWTP capacity. The components of the total sewage flow at buildout are summarized in **Table 4**. Detailed calculations are presented in **Appendix G**.

Table 4
Projected Buildout Sewer System Flows

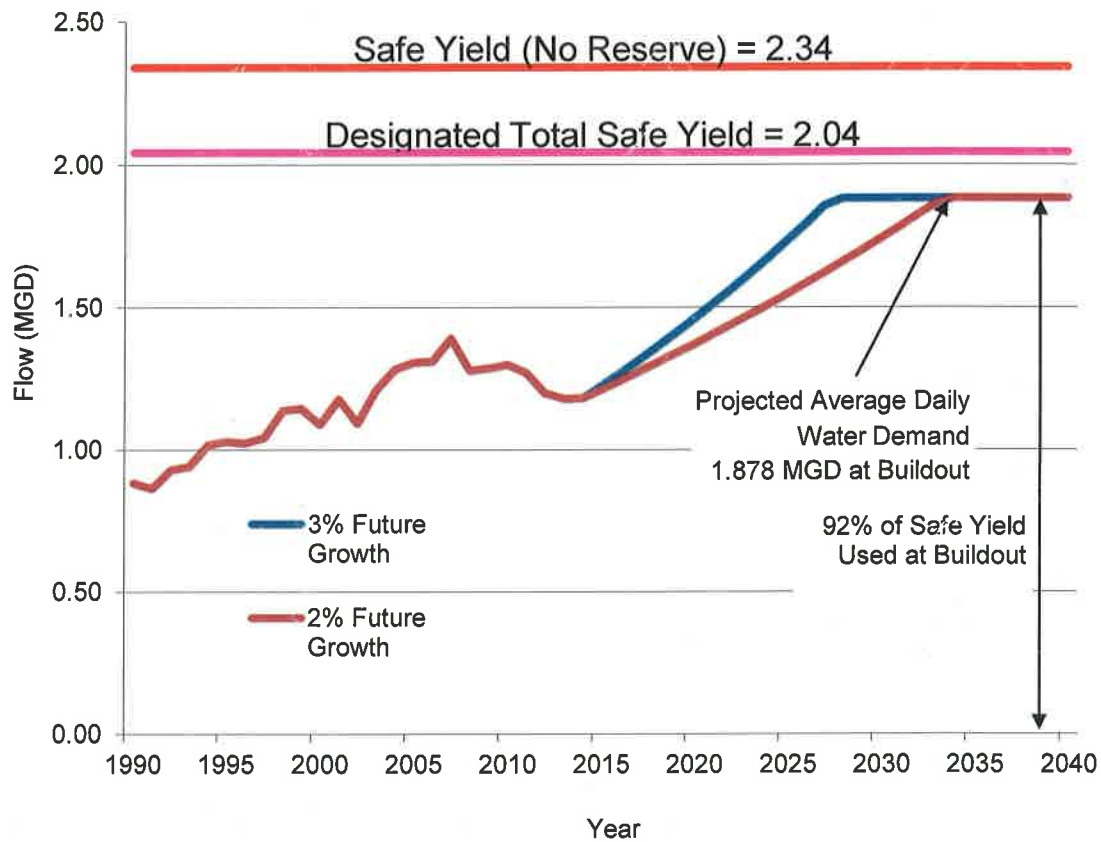
Review Area	Sewer Flow (gpd)
Currently proposed development	97,470
In Town - Vacant Lot Development	327,200
In Town - Redevelopment Potential	42,100
County - Unserviced Lots Within Commitment Area	69,300
Buildout Estimated Additional Sewer Demand	536,070
Current Average Day Demand	2,110,640
Buildout Estimated Sewer Demand	2,646,710
WWTP Capacity (95% ADF)	2,375,000

6. Growth Projections

The Town of Warrenton system accounts were growing in the early 2000's at over 5% per year. The recent growth has slowed considerably as the economy has slowed. Future growth has been estimated in the range of long term growth rates for the Town at 2% and 3% annually. Actual growth rates will vary and may change the year of buildout, however the projected buildout demands or flows will not change.

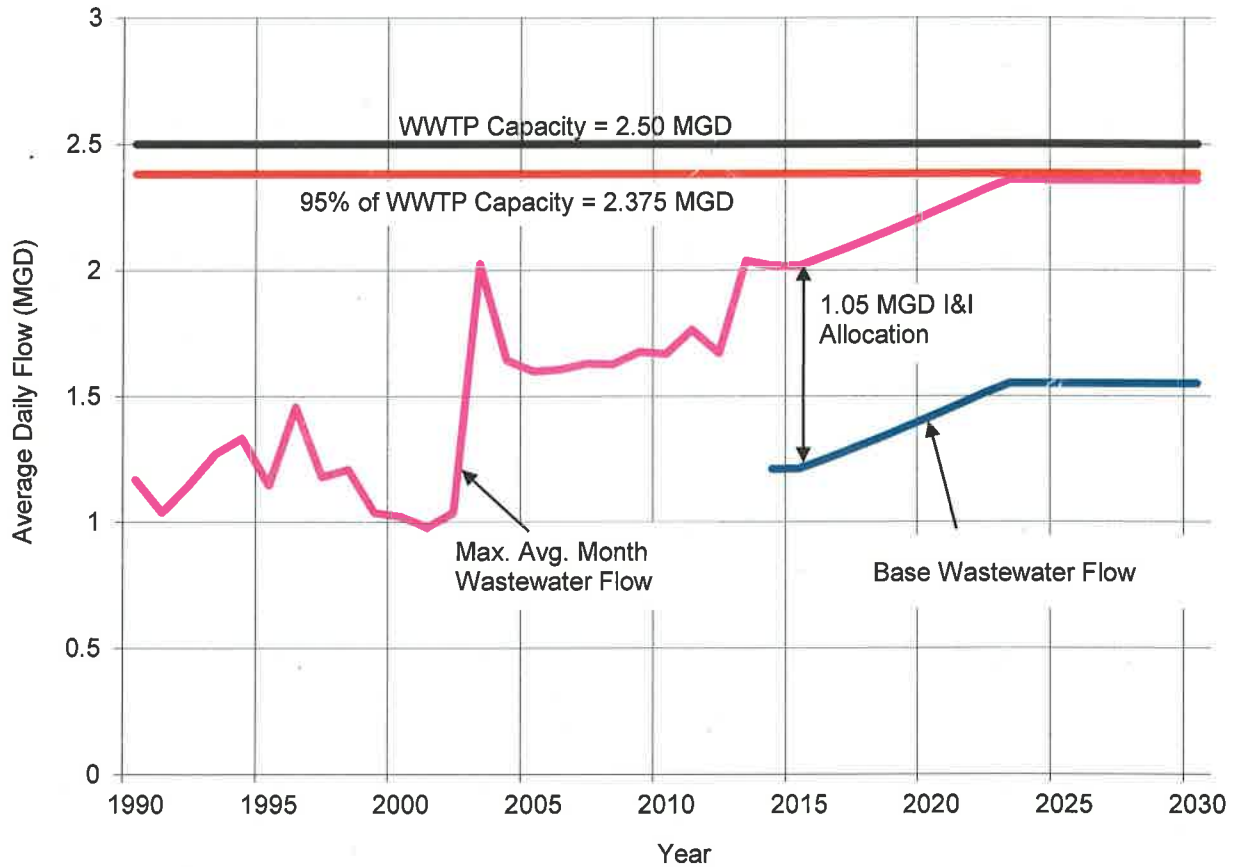
For this analysis, assuming buildout at 92% of the safe yield and drought contingency reserve (i.e. 1.878 MGD), the Town will reach the buildout water system demand in 2028 at 3% growth and 2033 at 2% growth. This is shown in **Figure 6** below.

Figure 6
Water System Growth and Safe Yield



Sewer flows are projected to reach buildout in 2024 at a 3% growth rate. **Figure 7** illustrates the projected sewer system growth in average daily and maximum month demands. For this analysis, buildout is assumed to be just below the 95% percent capacity limit of the WWTP (i.e. 2.375 MGD).

Figure 7
Wastewater Flow Projections



7. Additional Considerations

The capacity analysis for water takes into account the combined safe yield from all sources and its reduction due to drought contingency reserve limits. The combined safe yield of the available water sources is currently at 2.346 MGD which is reduced to 2.046 MGD due to the drought contingency reserve of 0.30 MGD instituted by the Town. For planning purposes, this drought contingency has been viewed as an additional level of protection. It is a reserve that can be utilized if the Town is willing to take that risk. If utilized, the average day demand would account for only 80% of the safe yield capacity of the available water resources.

Additionally, Well #3 and Well #4 have been out of service due to the presence of radio-nuclides which present a separate set of operational and treatment challenges. These wells can be brought online to provide an additional 0.315 MGD to the water system. The Town has the option to treat this water at the

source or divert it to the treatment plant, since the treatment plant has the capacity to treat this additional source. If considered this could boost the safe yield and drought contingency reserves from 2.04 MGD to 2.361 MGD (80%) or 2.661 MGD (i.e. 71%) if the drought contingency reserve requirement is eliminated.

8. Summary Analysis and Recommendations

Water:

- The buildout Average Water demand with current assets is at 92% of the allowable water demand capacity based on the safe yield and drought contingency reserve of 2.04 MGD. This percentage can be lowered to 80% if the drought contingency reserve limit is removed. In addition, if Well #3 and #4 are brought online, this can be lowered even further to 71%.
- The Town needs to develop a policy to meet additional water commitments by revisiting the drought contingency reserve. The recommendations presented in the 2010 strategic water supply plan of reactivating Well #3 and #4 as a treated source or reservoir recharge, and evaluating the potential and practicality of adding capacity to the Warrenton reservoir should also be investigated.

Sewer

- The buildout average sewer flows will reach 106% of the WWTP capacity. DEQ requires an upgrade plan when flows exceed 95% of the rated capacity, 2.375 MGD, for three consecutive months.
- To create flow capacity in the sewer system for the current customers, inflow and infiltration should be continuously investigated and corrected. Permanent flow meters should be installed at key locations in the system. The Town should set a goal to reduce the current I&I in 2-3 years and reduce it by 0.3 MGD. The Town has been conducting a flow monitoring study for the past 8 months. The study needs to be continued and expanded.
- A comprehensive evaluation of the WWTP upgrade is recommended to investigate opportunities to create additional capacity as a contingency if I&I reduction goals cannot be met and possible accommodation of additional sewer commitments.

General

- New developments without prior water and sewer commitments will increase buildout demands and flows and require system capacity improvements.
- The Town should develop contingency plans for future re-zonings, changes to water and sewer usage patterns, regulatory changes or other system changes.

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- Appendix A:** Properties that are either under construction, have an approved site plan, or are currently submitted and are under review.
- Appendix B:** In-Town Undeveloped Properties.
- Appendix C:** Potential Redevelopment Properties within the Town
- Appendix D:** Out of Town Water Commitment Properties
- Appendix E:** Out of Town Sewer Commitment Properties
- Appendix F:** Water Capacity Calculations
- Appendix G:** Sewer Capacity Calculations

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Warrenton Water and Sewer Capacity Review
Approved Site Plans and Master Plans

Appendix A

As of Feb 2015

remaining

INDEX REF	SUBDIVISION		UNITS		NOTES			ERCs
	SUBDIVISION	LOCATION	Status	Acres	Parcel	UNITS	Zoned	
13	Fletcherville	17 NORTH	SEWER ONLY PENDING FORCE	26	6975-77-6763	44 PENDING	V	44
17	Harway	Old Alex Pike	Site plan under review.	4	6984-56-8449	7 5/8" METERS	R-10	7
4	Stonecrest	OLD WATERLOO	Stone Crest next to Stone Lea	10	6974-66-4890	17 lots remaining	R-2	17
5	J. Tucker	S 5TH STREET	RESIDENTIAL	0	6984-42-6930		1 CB	1
7	MONROE EST II	MEETZE RD		3	6984-70-2394		6 R-15	6
8	PENNINGTON GRO	WATERLOO ST		2	6984-15-1368		6 R-6-10	6
9	Habitat	Sterling Ct	1 vacant lot left	1			1 R-6	1
10	Brenda Ct	Brenda Ct	UNDER REVIEW	1			2 R-10	2
11	North Alex Pike	North & Alex Pike	Approved 7/21/08	1		9 potential left	CBD	9
12	Middleburg Bank	Waterloo St		1			1 C	1
15	Madison Square	Falmouth / Madison	Preliminary	2			15 RMF	15
16	War Crossing	Oliver City Rd	Preliminary	41			135 R-15	135
3	Millfield	Academy Hill	Site plan under review	2			4 R4P	4
14	Winchester Chase	Winchester		21			71 R-10	71
18	Falmouth Landing	Falmouth St		2	6984-61-0173		3	3
19	Fau H Med Of Bld	Veterans Dr		3	6984-12-0815	2" meter		8
20	Oak V Bnk lot	Broadview Ave		1	6984-06-5261	1 future		1
1	Millfield	Academy Hill	Site plan under review	5			16	16
2	Millfield	Academy Hill	Site plan under review	1			3	3
21	Advance A Parts	Broadview Ave	Site plan under review	1			2	2
22	Lnwvr ph2 lot6	Holiday Ct	Site plan under review	2			1	2
23	Nokesville Bldrs	Madison St	Building Permit process	1			2	2
24	War Manor additn	Hastings Ln	Site plan under review	1			1	5

SEWER ERC Total 361
WATER ERC Total 317

Warrenton Water and Sewer Capacity Review
 Undeveloped Properties Within Warrenton - Water and Sewer

As of Feb 2015

Estimation of potential future water and sewer demands to be based on current zoning allowance.

	Zoning	Parcel #	Acreage	Prop. Units	Description
Commercial & Industrial					
88	C	6984-57-5835	1.03		BLACKWELL / WLKR
15	C		1.50		Broadview Ave, Goal LC
26	C		0.66		North Hill Dr
40	C		0.45		Chappell St, Foley
110	C		0.27		Oak Springs Dr, Jefferson
111	C		0.86		Oak Springs Dr, Jefferson
3	C		0.54		Sullivan St
114	C		1.17		Alwington Blvd
44	CBD	6984-44-0404	1.85		SPRING LN
91	CBD	6984-34-1010	0.55		WATERLOO
29	CBD		0.15		John E Mann St, Cannon Prop
30	CBD		0.14		Alex Pike, Cannon Prop
32	CBD		0.04		Waterloo, Harris
45	CG	6984-41-1844	2.41		WASHINGTON ST
46	CL	6985-40-1125	0.43		FLETCHER/OAK SPR
109	CL	6984-48-8559	1.21	COMMERCIAL	ADJ TO RUBY TUES
90	CL	6985-20-8162	5.54		17 NORTH
5	CL		1.15		Blackwell Park
78	CO	6974-94-7967	0.28		551 FROST
TOTAL COMMERCIAL			20.24	Acres	
48	IG	6983-78-1685	26.88		INDUSTRIAL PARK/
49	IG	6983-77-3316	1.95		INDUSTRIAL PARK
50	IG	6983-77-6242	0.66		INDUSTRIAL P HIT
51	IG	6983-76-5917	1.95		INDUSTRIAL P. HI
69	IG	6983-66-9788	5.14	Flood Plain	INDUSTRIAL RD
52	IG	6983-66-9788	1.19		INDUSTRIAL RD
6	IG		2.27		Industrial Rd
102	IG	6984-76-3924	1.18		Holiday Ct LLC
7	IG		2.03		James Mad Hwy The War Ind Park
2	IG		0.98		Old Meetze Rd
53	IL	6985-60-4454	27.51		ROUTE 17 BY-PASS
54	IL	6984-69-2419	41.37		ROUTE 17 BY-PASS
55	IL	6984-74-7300	5.95		WALKER DRIVE
56	IL	6984-73-7494	8.54		WALKER DRIVE
57	IL	6984-72-3635	11.85		WALKER DRIVE
TOTAL INDUSTRIAL			139.45	Acres	
106	PSP	6985-50-1018	0.90		ARBOR CT
80	PSP	6984-03-2517	6.11	Steep Slope	W SHIRLEY
TOTAL PSP, PD			7.01	Acres	
COMBINED COMMERCIAL / INDUSTRIAL / PSP =			166.71	Acres	

Warrenton Water and Sewer Capacity Review
Undeveloped Properties Within Warrenton - Water and Sewer

Residential

61	R-10	6984-24-0072	0.80	3	WEST SHIRLEY
62	R-10	6984-13-9896	1.38	6	WEST SHIRLEY
63	R-10	6984-31-4162	8.66	38	EAST SHIRLEY
64	R-10	6984-30-1806	6.51	28	EAST SHIRLEY
65	R-10	6983-39-5536	28.66	44	OFF MONROE STREE
60	R-10	6984-24-0298	0.89	4	BEACH ST
76	R-10	6984-36-3976	6.49	28	345 WINCHESTER
47	R-10	6974-83-8762	54.11	236	211
59	R-10	6974-94-2535	1.09	5	211
79	R-10	6974-94-4431	2.02	9	500 HOSPITAL DR
96	R-10	6984-56-4337	0.79	3	BLACKWELL
89	R-10	6984-56-6816	4.22	18	BLACKWELL
72	R-10	6984-67-0049	6.81	30	BLACKWELL
73	R-10		6.77	31	COBBS HILL
58	R-10		1.32	6	COBBS HILL
103	R-10	6984-41-2563	0.19	1	WASHINGTON
100	R-10	6984-41-3560	0.18	1	WASHINGTON
101	R-10	6984-41-5434	0.15	1	175 LOCUST
18	R-10		0.30	1	Monroe St, Charles Garrett
19	R-10		0.12	1	Wilson St, William Ford
20	R-10		0.12	1	Wilson St, William Ford
24	R-10		0.43	2	Roebing St, 1st Christ Sci
25	R-10		0.47	2	Richards Dr, Jones Lindsay
31	R-10		0.11	0	Alex Pike, Fletcher
37	R-10		0.31	1	Brenda Ct, Flkeld
38	R-10		0.31	1	Orchard Ln, Autln
39	R-10		0.29	1	Roebing St, Kowalewski
4	R-10		3.90	17	Moser Rd, Methodist Church
112	R-10		2.05	9	High St, Benchoff
115	R-10		2.45	11	Legion Dr.
	R-10		141.88	539.0	
66	R-15	6984-18-2905	0.49	1	NORFOLK/BEARWALL
67	R-15	6984-18-3915	0.35	1	NORFOLK/BEARWALL
68	R-15	6984-18-2709	0.40	1	NORFOLK/BEARWALL
74	R-15	6985-01-9275	0.73	2	FOXCROFT
108	R-15	6985-22-9424	0.63	2	WILLOW CT
105	R-15	6985-41-9244	1.07	3	BLACKWELL RD
107	R-15	6984-18-1770	0.49	1	NORFOLK
84	R-15	6984-18-1640	0.46	1	NORFOLK
85	R-15	6984-18-0480	0.45	1	NORFOLK
86	R-15	6974-97-5360	0.45	1	GAY RD
99	R-15	6984-10-9599	9.48	28	CULPEPER
83	R-15	6983-88-0634	1.63	5	OLD MEETZE
81	R-15	6983-79-8068	6.07	18	OLD MEETZE
8	R-15		1.39	4	Old Mill Ln Dobson
9	R-15		0.45	1	Old Mill, FairFax Oliver
10	R-15		0.38	1	East Lee, Fairfax Dev Corp
11	R-15		0.41	1	East Lee, Fairfax Dev Corp
12	R-15		0.85	2	Fauquier Rd, TBC Corporation
13	R-15		0.22	1	Dover Rd, Kathryn Megby
14	R-15		0.22	1	Dover Rd, Patricia Short
16	R-15		1.28	4	Fisher Ln, Daniel Oconnoll
17	R-15		0.03	0	Fisher Ln, Festus James
	R-15		27.94	80.0	

Warrenton Water and Sewer Capacity Review
 Undeveloped Properties Within Warrenton - Water and Sewer

Residential (continued)

94	R-4	6984-54-7426	0.54		6 BOUNDARY
	R-4		0.54	6.0	
82	R-6	6984-53-9508	5.10	37	
70	R-6	6984-52-9628	0.98	7	
97	R-6	6984-54-5995	0.78	6	
93	R-6	6984-54-6856	0.71	5	
95	R-6	6984-54-7371	0.76	6	
87	R-6	6984-34-0006	0.43	3	
21	R-6		0.16	1	High St, Dana Bowman
22	R-6		0.65	5	High St, Frost Family LLC
23	R-6		0.53	4	High St, Carey Ebert
27	R-6		0.16	1	Liberty St, Morris
28	R-6		0.20	1	Boundary Ln, Artico
33	R-6		0.60	4	N Chestnut, Maybach
34	R-6		0.62	5	Winchester, Maybach
35	R-6		0.24	2	Gaines St, Maybach
116	R-6		2.73	20	Falmouth st.
	R-6		14.64	107.0	
92	RMF	6984-32-6367	1.14	23	GREEN ST
104	RMF	6984-31-3979	0.85	17	GREEN
	RMF		1.99	40.0	
75	RO	6984-21-5963	0.89	4	W SHIRLEY
98	RO	6984-21-7785	0.65	3	E SHIRLEY
41	RO		0.44	2	Jackson St, Foley
42	RO		1.07	5	Keith St, Lindsey
43	RO		0.96	4	W Shirley, Frost Family
	RO		4.01	18.0	
71	RT	6984-44-0899	2.46	17	OFF CONWAY GROVE
77	RT		1.04	7	Blackwell Rd
36	RT		0.24	2	Winchester Mews, Heltzel
113	RT		0.22	2	Benner Dr
1	RT		0.65	5	Benner Dr
	RT		4.61	33.0	
TOTAL POTENTIAL RESIDENTIAL =			823.00		Residential Units

Town of Warrenton Zoning Definitions

CBD	Central Business District	R-15	Residential 15,000 SF
CG	Commercial General	R-10	Residential 10,000 SF
CL	Commercial Limited	R-6	Residential 6,000 SF
IG	Industrial General	RT	Residential Townhouse (7 Units/Ac)
IL	Industrial Limited	RMF	Residential Apartments (20 Units/Ac)
PSP	Public / Semi-Public	RO	Residential Office (Equiv. To R-10)
C	Commercial		

Warrenton Water and Sewer Capacity Review

Potential Redevelopment Properties Within Warrenton - Water and Sewer

As of February 2015

Estimation of potential future water and sewer demands to be based on current zoning allowance.

	Zoning	Parcel #	Acreage	Prop. Units	Description
Commercial & Industrial					
8	CG	0750	0.92		W. Shirley Ave.
9	CG	8574	0.35		W. Shirley Ave.
10	CG	9433	0.41		W. Shirley Ave.
14	CB	6984-45-4167	2.88		ALEX PIKE & KING
28	CG		1.49		Broad v Bearflow
29	CG		1.12		Broad v Bearflow
31	CG		1.38		Broadview
32	CG		1.12		Broadview
33	CG		0.55		Broadview
34	CG		4.09		Washington
36	CG		0.64		Tolson
37	CG		1.66		
40	CG		0.71		Broadview Old Cecil's
41	CG		0.43		Broadview Backs Up to
3	CBD		0.57		Waterloo S Napoleons
TOTAL COMMERCIAL			18.32	Acres	
5	IG	69-8183	9.72		Warrenton I. P. - Wire Rope
6	IG	5309	1.99		Warrenton I. P. - Car Dealer
7	IG	5171	8.51		Warrenton I. P. - Lumber Yard
35	IG		1.72		Mld County
1	IG		3.17		Falmouth S
TOTAL INDUSTRIAL			20.22	Acres	
39	PSP	6983-48-7988	13.77		E. Shirley
COMBINED INDUSTRIAL, COMMERCIAL & PSP =			38.54	Acres	

Warrenton Water and Sewer Capacity Review

Potential Redevelopment Properties Within Warrenton - Water and Sewer

Residential

11	RO	0319	0.30	1	W. Shirley Ave. & Kelth St.
12	RO	5680	0.47	2	WINCHESTER ST
13	RO	7643	0.41	2	WINCHESTER ST
2	RO		1.71	7	Waterloo S
42	RO		1.55	7	Sullivan St, Joe Grimsle
16	RT	6984-50-4544	1.88	13	MADISON ST
15	R-10	6984-50-4544	0.71	3	MADISON ST
17	R-10	6984-40-6668	0.20	1	LINDEN
18	R-10	6984-40-6784	0.14	1	LINDEN
19	R-10	6984-40-7708	0.14	1	LINDEN
20	R-10	6984-40-7833	0.14	1	LINDEN
21	R-10	6984-40-7858	0.14	1	LINDEN
22	R-10	6984-40-7962	0.13	1	LINDEN
23	R-10	6984-40-7996	0.14	1	LINDEN
24	R-10	6984-41-8001	0.14	1	LINDEN
25	R-10	6984-41-8026	0.14	1	LINDEN
26	R-10	6984-41-8141	0.13	1	LINDEN
27	R-10	6984-41-8147	0.17	1	LINDEN
30	R-10		1.75	8	Winchester/Branch
4	R-10		2.74	12	High St, Benchoff

TOTAL POTENTIAL RESIDENTIAL

66

Town of Warrenton Zoning Definitions

CBD	Central Business District	R-10	Residential 10,000 SF
CG	Commercial General	R-6	Residential 6,000 SF
CL	Commercial Limited	RT	Residential Townhouse (7 Units/Ac)
IG	Industrial General	RMF	Residential Apartments (20 Units/Ac)
IL	Industrial Limited	RO	Residential Office (Equiv. To R-10)
R-15	Residential 15,000 SF	PSP	Public / Semi-Public

Warrenton Water and Sewer Capacity Review

Fauquier County Unserved Properties
 Within Committed Service Area - Water

WATER in County

Warrenton has previously committed to providing water service to the following areas of Fauquier County currently not being serviced as of Feb 2015:

Residential

Zoning	Parcel #	Acreage	Prop. Units	Description
RC	-02-6474	13.30	1	View Tree Drive
RC	-01-2670	10.22	1	View Tree Drive
RC	6965-91-7314	10.00	1	View Tree Drive
RC	-7320	10.00	1	View Tree Drive
RC	-1976	10.00	1	View Tree Drive
RC	-13-6240	5.87	1	View Tree Drive
RC	6974-49-8614	10.00	2	Bear Wallow Drive
RC	6975-50-1279	12.86	2	Bear Wallow Drive
RC Total			10	Units

Zoning	Parcel #	Acreage	Prop. Units	Description
R-1	6974-68-5882	12.46	12	View Tree Turn
R-1	6974-82-9313	7.71	7	Shipmadilly Lane
R-1	6974-81-6805	1.00	1	Shipmadilly Lane
R-1	6974-81-4443	4.00	4	Shipmadilly Lane
R-1	6974-81-5012	1.00	1	Shipmadilly Lane
R-1	6974-80-7911	1.00	1	Shipmadilly Lane
R-1	6974-91-0515	1.00	1	Shipmadilly Lane
R-1	6974-90-4875	1.40	1	Shipmadilly Lane
R-1	6974-90-7841	1.74	1	Shipmadilly Lane
R-1	6974-90-8515	1.50	1	Shipmadilly Lane
R-1	6974-90-9738	1.13	1	Shipmadilly Lane
R-1	6984-01-1529	3.26	3	Shipmadilly Lane
R-1	6984-01-0284	4.09	4	Shipmadilly Lane
R-1	6984-01-3414	1.00	1	Shipmadilly Lane
R-1	6984-01-2102	0.40	1	Shipmadilly Lane
R-1	6984-95-2640	2.00	2	Academy Hill
R-1	6983-09-5283	1.87	1	Leeton Forest Road
R-1	6983-08-2787	2.50	2	Lee's Ridge Road
R-1	6983-08-3529	1.00	1	Lee's Ridge Road
R-1	6983-08-3338	1.00	1	Lee's Ridge Road
R-1	6983-08-3247	1.00	1	Lee's Ridge Road
R-1	6983-08-3170	2.18	2	Lee's Ridge Road
R-1	6983-07-3993	1.10	1	Lee's Ridge Road
R-1	6983-08-9796	1.17	1	Leeton Forest Road
R-1	6983-08-8427	1.00	1	Hunting Lane
R-1	6983-08-9488	1.00	1	Hunting Lane
R-1	6983-08-6285	1.00	1	Hunting Lane
R-1	6983-18-1204	1.00	1	Hunting Lane
R-1	6983-18-2344	1.00	1	Hunting Lane
R-1	6983-18-3552	1.00	1	Hunting Lane
R-1	6983-18-4365	1.00	1	Leeton Forest Road
R-1	6983-18-5257	1.00	1	Leeton Forest Road
R-1	6983-18-6177	1.00	1	Leeton Forest Road
R-1	6983-18-8087	1.00	1	Leeton Forest Road
R-1	6983-17-9942	1.00	1	Leeton Forest Road

Warrenton Water and Sewer Capacity Review

Fauquier County Unserved Properties
 Within Committed Service Area - Water

R-1	6983-27-0719	1.00	1	Leeton Forest Road
R-1	6983-27-0654	1.00	1	Leeton Forest Road
R-1	6983-17-7780	1.00	1	Fox Trail
R-1	6983-17-6724	1.00	1	Fox Trail
R-1	6983-17-6977	1.00	1	Fox Trail
R-1	6983-18-4092	1.00	1	Fox Trail
R-1	6983-17-4786	1.00	1	Fox Trail
R-1	6983-17-3728	1.00	1	Fox Trail
R-1	6983-18-3066	1.00	1	Fox Trail
R-1	6983-18-2018	1.02	1	Fox Trail
R-1	6983-17-1880	1.00	1	Fox Trail
R-1	6983-17-0845	1.00	1	Fox Trail
R-1	6983-08-9050	1.00	1	Fox Trail
R-1	6983-07-7892	1.00	1	Lee's Ridge Road
R-1	6983-07-7321	1.35	1	Lee's Ridge Road
R-1	6985-51-1479	1.66	1	Blackwell Road
R-1	6985-51-1767	1.72	1	Blackwell Road
R-1	6985-23-9984	1.11	1	Manor House Drive
R-1	6975-70-0736		1	Bear Wallow Road
R-1	6975-70-0797	0.27	1	Bear Wallow Road
R-1	6975-70-4645	0.25	1	Bear Wallow Road
	6974-62-2223		45	Van Roijen
R-1 Total			129	Units
Zoning	Parcel #	Acreage	Prop. Units	Description
R-2	6985-80-7187	1.29	2	Hunton St.
R-2	6985-90-1007	1.96	3	Warrenton Church of Christ
R-2	6985-90-2124	0.87	1	Warrenton Church of Christ
R-2	6985-90-4299	0.67	1	Warrenton Church of Christ
R-2	6985-90-5480	0.69	1	Warrenton Church of Christ
R-2	6985-90-6591	0.70	1	Warrenton Church of Christ
R-2	6985-90-7682	0.70	1	Warrenton Church of Christ
R-2	6985-90-8760	0.70	1	Warrenton Church of Christ
R-2	6995-01-3113	0.70	1	Lee Hwy Access Road
R-2	6974-78-6956	1.30	2	Foxview Drive
R-2	6985-65-6852		1	Blackwell Road
R-2	6985-66-7045	0.85	1	Blackwell Road
R-2	6985-77-2003	1.14	2	Blackwell Road
R-2	6985-76-8226		1	Airlie Road
R-2 Total			19	Units
Zoning	Parcel #	Acreage	Prop. Units	Description
R-4	6984-94-0653	5.46	15	Millfield Drive
R-4	6984-84-6403	1.78	7	Millfield Drive
R-4	6984-95-5265	5.03	15	Millfield Drive
R-4 Total			37	Units
Zoning	Parcel #	Acreage	Prop. Units	Description
V	6993-09-7817	1.25	1	Fox Haven Lane
V Total			1	Unit
TOTAL RESIDENTIAL			196	Units

Warrenton Water and Sewer Capacity Review

Fauquier County Unserved Properties
Within Committed Service Area - Water

Commercial

Zoning	Parcel #	Acreage	Prop. Units	Description
C-2	6984-99-8855	3.30		Comfort Inn Dr
C-2	6995-00-2233	1.55		Comfort Inn Dr

TOTAL COMMERCIAL 4.85 Acres

Public/Semi-Public

Fauquier County Zoning Definitions

- R-1 Residential, 1 dwelling unit per acre
- R-2 Residential, 2 dwelling units per acre
- R-4 Residential, 4 dwelling units per acre
- RC Rural, Conservation District
- V Residential, Village District
- C-2 Commercial - Highway

Warrenton Water and Sewer Capacity Review

Fauquier County Unserved Properties
 Within Committed Service Area - Sewer

SEWER in County

Warrenton has committed to providing sewer service to the following areas of Fauquier County currently not being serviced since Feb 2015:

Zoning	Parcel #	Acreeage	Prop. Units	Description
Residential				
RC	6974-49-8614	10.00	2	Bear Wallow Drive
RC	6975-50-1279	12.86	2	Bear Wallow Drive
RC	6974-59-3464	11.90	2	Bear Wallow Drive
RC	6975-50-6340	3.32	1	Bear Wallow Drive
RC	6975-50-7500	0.73	1	Bear Wallow Drive
RC	6975-50-8548	1.91	1	Bear Wallow Drive
RC	6975-50-9707	2.00	1	Bear Wallow Drive
RC	6975-50-9965	2.00	1	Bear Wallow Drive
RC	6975-61-0113	2.00	1	Bear Wallow Drive
RC	6975-61-0360	2.00	1	Bear Wallow Drive
RC	6975-61-1540	2.11	1	Bear Wallow Drive
RC Total			14	Units
Zoning	Parcel #	Acreeage	Prop. Units	Description
R-1	6975-61-3290	1.13	1	Bear Wallow Road
R-1	6975-61-4097	1.01	1	Bear Wallow Road
R-1	6975-60-6905		1	Bear Wallow Road
R-1	6975-60-3875	1.71	1	Bear Wallow Drive
R-1	6975-60-3687	1.45	1	Bear Wallow Drive
R-1	6975-60-3534	1.46	1	Bear Wallow Drive
R-1	6975-60-2377	1.91	1	Bear Wallow Drive
R-1	6975-60-1280	1.63	1	Bear Wallow Drive
R-1	6975-60-0055	2.81	1	Bear Wallow Drive
R-1	6974-59-9426	10.16	10	Bear Wallow Drive
R-1	6974-58-9824	10.07	10	Bear Wallow Drive
R-1	6974-68-5882	12.46	12	View Tree Turn
R-1	6984-84-3085	1.00	1	Millfield Drive - Church
R-1	6984-83-2993	1.00	1	Millfield Drive - Church
R-1	6984-95-2640	2.00	2	Academy Hill Road
R-1	6984-00-7961	12.26	12	Culpeper St.
R-1		2.90	2	Culpeper St.
R-1	4540	23.40	23	Culpeper St.
	6974-62-2223		45	Van Roijen
R-1 Total			127	Units

Warrenton Water and Sewer Capacity Review

Fauquier County Unserved Properties
 Within Committed Service Area - Sewer

Zoning	Parcel #	Acreage	Prop. Units	Description
R-2	6975-70-7346	1.32	1	Bear Wallow Road
R-2	6975-80-0283	1.47	1	Bear Wallow Road
R-2	6975-70-8147		1	Foxview Drive
R-2	6975-70-6142	1.63	1	Foxview Drive
R-2	6974-89-0819	2.63	1	Foxview Drive
R-2	6974-79-6940	1.30	1	Foxview Drive
R-2	6974-79-6724	1.27	1	Foxview Drive
R-2	6974-79-9761	1.08	1	Foxview Drive
R-2	6974-79-9534	1.05	1	Foxview Drive
R-2	6974-79-8324	1.21	1	Foxview Drive
R-2	6974-79-6162	1.60	1	Foxview Drive
R-2	6974-78-6956	1.30	2	Foxview Drive
R-2	6974-78-5774	1.82	1	Foxview Drive
R-2	6974-78-4512	1.06	2	Foxview Drive
R-2	6974-78-3360	1.00	1	Foxview Drive
R-2	6974-68-9224	3.80	7	Foxview Drive
R-2			80	Warrenton Lakes
R-2 Total			104	Units

TOTAL RESIDENTIAL 245 Units

Commercial

Zoning	Parcel #	Acreage	Prop. Units	Description
C-2	6984-99-8855	3.30		Comfort Inn Dr
C-2	6995-00-2233	1.55		Comfort Inn Dr

TOTAL COMMERCIAL 4.85 Acres

Public/Semi-Public

Fauquier County Zoning Definitions

R-1	Residential, 1 dwelling unit per acre
R-2	Residential, 2 dwelling units per acre
R-4	Residential, 4 dwelling units per acre
RC	Rural, Conservation District
C-2	Commercial - Highway

Warrenton Water and Sewer Capacity Review
 Projected Water System Demand Calculations

Appendix F

Historic Water Production

Year	ADF (MGD)	Annual Water Production Growth	Number of Customers	Annual Customer Growth
1990	879,851		2,634	
1991	860,597	-2.19%	2,674	1.52%
1992	925,499	7.54%	2,887	0.49%
1993	936,539	1.19%	2,706	0.71%
1994	1,012,281	8.09%	2,789	3.07%
1995	1,023,993	1.15%	2,821	1.15%
1996	1,018,918	-0.49%	2,800	2.45%
1997	1,037,978	1.87%	2,934	1.52%
1998	1,132,086	9.07%	3,025	3.10%
1999	1,139,682	0.67%	3,069	1.45%
2000	1,083,306	-4.95%	3,262	6.29%
2001	1,173,354	8.31%	3,479	6.65%
2002	1,088,300	-7.25%	3,717	6.84%
2003	1,206,455	10.89%	3,954	6.38%
2004	1,277,233	5.87%	4,178	5.67%
2005	1,300,766	1.84%	4,455	6.63%
2006	1,305,302	0.35%	4,577	2.74%
2007	1,386,492	6.22%	4,652	1.64%
2008	1,273,096	-8.18%	4,686	0.73%
2009	1,281,504	0.66%	4,726	0.85%
2010	1,293,735	0.95%	4,724	-0.04%
2011	1,265,019	-2.22%	4,747	0.49%
2012	1,192,536	-5.73%	4,776	0.61%
2013	1,175,027	-1.47%	4,803	0.57%
2014	1,176,015	0.08%	4,808	0.10%
Avg. Annual Increase (1990 - 2014)	19,744	1.46%	91	3.44%
Highest Average Daily Water Produced in 5 years =	1,309,432 gpd (2005-2009)			

Warrenton Water and Sewer Capacity Review
Projected Water System Demand Calculations

Appendix F

Peaking Factor

Based on the historic data, the peaking factor (Ave Day to Max Day) is 1.50
Potential Max Day Demand 1,964,148 gpd

Surface Water Sources

Warrenton has two water surface reservoirs, Warrenton and Airlee Reservoir.

Airlee Reservoir Safe Yield	1,160,000 gpd	
Warrenton Reservoir Safe Yield (downstream of Airlee)	1,140,000 gpd	
Combined Safe Yield Only	2,270,000 gpd	(sum total less due to seepage and evaporation)
Drought Reserve	300,000 gpd	
Available Safe Yield	1,970,000 gpd	

Groundwater Water Sources

Warrenton has two wells in service to supplement the surface water sources. These wells have been in continuous operation for many years with no

Well #3 Current Not Operational			
Well #4 Currently Not Operational			
Well #5 Current Operating Flow Rate =	1,500,000 gal/month =	50,000 gpd =	70 gpm (12 hr operation)
Well #6 Current Operating Flow Rate =	800,000 gal/month =	26,667 gpd =	38 gpm (12 hr operation)
Combined Well Flow Rate =	2,300,000 gal/month =	76,667 gpd	
Current Combined Source Availability =		2,046,667 gpd	

Current WTP Capacity

Current WTP Capacity = 3,000,000 gpd

Warrenton Water and Sewer Capacity Review
 Projected Water System Demand Calculations

Appendix F

Water Demand by Currently Proposed Developments

Number of currently proposed ERC = 317 Units
 Current Proposed Development 96,000 gpd (300 gpd/residence)

Future Maximum Day Water Production

Max. Avg. Daily Water Availability (Safe Yield) = 2,046,867 gpd (Surface and Groundwater)
 Town AVG Yearly Water Use is currently at 1,309,432 gpd (2005-2008)

Current Remaining Water System Capacity = 737,235 gpd

Estimated Buildout of Town & Ex. County Commitments

In Town - Vacant Lot Development			
Residential Demands	246,900 gpd	823 Potential Residential Lots @	300 gpd/residence
Commercial/Industrial Demands	116,700 gpd	166.7 Acres Commercial/Industrial @	700 gpd/acre
In Town - Redevelopment Potential			
Residential Demands	19,800 gpd	66 Net Potential Residential Lots @	300 gpd/residence
Commercial/Industrial Demands	27,000 gpd	38.54 Acres Commercial/Industrial @	700 gpd/acre Increase
County - Unserved Lots Within Commitment Area			
Residential Demands	58,800 gpd	198 Potential Residential Lots @	300 gpd/residence
Commercial/Industrial Demands	3,400 gpd	4.85 Acres Commercial/Industrial @	700 gpd/acre

Subtotal - Additional Water Demand at Buildout = 472,800 gpd

Total Estimated Average Water Demand at Buildout of Town & Committed County Area = 1,878,032 gpd 92%

Estimated Remaining Future Water Capacity = 168,635 gpd Compared to Safe Yield

Max Day Peaking Factor = 1.5
 Max Day Demand (Buildout) = 2,817,048 gpd
 Min. Future WTP Capacity = 2,740,382 gpd (To serve only Buildout of Town & Committed County Areas) 91%
 Optimized WTP Capacity = 3,000,000 gpd (Correlated with designated safe yield from all sources)

Warrenton Water and Sewer Capacity Review
 Projected Water System Demand Calculations

Appendix F

Growth Projections

Year	ADF (gallons)	ADF (MGD)	Annual Water Production Growth	Number of Customers	Annual Customer Growth
1990	879,851	0.88		2,834	
1991	880,587	0.88	-2.19%	2,874	1.52%
1992	925,499	0.93	7.54%	2,687	0.49%
1993	936,539	0.94	1.18%	2,708	0.71%
1994	1,012,281	1.01	8.09%	2,789	3.07%
1995	1,023,993	1.02	1.15%	2,821	1.15%
1996	1,018,918	1.02	-0.49%	2,890	2.45%
1997	1,037,978	1.04	1.87%	2,934	1.52%
1998	1,132,098	1.13	9.07%	3,025	3.10%
1999	1,139,882	1.14	0.67%	3,089	1.45%
2000	1,083,306	1.08	-4.95%	3,282	6.29%
2001	1,173,354	1.17	8.31%	3,479	6.65%
2002	1,086,300	1.09	-7.25%	3,717	6.84%
2003	1,206,455	1.21	10.88%	3,954	6.38%
2004	1,277,233	1.28	5.87%	4,176	5.67%
2005	1,300,766	1.30	1.84%	4,455	6.63%
2006	1,305,302	1.31	0.35%	4,577	2.74%
2007	1,386,492	1.39	6.22%	4,652	1.64%
2008	1,273,098	1.27	-8.18%	4,686	0.73%
2009	1,281,504	1.28	0.66%	4,726	0.85%
2010	1,283,735	1.29	0.95%	4,724	-0.04%
2011	1,285,019	1.27	-2.22%	4,747	0.49%
2012	1,192,538	1.19	-5.73%	4,776	0.61%
2013	1,175,027	1.18	-1.47%	4,803	0.57%
Current	1,178,015	1.18	0.08%	4,808	0.10%
Projected	1,219,267	1.22	3.66%	4,952	3.00%
Projected	1,243,857	1.26	3.66%	5,101	3.00%
Projected	1,309,764	1.31	3.63%	5,254	3.00%
Projected	1,357,049	1.36	3.61%	5,411	3.00%
Projected	1,405,752	1.41	3.59%	5,574	3.00%
Projected	1,455,916	1.46	3.57%	5,741	3.00%
Projected	1,507,565	1.51	3.55%	5,913	3.00%
Projected	1,560,804	1.56	3.53%	6,091	3.00%
Projected	1,615,820	1.62	3.51%	6,273	3.00%
Projected	1,672,080	1.67	3.49%	6,462	3.00%
Projected	1,730,234	1.73	3.48%	6,655	3.00%
Projected	1,790,133	1.79	3.46%	6,855	3.00%
Projected	1,851,828	1.85	3.45%	7,061	3.00%
Projected	1,878,032	1.88	1.42%	7,273	3.00%
Projected	1,878,032	1.88	0.00%	7,491	3.00%
Projected	1,878,032	1.88	0.00%	7,715	3.00%

BUILDOUT

Warrenton Water and Sewer Capacity Review
 Projected Sewer System Demand Calculations

Appendix G

Historic Sewer Flows

As Sewage flows are greatly influenced by I/I into the system and water usage, these were analyzed to determine their impact.

Year	ADF (MGD)	Annual Growth	Number of Customers	Annual Customer Growth	Sewage/Water Customers Ratio	Sewage Treated/Water Produced Ratio	Annual Rainfall <small>* DuInches</small>
1990	1.17		2,229		85%	133%	45.93
1991	1.04	-11.17%	2,235	0.27%	84%	121%	38.33
1992	1.15	10.44%	2,249	0.63%	84%	124%	47.36
1993	1.27	10.68%	2,265	0.71%	84%	136%	45.50
1994	1.33	4.69%	2,344	3.49%	84%	132%	48.95
1995	1.15	-13.91%	2,376	1.37%	84%	112%	38.99
1996	1.46	26.94%	2,440	2.69%	84%	143%	53.97
1997	1.18	-18.98%	2,487	1.93%	85%	114%	41.04
1998	1.21	2.54%	2,574	3.50%	85%	107%	47.44
1999	1.04	-14.30%	2,701	4.93%	88%	91%	38.85
2000	1.02	-1.27%	2,815	4.22%	86%	94%	34.97
2001	0.98	-4.27%	3,028	7.57%	87%	84%	35.16 *
2002	1.04	5.95%	3,257	7.56%	88%	95%	38.12 *
2003	2.02	94.41%	3,494	7.28%	88%	167%	65.67 *
2004	1.64	-18.76%	3,723	6.55%	89%	128%	38.69 *
2005	1.60	-2.65%	4,009	7.68%	90%	123%	44.55 *
2006	1.60	0.51%	4,127	2.94%	90%	123%	45.97
2007	1.63	1.40%	4,202	1.82%	90%	117%	27.02
2008	1.62	-0.21%	4,233	0.74%	90%	128%	43.98
2009	1.87	3.06%	4,253	0.47%	90%	131%	48.61
2010	1.66	-0.56%	4,280	0.63%	91%	129%	39.1
2011	1.76	5.86%	4,303	0.54%	91%	139%	46.19
2012	1.67	-5.28%	4,332	0.67%	91%	140%	35.63
2013	2.03	21.66%	4,366	0.76%	91%	173%	52
2014	2.01	-0.99%	4,368	0.05%	91%	171%	51.6

Highest Average Daily Flow (2007-2011) = 1.67 MGD
 Average Annual Customer Growth (1990 - 2014) = 2.88%

Annual Rainfall Avg. = 43.74 Inches

Warrenton Water and Sewer Capacity Review
Projected Sewer System Demand Calculations

Appendix G

Repairs to the sanitary sewer system are ongoing in an effort to reduce inflow/infiltration (I/I). Flow quantiles have been reduced in the past few years, although the effectiveness of the repairs is not fully known due to recent drought effects.

Not all water usage is directed to the sanitary sewer system as is apparent from data. The difference between the number of water and sewer customers was about 90%, with a sewer/water ratio of 90%. This yields a base sewer/water ratio of about 81%. We will use this ratio in determining the I/I differential. As the water/sewer customer ratio changes, so will the base sewage flow.

Wastewater Treatment Plant capacity is reviewed on a rolling average for three consecutive month periods and must not exceed 95% of rated capacity. Therefore, instead of using average yearly flow data, the highest adjusted sewer/water differentials for three consecutive months from 2004 to 2014 (i.e. February 2010) were determined and the lowest of the three months was used as a base maximum monthly average I/I amount. This I/I is then added to the estimated base sewage flow for determining the projected maximum monthly average sewage flow. It is to be noted that the data from the years 2012 to 2014 has not been included in this analysis due to an excessive amount of I&I related to unusual weather conditions.

April 2011 Highest 3-Month Average Sewage Flow =	2,099,606 gpd	
Apr 2011 Monthly Average Water Produced =	1,303,717 gpd	
Calculated Base Sewage Flow =	81% of Water Produced (90% S/W Customer Ratio and 90% S/W Flow Ratio)	
	1,056,011 gpd	
Base I/I Flow (for Max. Avg. Flow)	1,043,595 gpd	
(from 2011)	For Calcs Use	1,050,000 gpd

Current Potential Sewer Max. Monthly ADF = 2,110,640 gpd (Using Current S/W Customer of 90% and 90% S/W Flow and Base I/I Flow)

Future Wastewater Treatment Plant Capacity

WWTP ADF Capacity =	2,500,000 gpd	
95% of WWTP ADF Capacity =	2,375,000	DEQ Requirement If flows are seen in the range for 3 consecutive months
Current Remaining Sewer Capacity =	264,360 gpd	

Warrenton Water and Sewer Capacity Review
 Projected Sewer System Demand Calculations

Appendix G

Currently proposed development

Number of Currently Proposed ERC	361
Current Demands (per ERC)	97,470 gpd

Estimated Buildout of Town

In Town - Vacant Lot Development

Residential Demands	222,200 gpd	823 Potential Residential Lots @	270 gpd/residence
Commercial/Industrial Demands	105,000 gpd	167 Acres Commercial/Industrial @	630 gpd/acre

In Town - Redevelopment Potential

Residential Demands	17,800 gpd	66 Net Potential Residential Lots @	270 gpd/residence
Commercial/Industrial Demands	24,300 gpd	39 Acres Commercial/Industrial @	630 gpd/acre increase

County - Unserviced Lots Within Commitment Area

Residential Demands	66,200 gpd	245 Potential Residential Lots @	270 gpd/residence
Commercial/Industrial Demands	3,100 gpd	4.85 Acres Commercial/Industrial @	630 gpd/acre

Subtotal - Additional Wastewater at Buildout = 438,600 gpd

Total Est. Wastewater Generated at Buildout of Town & Committed County Area =	2,646,710 gpd
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Estimated Remaining Sewer Water Capacity =	-271,710 gpd	Compared to 95% ADF Capacity
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Warrenton Water and Sewer Capacity Review
 Projected Sewer System Demand Calculations

Appendix G

Growth Projections

Year	ADF (gallons)	ADF (MGD)	Annual Wastewater Growth	Number of Customers	Annual Customer Growth	Capacity (MGD)	95% of Capacity	
1990		1.17		2,229		2.5	2.375	
1991		1.04		2,235		2.5	2.375	
1992		1.15		2,249		2.5	2.375	
1993		1.27		2,265		2.5	2.375	
1994		1.33		2,344		2.5	2.375	
1995		1.15		2,376		2.5	2.375	
1996		1.46		2,440		2.5	2.375	
1997		1.18		2,487		2.5	2.375	
1998		1.21		2,574		2.5	2.375	
1999		1.04		2,701		2.5	2.375	
2000		1.02		2,815		2.5	2.375	
2001		0.98		3,028		2.5	2.375	
2002		1.04		3,257		2.5	2.375	
2003		2.02		3,494		2.5	2.375	
2004		1.64		3,723		2.5	2.375	
2005		1.60		4,009		2.5	2.375	
2006		1.60		4,127		2.5	2.375	
2007		1.63		4,202		2.5	2.375	
2008		1.62		4,233		2.5	2.375	
2009		1.67		4,253		2.5	2.375	
2010		1.66		4,280		2.5	2.375	
2011		1.78		4,303		2.5	2.375	
2012		1.67		4,332		2.5	2.375	
2013		2.03		4,366		2.5	2.375	
Current				4,368		2.5	2.375	
Projected	2014	2,010,000	2.01	0.96	4,368	0.05%	2.5	2.375
Projected	2015	2,010,540	2.011	0.96	4,506	3.16%	2.5	2.375
Projected	2016	2,047,865	2.048	1.00	4,655	3.30%	2.5	2.375
Projected	2017	2,087,978	2.088	1.04	4,808	3.29%	2.5	2.375
Projected	2018	2,129,294	2.129	1.08	4,965	3.28%	2.5	2.375
Projected	2019	2,171,851	2.172	1.12	5,128	3.27%	2.5	2.375
Projected	2020	2,215,683	2.216	1.17	5,295	3.26%	2.5	2.375
Projected	2021	2,260,831	2.261	1.21	5,467	3.25%	2.5	2.375
Projected	2022	2,307,333	2.307	1.26	5,645	3.24%	2.5	2.375
Projected	2023	2,349,000	2.349	1.30	5,827	3.24%	2.5	2.375
Projected	2024	2,349,000	2.349	1.30	6,016	3.23%	2.5	2.375
Projected	2025	2,349,000	2.349	1.30	6,209	3.22%	2.5	2.375
Projected	2026	2,349,000	2.349	1.30	6,409	3.22%	2.5	2.375
Projected	2027	2,349,000	2.349	1.30	6,615	3.21%	2.5	2.375
Projected	2028	2,349,000	2.349	1.30	6,827	3.20%	2.5	2.375
Projected	2029	2,349,000	2.349	1.30	7,045	3.20%	2.5	2.375
Projected	2030	2,349,000	2.349	1.30	7,269	3.19%	2.5	2.375



Wastewater Treatment Plant Plant Capacity Evaluation

Town of Warrenton, VA

Department of Utilities

March 2017



TOWN OF WARRENTON WASTEWATER TREATMENT PLANT CAPACITY EVALUATION

EXECUTIVE SUMMARY

The Town's existing wastewater treatment plant is rated and permitted for 2.5 million gallons per day (MGD) average daily flow (ADF). The plant has undergone several upgrades and expansions since its original construction in the 1950's. Currently, secondary biological treatment is provided by a conventional trickling filter (TF) and a Rotating Biological Contractor (RBC) process which also provides for the required ammonia removal. The most recent major plant upgrade was for Nutrient Removal (total nitrogen and phosphorus reduction) in 2007 – 2009 as part of the Chesapeake Bay Restoration Program.

While the plant has historically performed well, the secondary biological treatment facilities (TF and RBC) are approaching their useful service life and as plant flows may expect to increase in the future, the Town sought to review the current treatment technology and identify improvements to extend the facility's service life and maintain reliable treatment performance.

As such, WRA prepared a Preliminary Engineering report (PER) in July 2016 which recommended the "Moving Bed Bio-Reactor" (MBBR) process as replacement for the TF/RBC process. The MBBR is a newer and more efficient technology that combines the functions of the trickling filter and RBCs into one process tank. In addition, this new process can be readily expanded to handle additional flows and wastewater loads. The design of the MBBR process is now underway with construction expected to begin in the summer of 2017.

As plant flows have gradually increased over the past decade, with monthly average flows sometimes approaching 80-90% of the permitted capacity, the Town has recognized the need to assess the reliable treatment capacity of the existing facilities and, if the treatment capacity can be expanded, what upgrades would be required. The capacity assessment would take into consideration the planned MBBR facilities.

For planning purposes, the Town anticipates the need for an additional 0.50 MGD (20% increase) capacity above the current rated capacity.

This report provides a capacity evaluation of the existing facilities and the upgrades needed to expand and re-rate the treatment capacity to 3.0 MGD average daily flow. In summary, upgrades would include:

- Increase in MBBR tank volume and additional media
- Improvements to the existing Trickling Filter for peak flow storage
- Various yardpiping hydraulic capacity Improvements
- Upgrades to existing Digester No. 2
- Dewatered sludge storage expansion

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Appendix A	Plant Discharge Permit
Appendix B	Existing Site Plan
Appendix C	Wastewater Sampling Data

1 BACKGROUND

The Town of Warrenton owns and operates an advanced wastewater treatment plant currently permitted for 2.5 million gallons per day (MGD). The original plant was constructed in the late 1950's as a single stage 0.5 MGD trickling filter plant followed by an expansion to 1.0 MGD in 1978. A major plant upgrade and further expansion was completed in 1990 to provide a total of 2.5 MGD treatment capacity and to meet effluent limits for Total Kjeldahl Nitrogen (TKN). A rotating biological contactor (RBC) process was added to expand and improve the biological treatment, including a new primary and secondary clarifier. New solids handling facilities were also constructed, including sludge thickening, anaerobic digestion and sludge dewatering. Later, in 1998 the plant was modified again to achieve compliance with effluent ammonia-nitrogen limits by upgrading the RBC units. In 2007, the plant's gas chlorine disinfection system was replaced with a UV-disinfection system, followed by a facility upgrade to comply with nutrient reduction requirements for nitrogen and phosphorus through the Virginia Water Quality Improvement Fund as part of the Chesapeake Bay Restoration program. The plant operates under VPDES permit No. VA0021172, included in **Appendix A**.

The plant has historically performed well and has consistently complied with its effluent permit limits for BOD₅, TSS, ammonia and bacteria (E.coli). In addition, the plant has met nutrient removal requirements for total nitrogen and total phosphorus since the last major plant upgrade in 2007. A single stage trickling filter and conventional rotating biological contactors (RBC) provide for organic (BOD) removal and nitrification (ammonia removal), respectively. As these facilities are approaching their useful service life and as plant flows may expect to increase in the future, the Town sought to review the current treatment technology and identify improvements to extend the facility's service life and maintain reliable treatment performance, both at current and future flows.

At the Town's request, WRA prepared a Preliminary Engineering Report (PER) in July 2016. This report recommended a replacement of the existing trickling filter/RBC biological treatment process with the "Moving Bed Bio-Reactor" (MBBR) process, a newer technology that combines BOD removal and nitrification into one process tank. Similar to the trickling filter/RBC, the MBBR is an attached growth process where the biofilm is attached to small plastic carriers suspended in the wastewater within the reactor tank by process air and/or mechanical mixing. The plastic carriers are retained in the tank by retaining screens while treated wastewater passes through to the (existing) secondary clarifiers.

The MBBR process offers several advantages over the TF/RBC: it provides full treatment within a single tank footprint; it is not susceptible to biomass washout during high flows; it is simple to operate and maintain; it matches well with the existing plant hydraulic gradient; and the treatment capacity can be easily expanded by adding more plastic carriers to the existing tankage. The design phase for the installation of the new MBBR process began in December 2016 and a construction contract is expected to be awarded this summer.

Daily plant flows have gradually increased over the past decade, and have averaged on an annual basis about 2.0 MGD in recent years. The plant has also experienced consecutive months with monthly average flows near 90% of the current permitted flow of 2.5 MGD. After discussions with staff and an evaluation of current performance it was deemed reasonable that the current capacity could increase to 3.0 MGD. The Town anticipates that an additional average daily flow of up to 0.50 MGD (20% increase), above the current permitted flow, may be needed in the foreseeable future based on the 2015 Utility Capacity Report, which projected community build-out to exceed the current 2.5 MGD plant capacity.

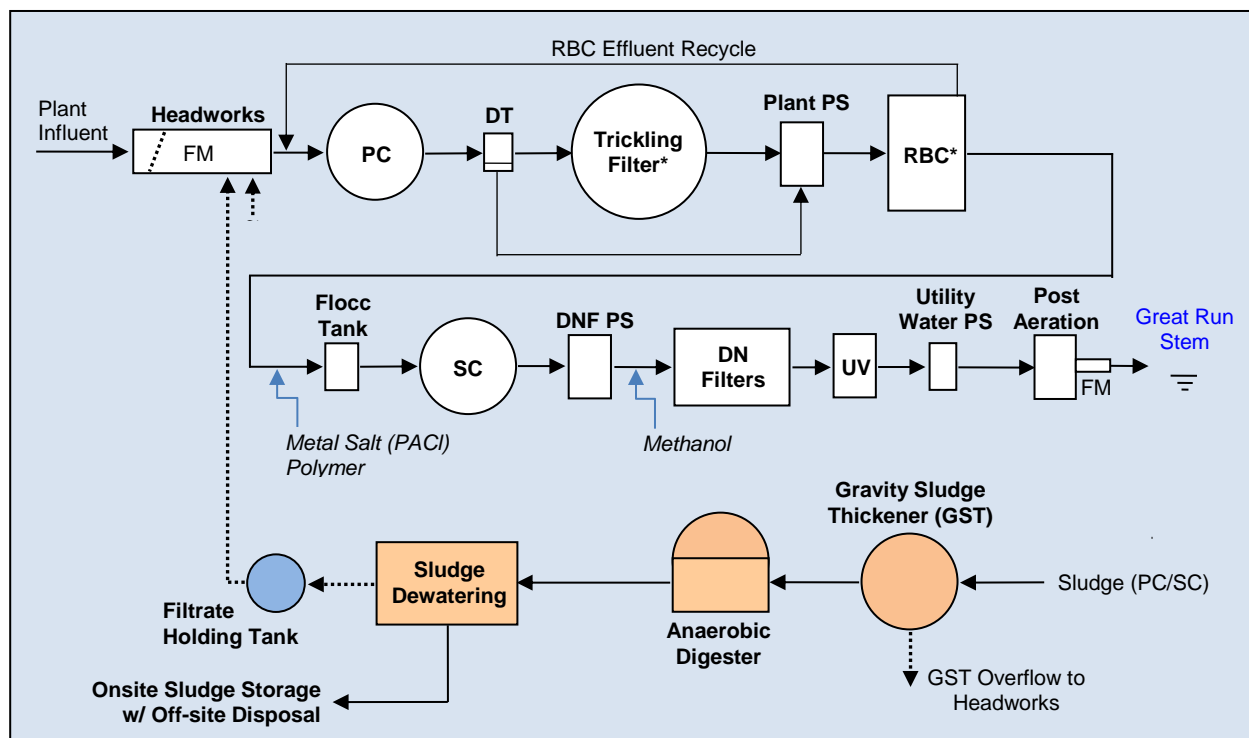
This report serves as a planning document for a capacity re-rating of the existing plant to 3.0 MGD average daily flow (ADF), taking into consideration maximizing the MBBR process and other improvements. The report includes an evaluation of the existing facilities and summarizes the recommended upgrades to the existing plant if the treatment capacity is to increase to 3.0 MGD.

It should be noted that if the plant's permitted flow capacity is increased it is not expected that the current waste load allocations will, but rather fixed at the current levels. As such, plant (biological) treatment performance, or removal efficiency, will be more rigorous. While this is feasible up to the 3.0 MGD ADF, an expansion in capacity beyond this level would most likely require additional treatment technologies, with more operational complexity and disproportionate higher cost.

2 EXISTING TREATMENT FACILITIES

2.1 Existing Process Configuration

The current plant process flow is illustrated and described below.



Warrenton WWTP - Existing Process Flow Diagram (* to be replaced with the new MBBR process).

Raw wastewater from the Town's collection system enters the preliminary treatment works which include mechanical screening, aerated grit removal and influent flow metering (FM). Metered flow is conveyed via gravity to the primary clarifiers (PC). Primary effluent flows to a dosing tank (DT) and into a single stage trickling filter (TF) for BOD removal. Due to hydraulic constraints in the influent piping to the TF the dosing tank has an overflow weir that allows partial by-pass of primary effluent. The TF influent line has a manually operated valve for control of flow to the TF. Effluent from the TF and overflow from the dosing tank enter the intermediate plant pumping station where all flows are pumped to the Rotating Biological Contactors (RBCs). The RBCs include three parallel process trains, each with seven stages, and provide nitrification to comply with the plant's effluent ammonia limits. RBC effluent flows to the secondary clarifiers for suspended solids removal. A mixing/flocculation tank is provided upstream of the secondary clarifiers for addition of chemicals for phosphorus removal and improved solids removal. A portion of the RBC effluent is recycled to the primary clarifier influent to maintain adequate flow to the TF (media wetting). Secondary (nitrified) effluent is conveyed to the denitrification (DN) pumping station and pumped to the tertiary denitrification (DN) filters for total nitrogen removal

and for additional phosphorus and solids removal. Spent backwash water from the denitrification filters is discharged to the intermediate plant pumping station. Denitrified filter effluent flows through the UV-disinfection reactors, followed by mechanical post aeration and effluent flow metering (FM) before final discharge to Great Run, a tributary to Rappahannock River. Non-potable plant reuse water is drawn after UV-disinfection.

Sludge from the primary and secondary clarifiers is pumped to the gravity sludge thickener (GST). Thickener overflow is returned to the primary influent and thickened sludge is pumped to the primary anaerobic digester. Digested sludge is stored in the secondary digester before the sludge is dewatered with a belt filter press. Dewatered sludge is stored onsite and periodically hauled out for land application through contract operations. Filtrate, which is high in ammonia, is stored in an adjacent holding tank and returned (equalized) at a low constant rate to the primary influent.

The Moving Bed Bio-Reactor (MBBR) process, currently under design, will replace the existing trickling filter and RBCs. Primary clarifier effluent will be pumped to the MBBR process.

The following **Table 1** provides a summary of the existing plant unit processes. The existing site facilities are shown in **Appendix B**, including the proposed MBBR facilities.

Table 1: Summary of Existing Unit Processes

Process Unit	Qty.	Unit Sizing
LIQUID TREATMENT:		
Mechanically Cleaned Influent Screen	1	¼-inch screen; rated for 5.0 MGD peak flow By-pass channel w/ manual bar rack
Grit Removal	2	Aerated Grit Chambers, each 3.5' W x 25' L x 5.5' D (480 ft ³)
Influent Flow Meter	1	12-inch Parshall Flume; flow measuring capacity: 3' D (11.3 MGD)
Primary Clarifiers	2 2	No. 1 and 2: 26' diameter x 10.5 SWD (530 ft ² each) No. 3 and 4: 34' diameter x 10.5 SWD (900 ft ² each) – total (2,860 ft ²)
Trickling Filter*	1	125' diameter x 5' media depth Media: Plastic XF-60, 48 ft ² /ft ³ ; total media AS (2,943,750 ft ²)
Intermediate Plant Pumps	4	Each 1,800 gpm @ 55' TDH; 40 HP w/VFD
Rotating Biological Contactors* (RBC)	21	3 trains, each 7 RBCs RBC stages 1, 2 and 3: 100,000 ft ² per train RBC stages 4, 5 and 6: 150,000 ft ² per train RBC stage 7: 85,000 ft ² per train Total all stages: 835,000 ft ² per train; 2,505,000 ft ² all trains 5 HP RBC drives Aeration Blowers: 2 units, each 60 HP.
*New MBBR Replacement Process	2	2 trains, each train w/three (3) zones (BOD/Nitrification (2 zones)) Volume: 400,000 per train; 800,000 total (15 ft side-water depth) Media: 800 m ² /m ³ (40% media fill ratio) Aeration Blowers: 3 units, each 2,200 scfm, 125 HP
Flash Mixing	1	7.5 HP Mixer w/VFD Flash Mixing Tank Volume: 1,500 gallons
Flocculation Tanks	2	0.5 HP Flocculators w/VFD Flocculation Tank Volume: 17,900 gallons, each
Chemical Storage and Feed	2 2 1 2 1 2	Poly-aluminum Chloride Storage Tanks: 6,000 gallons each Poly-aluminum Chloride Feed Pumps: 25 gal/hr each Polymer Storage Tank: 900 gallons Polymer Feed Pumps: 20 gal/hr each Methanol Storage Tank: 11,800 gallons Methanol Feed Pumps: 25 gal/hr each
Secondary Clarifiers	1 1	No. 1: 64' diameter x 12' SWD (3,215 ft ²) No. 2: 50' diameter x 12' SWD (1,960 ft ²)
Denitrification Filter Pumps	4	2,200 gpm @ 29' TDH; 30 HP w/VFD
Denitrification Filters	4	Filter cells: 11.33' W x 26.83' L x 6' media depth; filter area each 304 ft ² (2) Backwash submersible pumps; 1,824 gpm @ 27' TDH; 25 HP each (2) Low pressure air scour blowers; 1,520 scfm @ 11 psig; 125 HP each
UV Disinfection	2	14" in-line UV reactors; medium pressure/high intensity; 5 MGD each
Plant Reuse Water Pumps	2	370 gpm @160' TDH; 20 HP
Post Aeration Tanks	2	Each Tank: 15' L x 15' W x 11' D (total volume 37,000 gallons)
Effluent Flow Metering	1	12-inch Parshall Flume; flow measuring capacity: 3' D (11.3 MGD)
SOLIDS HANDLING:		
Primary Sludge Pumps	2	50 gpm; 3 HP each
Secondary Sludge Pumps	2	240 gpm; 7.5 HP each
Gravity Thickener	1	28' diameter x 12' SWD (52,000 gallons); (615 ft ² surface area)
Anaerobic Digesters	2	Digester No. 1: 50' dia.; 20' SWD; 290,000 gallons (digestion) Digester No. 2: 40' dia., 20' SWD; 185,000 gallons (sludge holding)
Belt Filter Press	1	1-meter press 30,000 filtrate holding/equalization tank

2.2 Plant Influent Wastewater Loads

The plant does not routinely sample and analyze influent wastewater. However, in preparing the July 2016 Preliminary Engineering Report a two-week sampling program was conducted in March 2016 to characterize the influent and establish wastewater loads for preliminary design. Grab samples were collected just upstream of the influent flow meter (after screening and grit removal) three times a day, at the beginning of each shift, and then composited. The composite samples were analyzed for five-day biochemical oxygen demand (BOD₅), total suspended solids (TSS), total Kjeldahl nitrogen (TKN), ammonia and total phosphorus (TP). Influent alkalinity (CaCO₃) was also measured. In addition, side stream ammonia and TKN were measured from the belt filter press filtrate holding tank as the dewatering filtrate from anaerobically digested sludge typically has high ammonia concentration.

The sampling was targeted during a period with minimum precipitation to obtain dry weather baseline wastewater characteristics. Concentrations for BOD₅ ranged from 123 to 295 mg/L; TSS from 61 to 144 mg/L; TKN from 24 to 34 mg/L; and the average alkalinity was 145 mg/L (CaCO₃). These are all within the range of typical domestic wastewater. The average daily wastewater flows for the sampling period varied from 1.76 to 2.36 MGD. **Table 2** shows the representative primary influent wastewater concentrations based on the sampling data for plant influent and side stream flow from the filtrate holding tank. The TKN and ammonia recycle loads from the dewatering process account for about 15% and 25%, respectively, of the plant influent. The sampling results are included in **Appendix C**.

Table 2: Influent Wastewater Concentrations (mg/L)

	BOD ₅	TSS	TKN	NH ₃ -N	TP	Alkalinity
Plant Influent	200	100	30	20	4.0	145
BFP Filtrate*			333	294		
Primary Influent	200	100	35	25	5.0	145

*Average side stream flow at 20 gallons per minute (gpm).

Supplemental wastewater sampling was also conducted back in 2006 (during March) prior to the nutrient removal upgrade design. The recent 2016 sample data are similar to the wastewater characteristics obtained at that time. The 2006 data is also included in **Appendix C** for reference.

2.3 Plant Flows

Plant flows are recorded via the influent flow meter. **Figure 1** shows the historical daily average flows for 2013, 2014, 2015 and 2016, and the 30-day moving average flow. **Figure 2** shows the recorded daily maximum (peak hour) flow for the same period. For wastewater loads and treatment capacity evaluations the maximum month flow factor is used, while the peak (hour) flow factor is used for review of plant hydraulics. **Table 3** shows the annual average flow for the last three years, the corresponding maximum month (30-day) flow and maximum month to average month factor. The total annual rainfall (inches) is also listed, showing higher plant flows during relatively wet years (2013 and 2014).

Table 3: Historical Plant Flows (MGD) and Rainfall

	Annual Average Flow	Maximum Month Flow	MM/AA Factor	Annual Total Rainfall
2013	2.03	2.42	1.18	51.9"
2014	2.01	2.60	1.30	47.6"
2015	1.86	2.20	1.18	42.4"
2016	1.73	2.18	1.26	37.3"
Average	1.91		1.2	

The plant annual average flow for the period 2013-2016 was about 1.9 MGD. The maximum month peak factor to be used in the evaluations is 1.2 (20% above annual average flow). The maximum (peak) day flows recorded for the period is about 6 MGD corresponding to a peak flow factor of 3.0. These flow factors are similar to the factors used in the 2005 Preliminary Engineering Report prepared (by WRA) prior to the Nutrient Removal Upgrade design.

It is noted that the influent flow chart maxes out at 6 MGD and flows above this rate are not recorded. **Figure 2** shows that peak flows capped at 6 MGD occurred 10-12 times during the 2013-2016 period, typically associated with high rainfall intensity. The plant has handled these peak flows without overflow incidents. It is suspected that some flow attenuation/temporary backup may occur in the trickling filter, but due to the TF being covered this is difficult to verify. It is also noted during extreme wet weather events the upstream collection system Cedar Run Pump Station surcharges into the holding lagoon for temporary storage. The lagoon is drained back to the pump station and pumped to the WWTP during lower flows. Despite higher observed peak flows, a peak factor of 3.0 is used in this evaluation. However, wet weather flow management will need to be addressed in a plant re-rating scenario. It is noted that Town has made continuous efforts with I/I studies and evaluations on its collection system to identify deficiencies and address sub-areas subject to high inflow.

2.4 Plant Effluent Performance

Under the current effluent discharge permit (**Appendix A**) the plant is required to comply with monthly and weekly limits for concentration and wastewater loads for BOD₅ and TSS, and to comply with monthly and weekly concentration limits for ammonia-nitrogen. For nutrients, the permit requires a calendar year average effluent concentration of 4.0 mg/L, or less for total nitrogen (TN) and 0.3 mg/L or less for total phosphorus. There is a corresponding annual load allocation for TN (30,456 lbs) and TP (2,284 lbs) based on the permitted average daily flow of 2.5 MGD. **Table 4** shows the discharge permit limits.

Table 4: Current Plant Discharge Permit Limits (at 2.5 MGD ADF)

Parameter	Monthly Average	Weekly Average
Flow = 2.5 MGD		
BOD ₅	10 mg/L (95 kg/d)	15 mg/L (140 kg/d)
TSS	10 mg/L (95 kg/d)	15 mg/L (140 kg/d)
Ammonia-N	1.4 mg/L	1.7 mg/L
	Calendar Year Average	Annual Load Allocation
Total Nitrogen	4.0 mg/L	30,456 lbs
Total Phosphorus	0.3 mg/L	2,284 lbs

The graphs on **Figures 3A, 3B, 4A and 4B** show the historical monthly and weekly effluent concentrations for BOD₅ and TSS for 2013-2016 which are well below the permit limits. For ammonia-nitrogen (**Figures 5A and 5B**), the monthly and weekly effluent concentrations are averaging less than 0.5 mg/L, with the exception of a period between October 2013 and March 2014 during which the trickling filter was offline for repairs for an extended time. During this time full BOD₅ removal was shifted to the RBC process resulting in reduced nitrification capacity and higher effluent ammonia levels. This resulted in effluent ammonia concentrations for November 2013 and January 2014 that exceeded the monthly and weekly limits. Once the trickling filter was brought online, the nitrification capacity was restored and effluent ammonia concentrations improved.

Table 5 shows the calendar year average effluent concentrations for total nitrogen and total phosphorus for 2013-2016, well below the permit requirements for nutrient discharge. **Figures 6 and 7** shows the monthly concentrations. **Table 5** also shows the nitrogen fractions (ammonia, nitrate and organic-N).

Table 5: Annual Average Plant Effluent for Nitrogen and Total Phosphorus (mg/L)

	Annual Average Flow	Total Nitrogen (TN)	Total Kjeldahl Nitrogen (TKN)	Nitrate Nitrogen (NO ₃)	Ammonia Nitrogen (NH ₃)	Organic Nitrogen (Org-N)	Total Phosphorus (TP)
2013	2.03 MGD	3.5	1.4	2.1	0.47	0.93	0.15
2014	2.01 MGD	3.4	1.3	2.1	0.49	0.81	0.21
2015	1.86 MGD	3.3	1.5	1.8	0.22	1.28	0.20
2016	1.73 MGD	3.1	1.3	1.8	0.16	1.14	0.26

3 PLANT CAPACITY EVALUATION

3.1 Basis for Evaluation

This section discusses a re-rating of the existing plant capacity for an average design flow of 3.0 MGD and the improvements needed to the treatment processes. The review considers the average day and maximum month wastewater loadings for the liquid treatment and solids handling process, and peak flows where applicable, such as clarifier overflow rates, intermediate plant pumping and overall plant hydraulics. From the previous review of historical plant flows the design maximum month (MM) flow is assumed 20% higher than the average month. The design peak (hour) hydraulic flow is based on the observed peak-to-average ratio of 3.0. **Table 6** shows the design flows and wastewater characteristics used for the plant re-rating evaluation. The wastewater concentrations are based on the recent influent sampling data.

Table 6: Flows and Influent Wastewater Concentrations for Plant Capacity Eval.

ADF (MGD)	MM (MGD)	Peak (MGD)	Primary Influent (mg/L)					
			BOD ₅	TSS	TKN	NH ₃ -N	TP	Alkalinity
3.00	3.60	9.00	200	100	35	25	5.0	145

3.2 Effluent Requirements for Plant Re-rating

The capacity review considers the effluent limits in the plant’s current discharge permit and assumes that the current permitted waste load allocations will need to be maintained (this may be subject to review and discussion with VADEQ permit compliance group). As such, more stringent effluent concentrations for the permit parameters would be required at an ADF re-rating scenario to 3.0 MGD. **Table 7** shows the anticipated effluent concentrations for BOD₅, TSS, nitrogen and phosphorus under a re-rating scenario.

Table 7: Effluent Limits at Current Capacity, and Requirements at 3.0 MGD ADF

Parameter	Monthly Average*		Weekly Average*	
	Average Design Flow	2.5 MGD	3.0 MGD	2.5 MGD
BOD ₅	10 mg/L	8.3 mg/L	15 mg/L	12.5 mg/L
TSS	10 mg/L	8.3 mg/L	15 mg/L	12.5 mg/L
Ammonia-N	1.4 mg/L**		1.7 mg/L**	
	Calendar Year Average		Annual Load Allocation	
Average Design Flow	2.5 MGD	3.0 MGD		
Total Nitrogen	4.0 mg/L	3.33 mg/L	30,456 lbs	
Total Phosphorus	0.3 mg/L	0.25 mg/L	2,284 lbs	
* The effluent concentration limits are based on fixed waste load allocations ** Assume effluent concentration limits remain (no waste load allocation for ammonia)				

For BOD₅ and TSS the plant has historically performed well. Meeting more stringent monthly and weekly effluent concentrations as shown in Table 7 for 3.0 MGD ADF scenario is attainable with the new MBBR process (as well as the current secondary and tertiary processes), provided that the treatment capacity (in terms of flow) is adequate.

Since the permit has an ammonia concentration limit but no associated mass loading, the current monthly and weekly average ammonia limits (1.4 mg/L and 1.7 mg/L) are expected to remain even if the permitted design flow is increased, unless specific ammonia driven effluent toxicity issues should arise.

Under the Chesapeake Bay Restoration program Warrenton WWTP has been required to remove nutrients since the 2007 nutrient removal upgrade. Plant discharge cannot exceed the total annual mass load for total nitrogen (30,456 lbs) and total phosphorus (2,284 lbs), as shown in **Table 7**. In a re-rating scenario, it is unlikely that a corresponding increase in the annual mass loading would be allowed and the plant will need to perform at proportionally lower effluent concentrations. While the plant's current nutrient removal technology can produce a high quality effluent, as plant records demonstrate, a flow increase will gradually require tighter operational performance. But, since there is no permit specific monthly or weekly *concentration* limits for TN and TP the plant does have some flexibility over the course of the calendar year to reliably meet the total annual based mass loading. Likewise, maximizing the planned MBBR process combined with the existing denitrification filters can also achieve the more stringent operation performance. However, an increase in the average design flow beyond 3.0 MGD would become much more challenging with regard to nutrient removal and could require additional and costly technology upgrades.

Table 7 shows that the annual TN concentration equivalent is 3.33 mg/L at 3.0 MGD ADF. Total nitrogen is the sum of TKN (ammonia + organic nitrogen) and nitrate/nitrite. To meet the effluent TN requirement, each of these parameters (ammonia, organic-N and nitrate) need to be targeted at 1 mg/L or less based on Best Available Technology (BAT). **Table 5** shows the annual average nitrogen effluent concentrations for 2013, 2014, 2015 and 2016. Ammonia is at 0.5 mg/L or less, remaining organic nitrogen is about 1.0 mg/L, which is considered mostly non-biodegradable (refractory), and the nitrate is about 2 mg/L. The MBBR process can be designed to achieve these low ammonia/organic nitrogen levels. The effluent nitrate concentration will need to be trimmed. Per discussions with plant operations, the nitrate levels are controlled based on economical methanol dosing while still targeting an overall effluent TN level below 4 mg/L. Nitrate can be further reduced through a slight increase in methanol dose (without impacting effluent BOD).

The following section reviews each process unit and the anticipated upgrades required at an Average Design Flow of 3.0 MGD.

4 LIQUID TREATMENT FACILITIES

4.1 Preliminary Treatment (Headworks)

4.1.1 Influent Screening

A new mechanical screen (1/4") system was recently installed in the existing influent channel and is rated for a peak flow of 5 MGD. At higher flow conditions the existing by-pass channel and manually cleaned bar rack may handle excess flows from the main channel. No improvements are anticipated.

4.1.2 Grit Removal

The existing aerated grit chambers satisfy the Virginia Sewage Collection and Treatment (SCAT) requirements for minimum detention time (3 min) at average flow (both chambers in service) for 3 MGD ADF. No improvements are anticipated.

4.1.3 Influent Flow Metering

The existing 12-inch Parshall flume has adequate flow measuring capacity for average and peak flows.

4.2 Primary Clarifiers

The existing four (4) primary clarifiers include two (2) 26-ft diameter units and two (2) 34-diameter units, with a total surface area of 2,870 ft². The SCAT regulations indicate that the surface overflow rate (SOR) should not exceed 1,000 gpd/ft² at average design flow and 2,500 gpd/ft² for peak flow, and the hydraulic retention time (HRT) should be minimum 2 hours at average design flow. At 3.0 MGD average design flow scenarios, the SOR is 1,040 gpd/ft², all units online, with an HRT of about 1.8 hours which is consistent with the SCAT recommendations. At peak design flows (9 MGD) the SOR is 3,100 gpd/ft², which is about 20% higher than the SCAT recommendations. Other conventional design standards recommend between 2,000 and 3,000 gpd/ft² for peak SOR.

Rather than providing additional primary clarifier capacity, it is recommended that by-pass of excess peak flows around the primary clarifier be considered to bring the surface overflow rates for the clarifiers within the range of the SCAT recommendations and conventional design. The excess flow by-pass could be provided via an overflow weir in the existing primary flow split box. At the peak design flow rate of 9.0 MGD about 2 MGD would need to be by-passed.

4.3 Secondary Biological Process – *proposed Moving Bed Bio-Reactor (MBBR) Process*

Based on the recommendations in the July 2016 Preliminary Engineering Report, the new MBBR process is currently being designed to replace the treatment function of the trickling filter and RBCs, providing for both BOD removal and nitrification at the current plant capacity of 2.5 MGD. The MBBR system can be sized to facilitate a future increase in treatment capacity. The higher capacity can be achieved by expanding the (concrete) tank volume to accommodate an increase in the amount of total carrier media.

4.4 Intermediate Plant (RBC) Pumping Station

The intermediate pumping station pumps trickling filter effluent to the RBC process via a 16-inch force main. With the new MBBR process the force main line will be extended to the MBBR influent chamber (new 20-inch line extension). The submersible pumps were recently upgraded to larger units. With the new MBBR process the peak pumping

capacity is estimated at about 8 MGD with three of the four pumps operating, and about 10 MGD with all units in service. As such, additional pumping capacity should not be needed.

4.5 Secondary Clarifier Mixing/Flocculation Tanks

Poly-aluminum chloride (PACl) and anionic polymer are fed prior to the secondary clarifiers for chemical phosphorus removal and improved TSS removal. The chemical feed systems and mixing/flocculation tanks are adequate. There will be a slight reduction in the number of days of chemical storage as the chemical feed rate would increase with increased flows.

4.6 Secondary Clarifiers

The two existing secondary clarifiers include one 64 feet diameter unit and one 50 feet diameter unit, each with 12-ft sidewater depth, and with a total surface area of 5,180 ft². The clarifier depth is within the recommended range. The SCAT regulations indicate that the surface overflow rate (SOR) should not exceed 500 gpd/ft² and 1,200 gpd/ft² at average and peak flows, respectively, for clarifiers following an attached growth biological process. Also, the SCAT regulations indicate that for conventional clarifiers used with chemical clarification, the design SOR shall not exceed 600 gpd/ft². At 3.0 MGD average design flow, the SOR is 580 gpd/ft², all units online, which is consistent with the SCAT recommendations. At peak design flows (9 MGD) the SOR is 1,740 gpd/ft². The estimated solids loading rates (SLR) based on MBBR effluent are well below the SCAT criteria for attached growth processes (SCAT criteria: 0.6-1.0 lbs/ft²/hr at average design; 1.6 lbs/ft²/hr at peak loading).

At design peak flows the surface overflow rates exceed the SCAT criteria for the existing clarifiers. Rather than adding new clarifiers it is recommended that the existing trickling filter be retrofitted for excess flow storage during peak wet weather conditions, since the trickling filter will no longer be required for treatment with the new MBBR process. The trickling filter has an estimated usable storage volume of about 350,000 gallons (the trickling filter media would be removed). This volume would be more than adequate to reduce the peak flow rate through the plant to minimize the hydraulic impact on the secondary clarifiers and other process units. Alternatively, the RBC tankage could also be used for peak flow storage (remove the RBC units) where a portion of the flow from the Plant Pump Station can be diverted for temporary storage prior to the MBBR. The storage volume available in the RBC tanks is about 250,000 gallons.

It should be noted that it is not recommended to partially by-pass the secondary clarifiers during peak flow events as this could result in excessive solids loading on the denitrification filters.

4.7 Denitrification Filter (DNF) Pumping Station

The DNF pumping station was constructed as part of the 2007 Nutrient Removal Upgrade. It pumps secondary nitrified effluent to the tertiary denitrification filters. The pumping station is designed for a peak flow of 9.6 MGD (with three pumps online and one pump off line). The station has (emergency) overflow provision to allow flows to by-pass the DNF facility and be conveyed via gravity to UV-disinfection. No upgrades to the pumping station will be required.

4.8 Tertiary Denitrification Filters

Nitrates in the effluent from the RBC (nitrification) process are denitrified in the tertiary denitrification filters, installed in the 2007 Nutrient Removal Upgrade, to provide total nitrogen removal and effluent phosphorus polishing. External carbon (methanol) is added to the process. The facility includes four deep-bed (4) filters, each 11.5ft W x 26ft L with 6 feet media depth. Each filter area is nominally 300 ft², or 1,200 ft² total with all filters online.

At 3.0 MGD ADF the hydraulic filter loading and volumetric nitrate loading would be about 1.8 gpm/ft² and up to 55 lbs-nitrate/1,000 ft³/day, which are within conventional deep bed DN filter design criteria. During maximum month conditions where the filter loading is higher, the denitrification performance (and TN removal) may be slightly lower. However, there is no monthly permit limit and it would not affect the ability to meet the annual nitrogen mass load limit. The filter peak hydraulic loading (at 9 MGD) would be about 5 gpm/ft² which is also acceptable. Thus, the filter capacity is adequate and no additional filters or other upgrades are required for 3.0 MGD ADF. The methanol facility has adequate storage and feed capacity.

4.9 Effluent Disinfection

Prior to the 2007 Nutrient Removal Upgrade the gas chlorination/dechlorination facilities were replaced with an ultra-violet (UV) disinfection system. The system includes two parallel 14-inch in-line UV Reactors located in a below-grade vault. Each reactor is rated for 5 MGD. There is provision to add a future third unit which will require a new below-grade vault and connection to existing piping.

At current conditions, one UV Reactor is operating at average flows and the second reactor is turned on at higher flows. The SCAT regulations require that if no more than two UV banks are provided, each UV bank shall be capable of disinfecting the maximum daily flow (not peak flow). Based on plant records for 2013 - 2016, the ratio of maximum daily-to-average flow is about 1.6. Thus, at 3.0 MGD ADF, the maximum daily flow is projected at 4.8 MGD, less than 5 MGD. Therefore, unless otherwise required by VADEQ, the need for an additional UV unit is not anticipated at 3.0 MGD ADF.

The current two-reactor configuration has a hydraulic capacity greater than 10 MGD (with both reactors online). An increase in the hydraulic gradient, due to additional head-loss across the UV reactors at higher flows, is adequately contained within the DN filter effluent clear-well.

4.10 Post Aeration

The existing post aeration tanks are provided with mechanical surface aerators to meet the permit requirements for dissolved oxygen in the final effluent. The existing tank volume provides adequate detention times at average and peak flows based on conventional design (there are no specific SCAT criteria).

4.11 Effluent Flow Metering

The existing 12-inch Parshall flume can adequately measure the maximum flows.

5 SOLIDS HANDLING FACILITIES

For 2013 – 2016, plant operating records show the average sludge flow (primary and secondary) from the gravity thickener to Digester No. 1 is about 15,000 gallons per day. The average solids concentration is around 2.6%, thus approximately 3,250 lbs/day total sludge is generated based on an average daily plant flow of 2.0 MGD for the same period. As plant flows increase it is assumed there will be a proportional increase in sludge generation. **Table 8** shows planning level estimates for sludge quantities at current and higher average plant flows. Maximum month sludge quantities are assumed 20% higher than average.

Table 8: Total Estimated Sludge Quantities (lbs/day)

	Current (2.0 MGD)	Permit ADF (2.5 MGD)	3.00 MGD
Average Month	3,250	4,060	4,875
Maximum Month	3,900	4,870	5,850

5.1 Sludge Pumping

The existing pumping equipment for primary and secondary sludge is adequate. The pump operating times may increase slightly at higher plant flows or solids loadings.

5.2 Gravity Thickening

Primary and secondary sludge is co-thickened in the existing 28 ft diameter gravity sludge thickener which has a side water depth of 12 ft. Conventional gravity thickener surface overflow rates and solids loading rates for combined primary and secondary sludge range from 150 – 300 gpd/ft² and 5 – 10 lbs/ft²/day, respectively. With an estimated primary/secondary sludge feed rate of about 80,000 gallons per day (based on 0.5% solids concentration and current average sludge quantity) and 15,000 gallons per day sludge underflow (to Digester No. 1), the current average thickener overflow is 65,000 gpd, with a resulting surface overflow rate of about 105 gpd/ft². The solids loading rate is about 5.3 lbs/ft²/day based on **Table 8**. At the 3.0 MGD ADF scenario, the overflow rate is estimated at about 160 gpd/ft² and the solids loading rate is about 8 lbs/ft²/day. These rates are within the range of conventional design standards for gravity co-thickening. Therefore, improvements to the gravity sludge thickener are not anticipated.

5.3 Anaerobic Digestion

Thickened sludge is digested and stabilized in existing Anaerobic Digester No.1. Digester No. 2 is used for digested sludge holding, with no mixing or heating provided, prior to sludge dewatering (two-stage digestion). The solids concentration in Digester No. 1 is typically 1-2.5%. The digesters require adequate capacity (volume, heating and mixing) to meet the sludge stabilization requirements (per EPA Part 503), i.e. solids retention time (SRT) of 15 days and volatile solids reduction of 38% or greater. At the projected sludge quantities and with typical volatile solids loading rates, it is anticipated that Digester No. 2 at some point will need to be in service to meet the sludge stabilization requirements. Therefore, upgrades including mixing, heating and other necessary retrofit, will be required for Digester No. 2.

A few years ago, Digester No. 1 was taken offline for cleaning and inspection. Removal of inert solids and other debris, built up over many years, will improve the capacity of Digester No. 1. This may allow sufficient interim capacity, and could defer additional upgrades to Digester No. 2 until flows are near 3.0 MGD ADF.

5.4 Sludge Dewatering and Storage

The old belt filter press (BFP) was recently replaced with a new 1-meter belt press for dewatering digested sludge. Dewatering operation is on week-days during normal shift hours, 50 – 60 hours/week, processing about 15 – 20,000 gallons per day with a sludge feed rate of 40 – 50 gpm. Based on the projected sludge quantities at 3.0 MGD ADF an increase in BFP operating time is expected, however, no additional dewatering capacity is anticipated. The dewatering filtrate, which is high in ammonia, is stored and equalized in a 30,000 gallon tank and returned to the primary influent at a controlled rate to equalize the nitrogen recycle load to the plant. The existing holding/equalization tank is adequate.

Dewatered sludge/biosolids is stored on-site and periodically hauled out for off-site land application through contract operations. If extended wet seasons occur and haulers cannot land apply the biosolids, the on-site storage capacity becomes limited. As such, it is anticipated that additional dewatered sludge storage capacity will be needed.

6 PLANT HYDRAULICS

The existing plant was designed with a maximum hydraulic capacity of 5 MGD (based on the 1990 upgrade), although the plant has historically experienced higher flows. In 2013 and 2014 peak flows frequently exceeded 5 MGD associated with significant wet weather events. As part of the UV-Disinfection and Nutrient Removal upgrades in 2007 some of the previous hydraulic restrictions in the plant were eliminated, however, the existing hydraulic conveyance capacity between certain process units may still be limited at the peak flows associated with 3.0 MGD ADF. As mentioned in section 4.2, a partial by-pass around the primary clarifiers during the highest peak flow conditions and using the existing trickling filter as excess flow storage should alleviate most of the downstream potential plant hydraulic restraints. The trickling filter would be modified to serve as temporary flow storage (removing the media and rotary piping).

7 COST EVALUATION

Table 9 summarizes the foregoing existing plant capacity review and the upgrades considered for a plant re-rating to 3.0 MGD Average Daily Flow (ADF).

Table 9: Summary of Plant Capacity Review

Process Unit	Capacity at 3.0 MGD ADF	Improvements Needed
Influent Screen / Grit Removal / Flow Metering	OK	None
Primary Clarifiers	OK for ADF; stressed at peak flow conditions	Provide excess peak flow by-pass / storage / flow equalization in ex. trickling filter
TF/RBC	Replaced by planned new MBBR Process	Retrofit the trickling filter (or RBCs) for excess peak flow storage/equalization
Proposed MBBR Process (2 parallel process trains)	OK for 3.0 MGD with both trains online, but needs additional redundancy	Expand tankage and increase amount of biofilm carrier media to ensure reliable treatment capacity
Intermediate Plant PS	OK	None
Secondary Clarifiers	OK for ADF; stressed at peak flow conditions	Provide peak flow by-pass upstream via the existing trickling filter (see above)
DNF Pump Station	OK	None
DN Filters	OK	None
UV-Disinfection	OK	None
Post Aeration / Effluent Flow Metering	OK	None
Plant Hydraulics	Potential hydraulic constraints at peak conditions	Provide peak flow by-pass upstream via the existing trickling filter (see above)
Gravity Sludge Thickening	OK	None
Anaerobic Digestion	OK near term	Anticipated upgrades to Digester #2
Sludge Dewatering	OK	Increase operating hours of Belt Filter Press
Dewatered Sludge Storage	Deficient storage during limited field application periods	Expand storage capacity

Planning level cost estimates (2017 dollars) for a plant expansion to 3.0 MGD Average Daily Flow (ADF) is listed in **Table 10**. Costs are shown based on anticipated fiscal year expenditures for facility improvements.

Table 10: Estimated Planning Level Costs of Plant Expansion to 3.0 MGD ADF

Item	Planning Level Cost	FY
Liquid Treatment		
Additional MBBR Tank Volume and Media	\$450,000	17, 18, 19
Plant Hydraulics		
Retrofit ex. Trickling Filter for Peak Flow Storage	\$100,000	22
Yardpiping Improvements	\$150,000	22
Solids Handling		
Upgrades to ex. Digester No. 2	\$500,000	20
Sludge Storage Expansion	\$80,000	23
Sub-Total		
Contingency (25%)		
Engineering and Administration (15%)		
Total		

Figures

FIGURE 1
Daily Plant Influent Flows 2013 - 2016

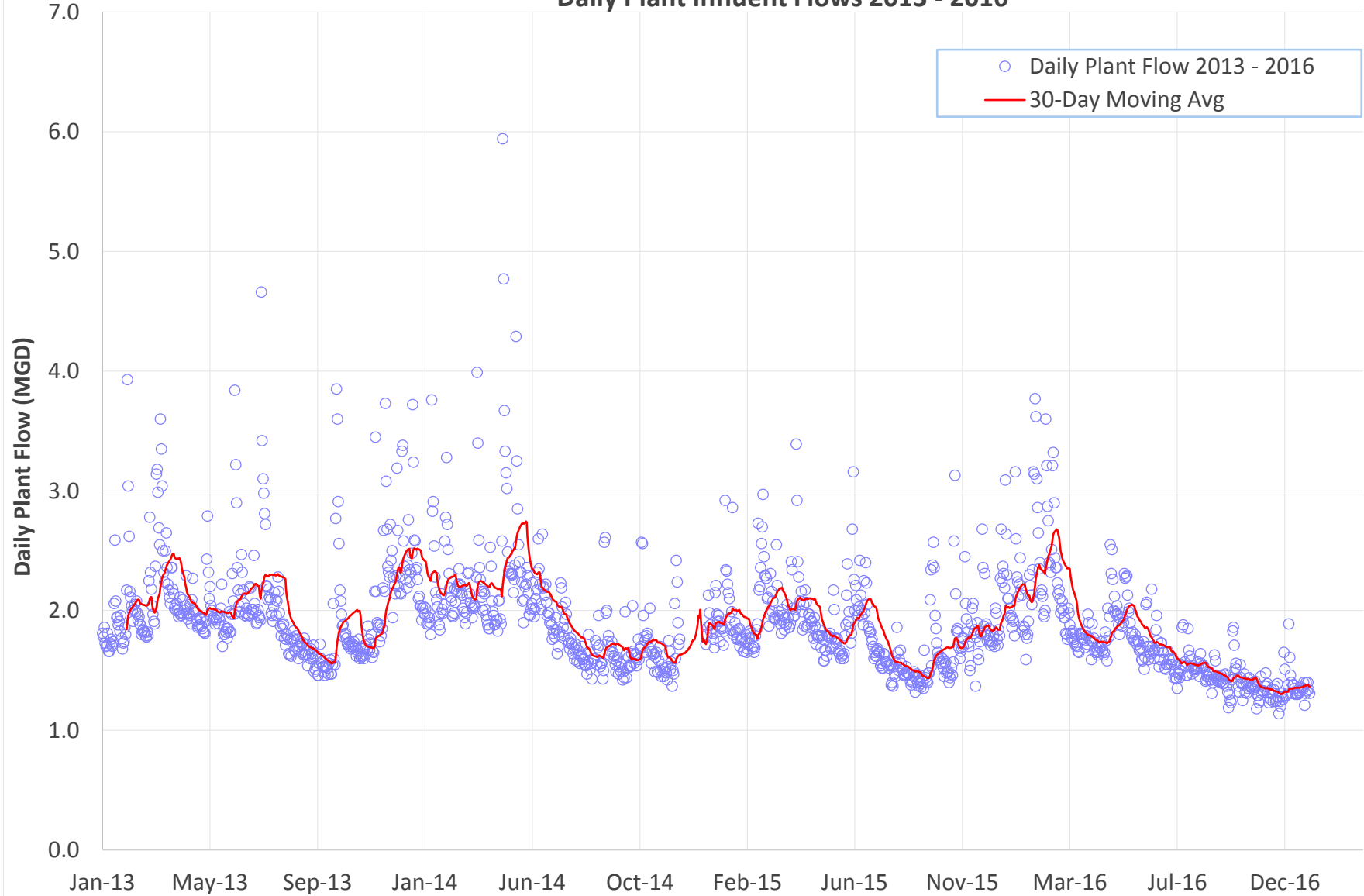


FIGURE 2
Peak Daily Plant Flows 2013 - 2016

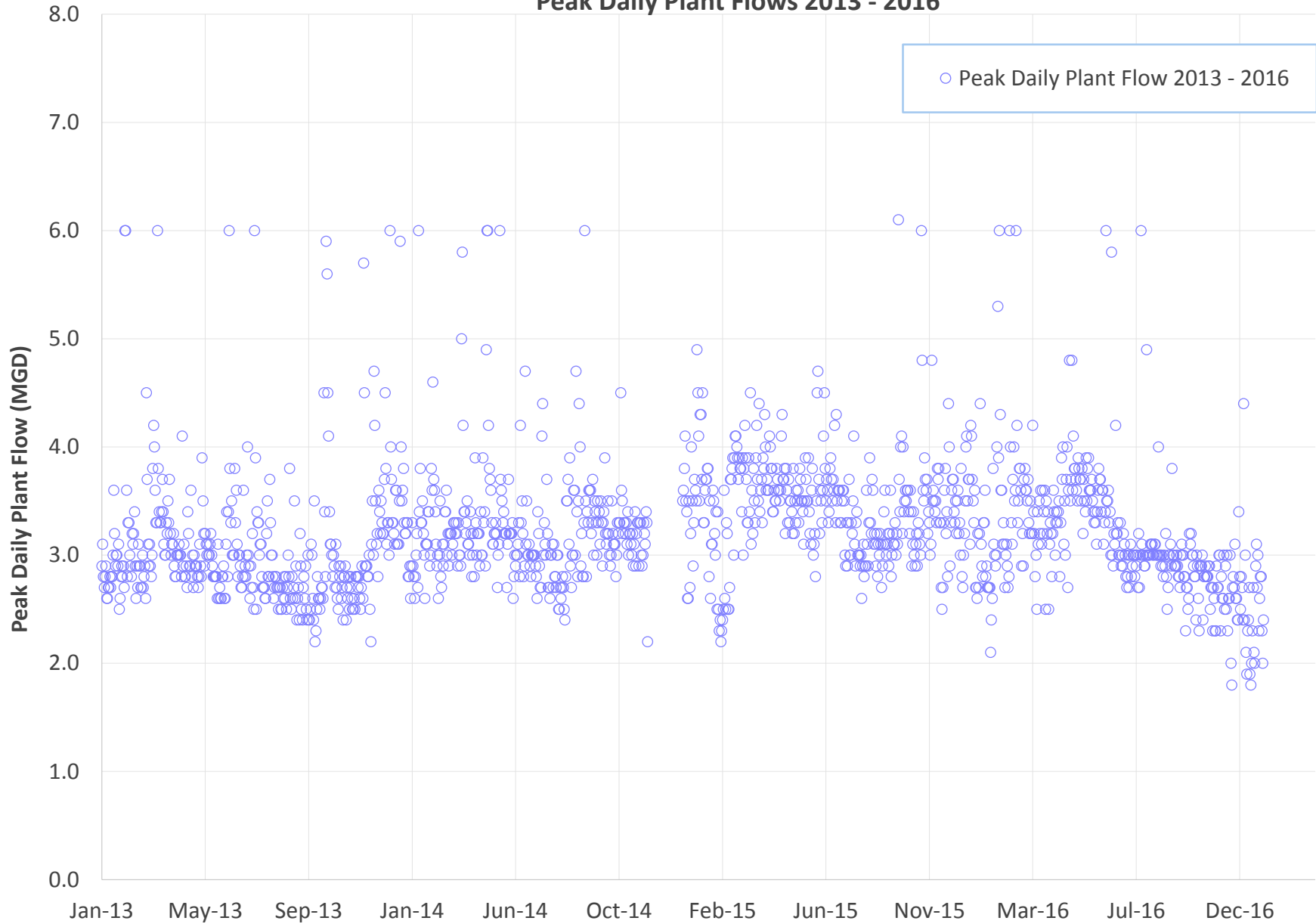


FIGURE 3A
Effluent BOD₅ Monthly Conc. 2013 - 2016

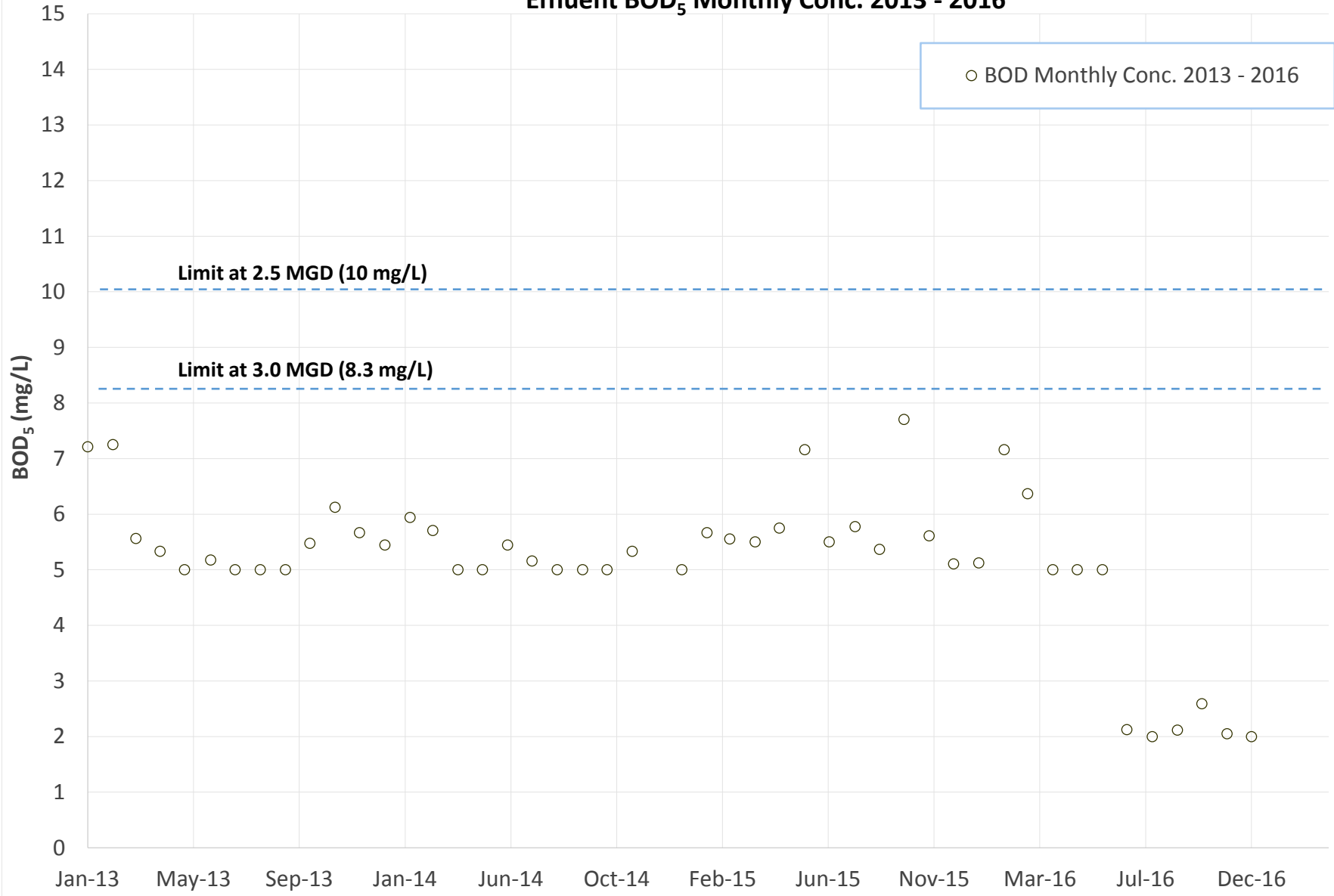


FIGURE 4A
Effluent TSS Monthly Conc. 2013 - 2016

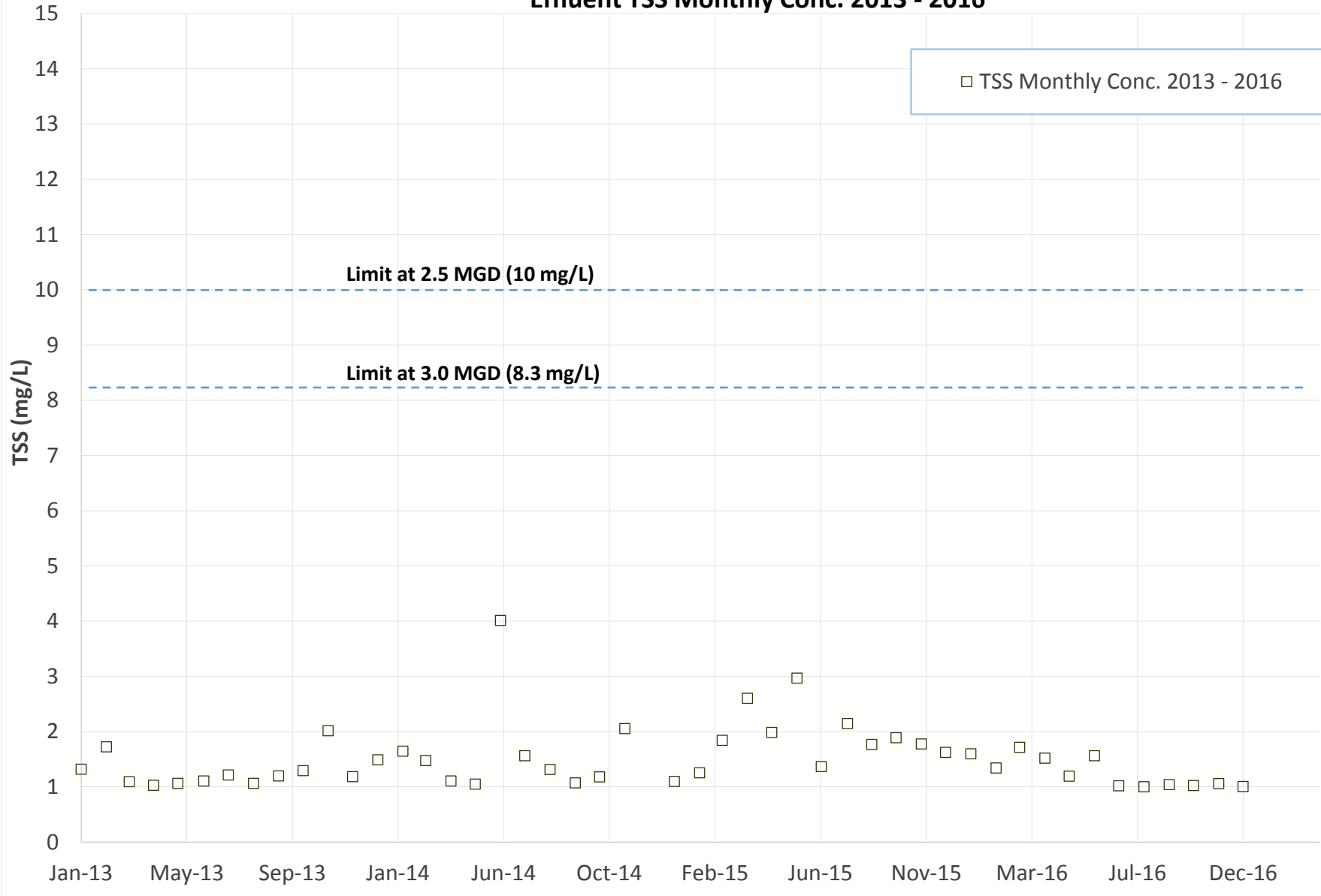


FIGURE 4B
Effluent TSS Weekly Conc. 2013 - 2016

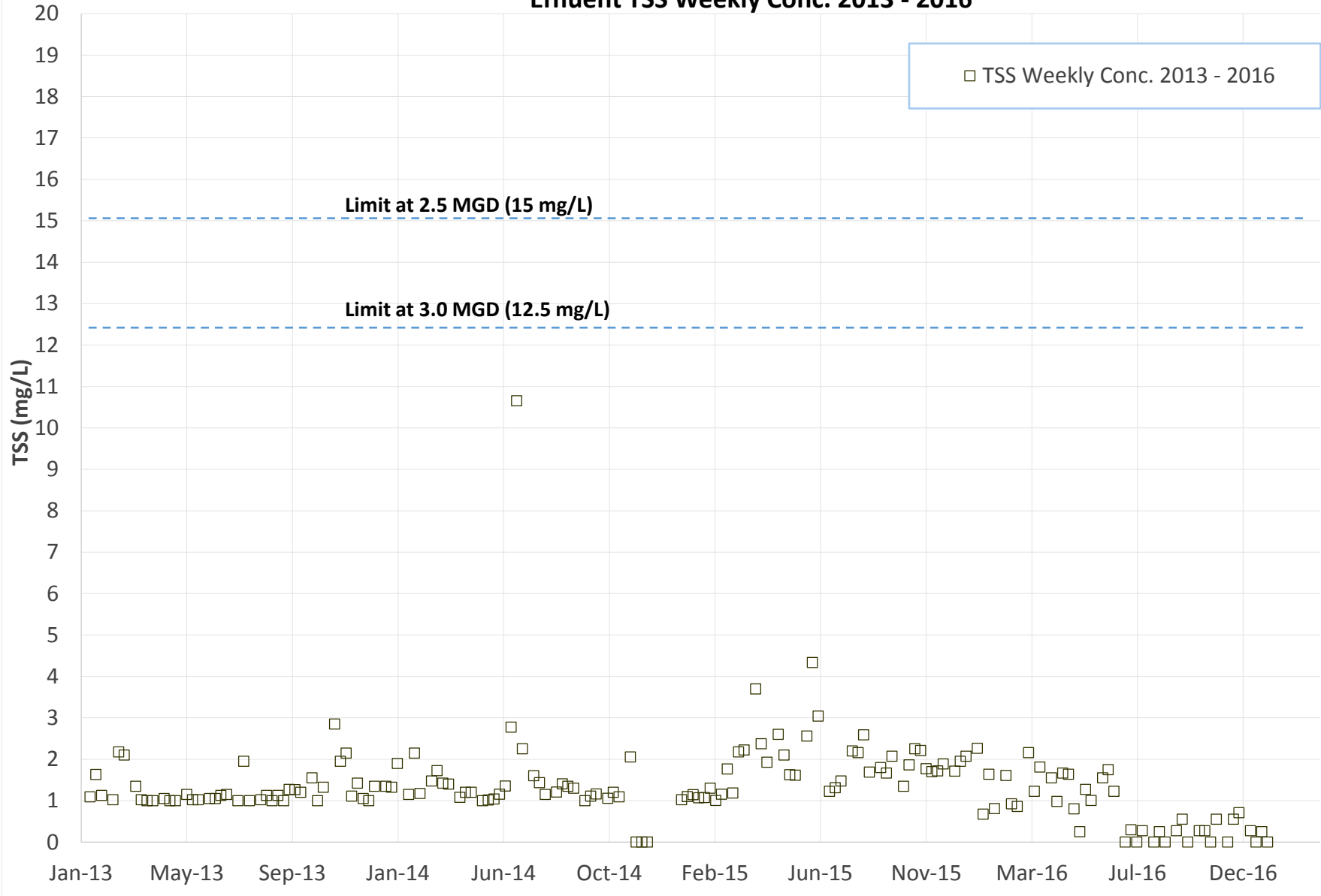
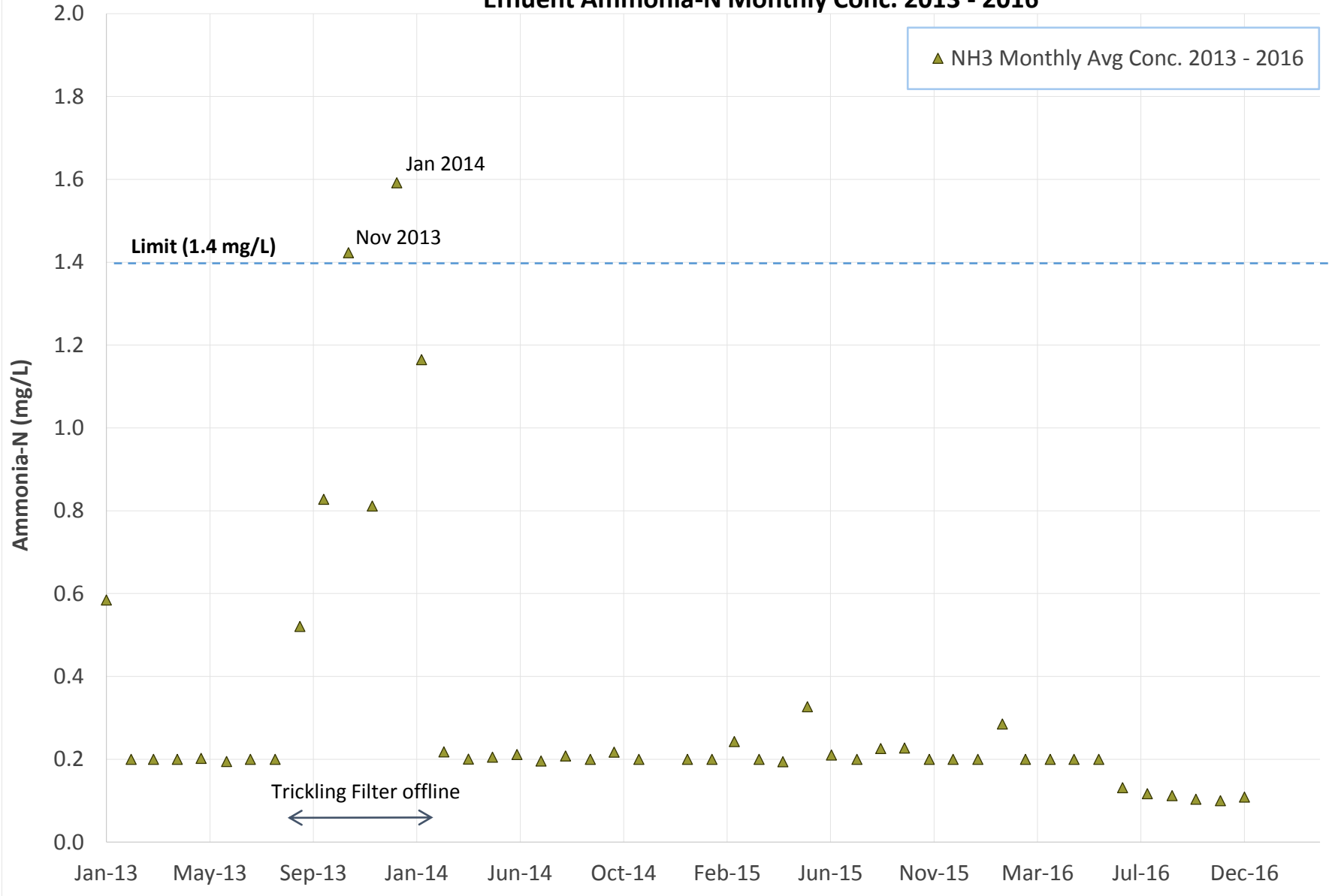


FIGURE 5A
Effluent Ammonia-N Monthly Conc. 2013 - 2016



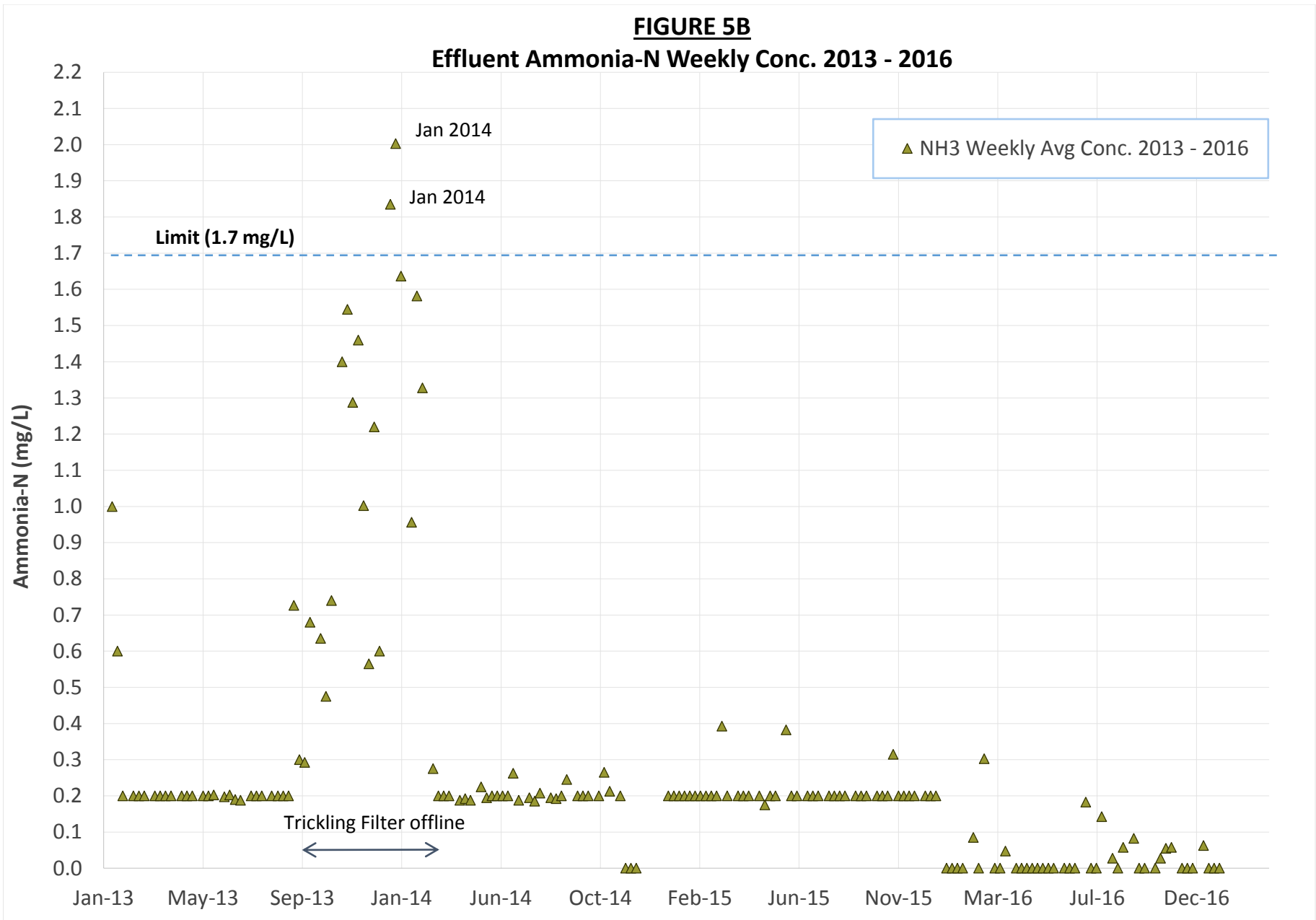


FIGURE 6
Effluent TN Monthly Conc. 2013 - 2016

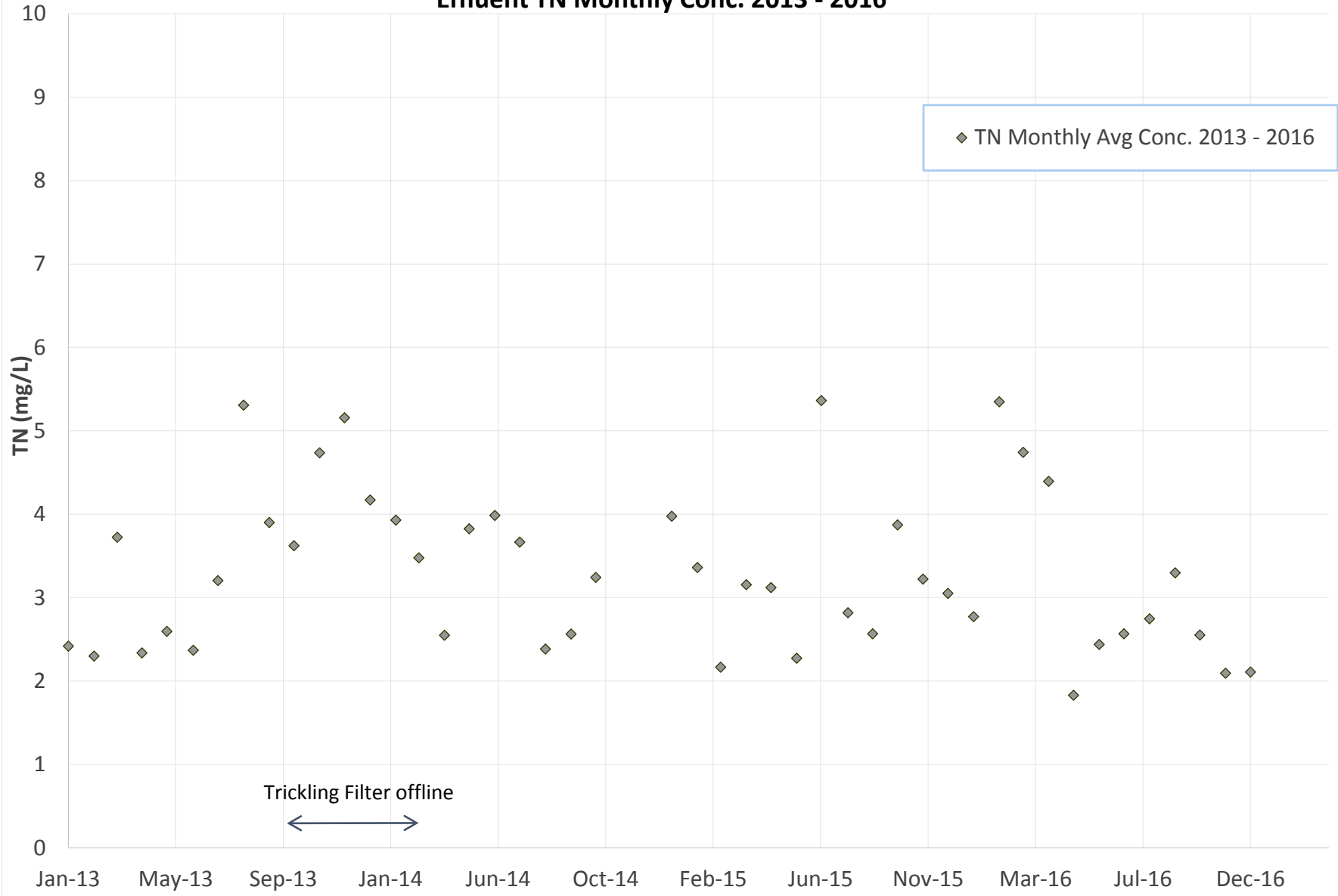


FIGURE 7
Effluent TP Monthly Avg Conc. 2013 - 2016

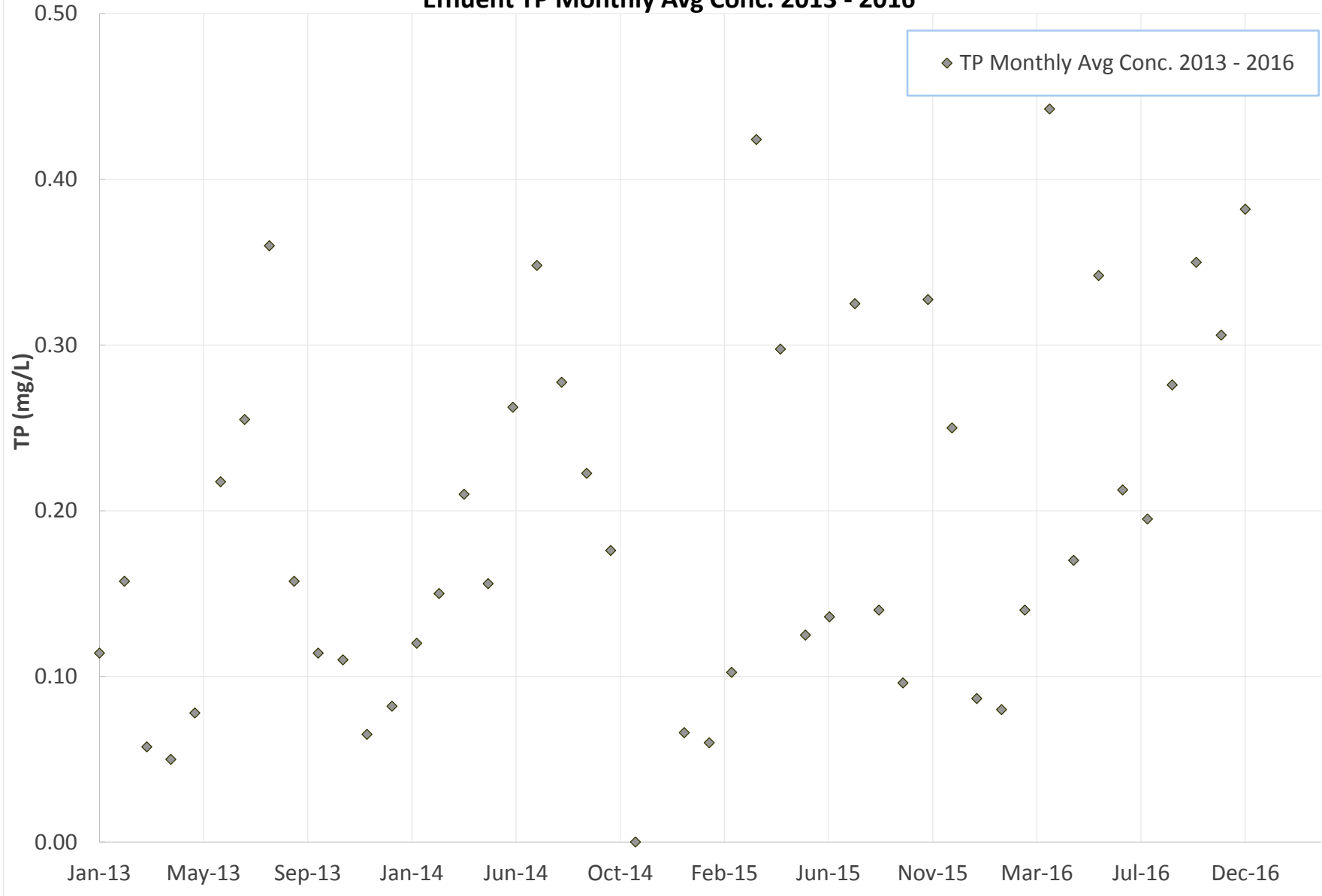
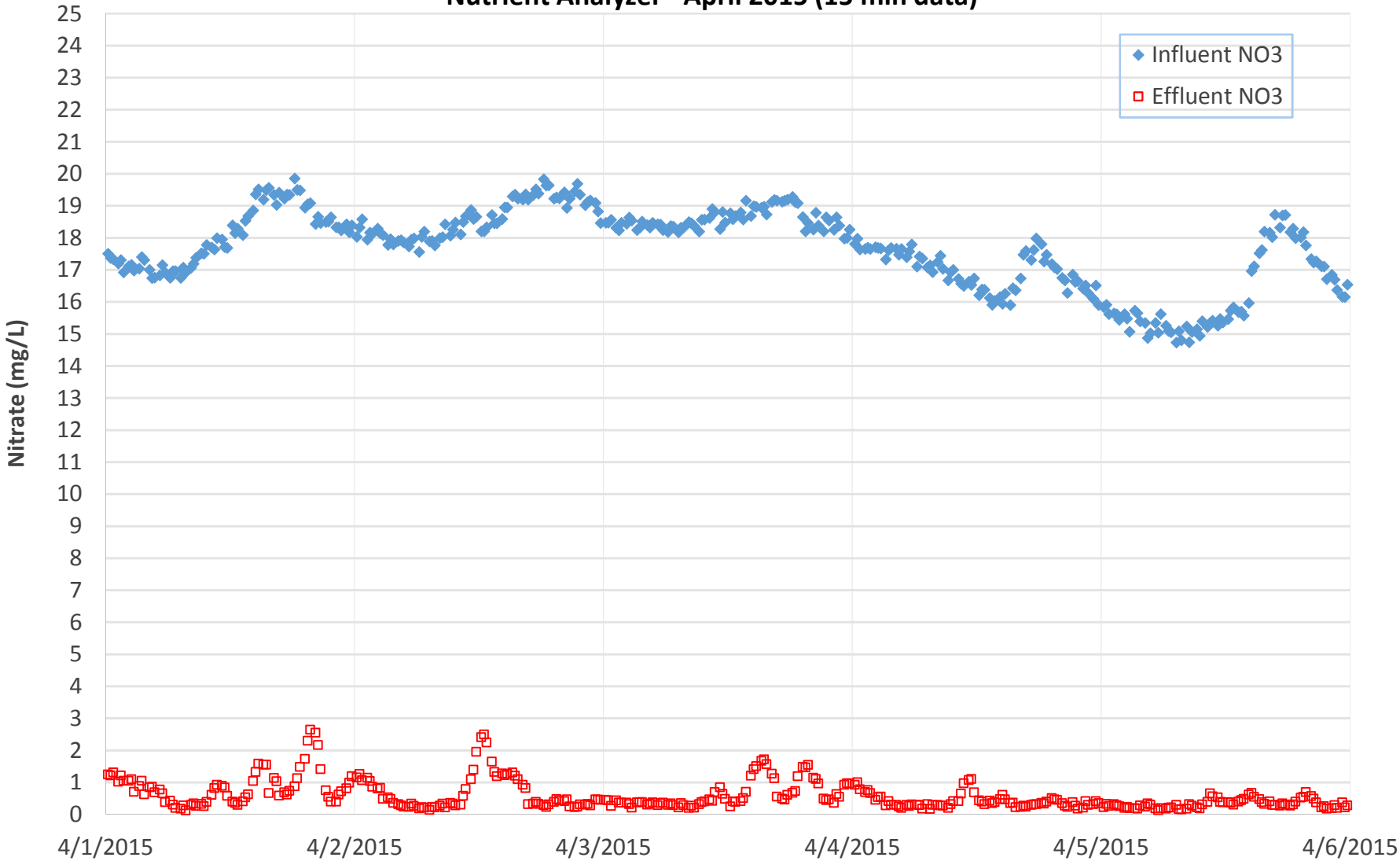


FIGURE 8
DN Filter Influent & Effluent Nitrate (mg/L)
Nutrient Analyzer - April 2015 (15 min data)



Appendices

Appendix A

Plant NPDES Discharge Permit



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

NORTHERN REGIONAL OFFICE
13901 Crown Court, Woodbridge, Virginia 22193
(703) 583-3800
www.deq.virginia.gov

Molly Joseph Ward
Secretary of Natural Resources

David K. Paylor
Director

Thomas A. Faha
Regional Director

11 July 2016

CERTIFY RECEIPT REQUESTED

Via email at etucker@warrentonva.gov

Edward B. Tucker, Jr.
Director of Public Works and Utilities
Town of Warrenton
Post Office Drawer 341
Warrenton, VA 20188-0341

Re: Reissuance of VPDES Permit No. VA0021172
Town of Warrenton Wastewater Treatment Plant
Fauquier County

Dear Mr. Tucker:

The Department of Environmental Quality (DEQ) has approved the enclosed effluent limitations and monitoring requirements for the aforementioned permit. Copies of your permit and fact sheet are enclosed.

Discharge Monitoring Report (DMR) forms, excluding sludge DMRs, are no longer included in the reissuance package since you are enrolled in DEQ's electronic DMR (eDMR) program. The first electronic DMR submittal for the month of August is due by 10 September 2016. Please reference the effluent limits in your permit and report monitoring results in eDMR to the same number of significant digits as are included in the permit limits for the parameter.

The regional contact for eDMR is Rebecca Vice; she can be reached at 703-583-3922 or by email at Rebecca.Vice@deq.virginia.gov.

Please note that compliance with the permit's requirements for use and disposal of sewage sludge does not relieve you of your responsibility to comply with federal requirements set forth in 40 CFR Part 503. Until DEQ seeks and is granted authority to administer the Part 503 regulations by EPA, treatment works treating domestic sewage should continue to work directly with EPA to comply with them. For more information, you can call the EPA Region III office in Philadelphia at 215-814-5735.

Please note that if this permit is to be reissued in five years, there are specific testing requirements associated with the Form 2A reissuance application that are different from the testing requirements in your permit. In order to provide the necessary data for Form 2A you may need to begin additional sampling during the term of this permit prior to receiving a reissuance reminder letter from this agency. Please look at Form 2A Part D (Expanded Effluent Testing Data) and Part E (Toxicity Testing Data) for the sampling requirements. Please note that DEQ and EPA will no longer accept waiver requests from the sampling or testing requirements in the application forms.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first) within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period.

VA0021172
Final Permit to Facility
11 July 2016
Page 2 of 2

Alternately, any owner under §§ 62.1-44.16, 62.1-44.17, and 62.1-44.19 of the State Water Control Law aggrieved by any action of the State Water Control Board taken without a formal hearing, or by inaction of the Board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the Board. Said petition must meet the requirements set forth in §1.23(b) of the Board's Procedural Rule No. 1. In cases involving actions of the Board, such petition must be filed within thirty days after notice of such action is mailed to such owner by certified mail.

A Reliability Class I is assigned to this facility and this facility has Class I licensed operator requirements.

Please contact Douglas Frasier at 703-583-3873 or via email at Douglas.Frasier@deq.virginia.gov should you have any questions concerning the permit.

Respectfully,



Jr Bryant Thomas
Regional Water Permits & Planning Manager

Enc.: Permit for VA0021172
Fact Sheet for VA0021172

cc: DEQ-Water, OWPP
EPA-Region III, 3WP12
Department of Health, Culpeper
Water Compliance, NRO
Allen Chichester, Wastewater Superintendent via achichester@warrentonva.gov

Municipal Major 07/05/2016
 DEPT. OF ENVIRONMENTAL QUALITY
 (REGIONAL OFFICE)
 Northern Regional Office
 13901 Crown Court
 Woodbridge VA 22193

COMMONWEALTH OF VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL QUALITY
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
 DISCHARGE MONITORING REPORT(DMR)

VA0021172	801	
PERMIT NUMBER	DISCHARGE NUMBER	
MONITORING PERIOD		
YEAR	MO	DAY
	TO	

NAME Warrenton Town Sewage Treatment Plant
 ADDRESS Town of Warrenton VA 20186
 Warrenton
 FACILITY LOCATION 731 Frost Ave

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
672 SOLIDS, TOTAL, SLUDGE AS PERCENT	*****	*****		*****	NA			1/3M	COMP
	*****	*****		*****	75	MG/KG		1/3M	COMP
680 ARSENIC, SLUDGE	*****	*****		*****	75	MG/KG		1/3M	COMP
	*****	*****		*****	75	MG/KG		1/3M	COMP
681 MOLYBDENUM, SLUDGE	*****	*****		*****	2800	MG/KG		1/3M	COMP
	*****	*****		*****	300	MG/KG		1/3M	COMP
682 ZINC, SLUDGE	*****	*****		*****	420	MG/KG		1/3M	COMP
	*****	*****		*****	57	MG/KG		1/3M	COMP
683 LEAD, SLUDGE	*****	*****		*****	1500	MG/KG		1/3M	COMP
	*****	*****		*****	4300	MG/KG		1/3M	COMP
684 NICKEL, SLUDGE	*****	*****		*****					
	*****	*****		*****					
685 MERCURY, SLUDGE	*****	*****		*****					
	*****	*****		*****					
686 COPPER, SLUDGE	*****	*****		*****					
	*****	*****		*****					

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE		DATE	
				TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.
I, CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHEMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY OBTAIN AND VALIDATE THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR OBTAINING THE INFORMATION, THE INFORMATION IS ACCURATE AND COMPLETE, I AM AWARE THAT THESE ARE AND BEING TRUE, ACCURATE AND COMPLETE, I AM AWARE THAT THESE ARE SIGNIFICANT RESULTS FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR BREACHING VIOLATIONS.				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	YEAR	MO.
				TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.

Municipal Meior 07/05/2016
DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Northern Regional Office
13901 Crown Court
Woodbridge VA 22193

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

VA0021172
PERMIT NUMBER
MONITORING PERIOD
YEAR MO DAY TO
DISCHARGE NUMBER
601

Warrenton Town Sewage Treatment Plant
Town of Warrenton VA 20186
731 Frost Ave
Warrenton

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM.

Table with columns: PARAMETER, QUANTITY OR LOADING (AVERAGE, MAXIMUM, UNITS), QUANTITY OR CONCENTRATION (MINIMUM, AVERAGE, MAXIMUM, UNITS), NO. EX., FREQUENCY OF ANALYSIS, SAMPLE TYPE. Rows include 687 CADMIUM, SLUDGE; 688 LEVEL OF PATHOGEN REQUIREMENTS ACHIEVED; 689 DESCRIPTION OF PATHOGEN OPTION USED; 690 VECTOR ATTRACTION REDUCTION OPTION USED; 697 SELENIUM, SLUDGE.

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
OPERATOR IN RESPONSIBLE CHARGE
TYPED OR PRINTED NAME, SIGNATURE, CERTIFICATE NO., TELEPHONE, DATE
BYPASSES AND OVERFLOWS, TOTAL OCCURRENCES, TOTAL FLOW(M.G.), TOTAL BOD5(K.G.)

Municipal Major 07/05/2016
 DEPT. OF ENVIRONMENTAL QUALITY
 (REGIONAL OFFICE)
 Northern Regional Office
 13901 Crown Court
 Woodbridge VA 22193

COMMONWEALTH OF VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL QUALITY
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
 DISCHARGE MONITORING REPORT(DMR)

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)
 Warrenton Town Sewage Treatment Plant
 Town of Warrenton
 Warrenton VA 20186

FACILITY LOCATION
 731 Frost Ave

VA00231172	SPL				
PERMIT NUMBER	DISCHARGE NUMBER				
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
			TO		

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

FROM

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE			
691 ANNUAL AMT SLUDGE DISPOSED BY OTHER MTD	REPORTD ***** REQRMNT *****	NL	MTRYR	***** ***** *****	***** ***** *****		1/3M	CALC
692 ANNUAL AMT SLUDGE INCINERATED	REPORTD ***** REQRMNT *****	NL	MTRYR	***** ***** *****	***** ***** *****		1/3M	CALC
693 ANNUAL SLUDGE PRODUCTION TOTAL	REPORTD ***** REQRMNT *****	NL	MTRYR	***** ***** *****	***** ***** *****		1/3M	CALC
694 ANNUAL AMT SLUDGE LAND APPLIED	REPORTD ***** REQRMNT *****	NL	MTRYR	***** ***** *****	***** ***** *****		1/3M	CALC
696 ANNUAL AMT SLUDGE DISPOSED IN LANDFILL	REPORTD ***** REQRMNT *****	NL	MTRYR	***** ***** *****	***** ***** *****		1/3M	CALC
	REPORTD						*****	
	REQRMNT						*****	
	REPORTD						*****	
	REQRMNT						*****	
	REPORTD						*****	
	REQRMNT						*****	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE		
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY IMPARTIALITY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR VIOLATIONS.			PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
				TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

This report is required by your VPDES permit and by law. (See, e.g., the Code of Virginia of 1960 §62.1-44.5 and 9 VAC 25-31-50.) Failure to report or failure to report truthfully can result in civil penalties of \$32,500 per violation, per day and felony prosecutions which can carry a 16 year term.

DISCHARGE MONITORING REPORT (DMR) - GENERAL INSTRUCTIONS

1. Complete this form in permanent ink or indelible pencil. The use of 'correction fluid/tape' is not allowed.
2. Be sure to enter the dates for the first and last day of the period covered by the report on the form in the space marked "Monitoring Period".
3. For those parameters where the "permit requirement" spaces have a requirement or limitation, provide data in the "reported" spaces in accordance with your permit.
4. Enter the average and maximum quantities and units in the "reported" spaces in the columns marked "Quantity or Loading".
 $KG/DAY = Concentration (mg/L) \times Flow (MGD) \times 3.785$ $G/D (Grams/Day) = Concentration (mg/L) \times Flow (MGD) \times 3785$
5. Enter maximum, minimum, and/or average concentrations and units in the "reported" spaces in the columns marked "Quality or Concentration".
6. For all parameters enter the number of samples which do not comply with the maximum and/or minimum permit requirements in the "reported" space in the column marked "No. Ex." (Number of Exceedances). If none, enter "0". Do NOT include monthly average violations in this field. Include any Maximum 7-Day Average and Maximum Weekly Average violations in this field. Permittees with continuous pH, or temperature monitoring requirements should consult the permit for what constitutes an exceedance and report accordingly.
7. You are required to sample (at a minimum) according to the Sample Frequencies and Sample Types specified in your permit.
8. Enter the actual frequency of analysis for each parameter (number of times per day, week, month, etc.) in the "reported" space in the column marked "Frequency of Analysis".
9. Enter the actual type of sample (Grab, 8HC, 24HC, etc) collected for each parameter in the "reported" space in the column marked "Sample Type".
10. Enter additional required data or comments in the space marked "additional permit requirements or comments". If additional required data or comments are appended to the DMR, reference appended correspondence in this field.
11. Record the number of bypasses during the month, the total flow in million gallons (MG) and BOD5 in kilograms (KG) in the proper columns in the section marked "Bypasses and Overflows".
12. The operator in responsible charge of the facility should review the form and sign in the space provided. If the plant is required to have a licensed operator or if the operator in responsible charge of the facility is a licensed operator, the operator's signature and certificate number must be reported in the spaces provided.
13. The principal executive officer then reviews the form and must sign in the space provided and provide a telephone number where he/she can be reached. Every page of the DMR must have an original signature.
14. Send the completed form(s) with original signatures to your Department of Environmental Quality Regional Office by the 10th of each month unless otherwise specified in the permit.
15. You are required to retain a copy of the report for your records.
16. Where violations of permit requirements are reported, attach a brief explanation in accordance with the permit requirements describing causes and corrective actions taken. Reference each separate violation by date.
17. If you have any questions, contact the Department of Environmental Quality Regional Office listed on the DMR.



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit No. VA0021172
Effective Date: August 1, 2016
Expiration Date: July 31, 2021

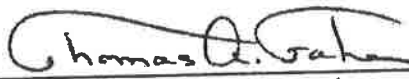
AUTHORIZATION TO DISCHARGE UNDER THE VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM AND THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this permit cover page, Part I – Effluent Limitations and Monitoring Requirements, Part II – Conditions Applicable To All VPDES Permits and Part III – Biosolids Conditions and Requirements, as set forth herein.

Owner Name: Town of Warrenton
Facility Name: Town of Warrenton Wastewater Treatment Plant
County: Fauquier
Facility Location: 731 Frost Avenue, Warrenton, VA 20186

The owner is authorized to discharge to the following receiving stream:

Stream Name: Great Run, UT
River Basin: Rappahannock River
River Subbasin: None
Section: 4
Class: III
Special Standards: None



Thomas A. Faha
Director, Northern Regional Office
Department of Environmental Quality



Date

A. Effluent Limitations and Monitoring Requirements
Outfall 001 – 2.5 MGD Facility

1. There shall be no discharge of floating solids or visible foam in other than trace amounts.
2. This facility has Total Nitrogen and Total Phosphorus calendar year load limits associated with this outfall included in the current Registration List under registration number VAN020028, enforceable under the General VPDES Watershed Permit Regulation for Total Nitrogen and Total Phosphorus Dischargers and Nutrient Trading in the Chesapeake Watershed in Virginia.
3. During the period beginning with the permit's effective date and lasting until the expiration date, the permittee is authorized to discharge from Outfall Number 001. Such discharges shall be limited and monitored by the permittee as specified below.

Parameter	Discharge Limitations				Monitoring Requirements			
	Monthly Average ⁽¹⁾		Weekly Average ⁽¹⁾		Minimum	Maximum ⁽¹⁾	Frequency	Sample Type
Flow ⁽²⁾ (MGD)	NL		NA		NA	NL	Continuous	TIRE
pH	NA		NA		6.0 S.U.	9.0 S.U.	1/D	Grab
Biochemical Oxygen Demand (BOD ₅) ⁽²⁾	10 mg/L	95 kg/day	15 mg/L	140 kg/day	NA	NA	4D/W ⁽³⁾	24H-C
Total Suspended Solids (TSS) ⁽²⁾⁽⁴⁾	10 mg/L	95 kg/day	15 mg/L	140 kg/day	NA	NA	4D/W ⁽³⁾	24H-C
Dissolved Oxygen	NA		NA		6.5 mg/L	NA	1/D	Grab
Total Kjeldahl Nitrogen (TKN)	NL mg/L		NL mg/L		NA	NA	1/W	24H-C
Ammonia, as N	1.4 mg/L		1.7 mg/L		NA	NA	4D/W ⁽³⁾	24H-C
<i>E. coli</i> (Geometric Mean) ⁽⁵⁾	126 n/100 mL		NA		NA	NA	1/D	Grab
NO ₂ + NO ₃ as Nitrogen	NL mg/L		NA		NA	NA	1/W	24H-C
Total Nitrogen ⁽⁶⁾	NL mg/L		NA		NA	NA	1/W	Calculated
Total Nitrogen – Year to Date ⁽⁷⁾	NL mg/L		NA		NA	NA	1/M	Calculated
Total Nitrogen – Calendar Year ⁽⁷⁾	4.0 mg/L		NA		NA	NA	1/YR	Calculated
Total Phosphorus	NL mg/L		NA		NA	NA	1/W	24H-C
Total Phosphorus – Year to Date ⁽⁷⁾	NL mg/L		NA		NA	NA	1/M	Calculated
Total Phosphorus – Calendar Year ⁽⁷⁾	0.3 mg/L		NA		NA	NA	1/YR	Calculated
Chronic Toxicity – <i>C. dubia</i> ⁽⁸⁾	NA		NA		NA	NL TU _c	1/YR	24H-C
Chronic Toxicity – <i>P. promelas</i> ⁽⁸⁾	NA		NA		NA	NL TU _c	1/YR	24H-C

- ⁽¹⁾ See Part I.B.
 - ⁽²⁾ The design flow is 2.5 MGD.
 - ⁽³⁾ At least 85% removal for BOD₅ and TSS shall be attained.
 - ⁽⁴⁾ TSS shall be expressed as two significant figures.
 - ⁽⁵⁾ Between 10 AM and 4 PM.
 - ⁽⁶⁾ Total Nitrogen is the sum of Total Kjeldahl Nitrogen and NO₂+NO₃ Nitrogen and shall be calculated from the results of those tests.
 - ⁽⁷⁾ See Part I.B.3. for nutrient reporting calculations.
 - ⁽⁸⁾ See Part I.D. for toxicity monitoring requirements.
 - ⁽⁹⁾ See Part I.E.10.
- MGD = Million gallons per day.
 NA = Not applicable.
 NL = No limit; monitor and report.
 S.U. = Standard units.
 TIRE = Totalizing, indicating and recording equipment.
- 1/D = Once every day.
 4D/W = Four days per week.
 1/W = Once per week.
 1/M = Once every month.
 1/YR = Once every calendar year.

24H-C = A flow proportional composite sample collected manually or automatically, and discretely or continuously, for the entire discharge of the monitored 24-hour period. Where discrete sampling is employed, the permittee shall collect a minimum of twenty-four (24) aliquots for compositing. Discrete sampling may be flow proportioned either by varying the time interval between each aliquot or the volume of each aliquot. Time composite samples consisting of a minimum of twenty-four (24) grab samples obtained at hourly or smaller intervals may be collected where the permittee demonstrates that the discharge flow rate (gallons per minute) does not vary by 10% or more during the monitored discharge.

Grab = An individual sample collected over a period of time not to exceed 15-minutes.

B. Quantification Levels and Compliance Reporting

1. Quantification Levels

- a. The quantification levels (QL) shall be less than or equal to the following concentrations:

<u>Characteristic</u>	<u>Quantification Level</u>
Total Suspended Solids (TSS)	1.0 mg/L
Biochemical Oxygen Demand-5 day (BOD ₅)	2 mg/L
Ammonia, as N	0.20 mg/L
Total Kjeldahl Nitrogen (TKN)	0.50 mg/L

- b. The QL is defined as the lowest concentration used to calibrate a measurement system in accordance with the procedures published for the method. It is the responsibility of the permittee to ensure that proper quality assurance/quality control (QA/QC) protocols are followed during the sampling and analytical procedures. QA/QC information shall be documented to confirm that appropriate analytical procedures have been used and the required QLs have been attained. The permittee shall use any method in accordance with Part II.A of this permit.

2. Compliance Reporting for Parameters in Part I.A.

- a. **Monthly Average** – Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in Part I.B.1.a. of this permit condition shall be determined as follows: All concentration data below the QL used for the analysis (QL must be less than or equal to the QL listed in Part I.B.1.a above) shall be treated as zero. All concentration data equal to or above the QL used for the analysis shall be treated as reported. An arithmetic average shall be calculated using all reported data for the month, including the defined zeros. This arithmetic average shall be reported on the Discharge Monitoring Report (DMR) as calculated. If all data are below the QL used for the analysis, then the average shall be reported as "< QL". If reporting for quantity is required on the DMR and the reported monthly average concentration is < QL, then report "< QL" for the quantity. Otherwise, use the reported concentration data (including the defined zeros) and flow data for each sample day to determine the daily quantity and report the monthly average of the calculated daily quantities.
- b. **Weekly Average** – Compliance with the weekly average limitations and/or reporting requirements for the parameters listed in Part I.B.1.a. of this permit condition shall be determined as follows: All concentration data below the QL used for the analysis (QL must be less than or equal to the QL listed in Part I.B.1.a above) shall be treated as zero. All concentration data equal to or above the QL used for the analysis shall be treated as reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, collected within each complete calendar week and entirely contained within the reporting month. The maximum value of the weekly averages thus determined shall be reported on the DMR. If all data are below the QL used for the analysis, then the weekly average shall be reported as "< QL". If reporting for quantity is required on the DMR and the reported weekly average concentration is < QL, then report "< QL" for the quantity. Otherwise use the reported concentration data (including the defined zeros) and flow data for each sample day to determine the daily quantity and report the maximum weekly average of the calculated daily quantities.
- c. **Single Datum** – Any single datum required shall be reported as "< QL" if it is less than the QL used in the analysis (QL must be less than or equal to the QL listed in Part I.B.1.a above). Otherwise the numerical value shall be reported.
- d. **Significant Digits** – The permittee shall report at least the same number of significant digits as the permit limit for a given parameter. Regardless of the rounding convention used by the permittee (i.e. 5 always rounding up or to the nearest even number), the permittee shall use the convention consistently and shall ensure that consulting laboratories employed by the permittee use the same convention.

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3. Nutrient Reporting Calculations for Part I.A.

- a. For each calendar month, the DMR shall show the calendar year-to-date average concentration (mg/L) calculated in accordance with the following formulae:

$$MC_{avg}\text{-YTD} = (\sum_{(Jan\text{-current month})} MC_{avg}) \div (\# \text{ of months })$$

where: $MC_{avg}\text{-YTD}$ = calendar year-to-date average concentration (mg/L)
 MC_{avg} = monthly average concentration (mg/L) as reported on DMR

- b. The total nitrogen and phosphorus average concentrations (mg/L) for each calendar year (AC) shall be shown on the December DMR due January 10th of the following year. These values shall be calculated in accordance with the following formulae:

$$AC_{avg} = (\sum_{(Jan\text{-Dec})} MC_{avg}) \div 12$$

where: AC_{avg} = calendar year average concentration (mg/L)
 MC_{avg} = monthly average concentration (mg/L) as reported on DMR

- c. For total phosphorus, all daily concentration data below the quantification level (QL) for the analytical method used should be treated as half the QL. All daily concentration data equal to or above the QL for the analytical method used shall be treated as it is reported.
- d. For total nitrogen (TN), if none of the daily concentration data for the respective species (i.e. TKN, Nitrates/Nitrites) are equal to or above the QL for the respective analytical methods used, the daily TN concentration value reported shall equal one half of the largest QL used for the respective species. If one of the data is equal to or above the QL, the daily TN concentration value shall be treated as that data point is reported. If more than one of the data is above the QL, the daily TN concentration value shall equal the sum of the data points as reported.

C. Pretreatment Requirements

Within 180 days of the effective date of this permit, the permittee shall submit written verification to the Department of Environmental Quality, Northern Regional Office (DEQ-NRO) that the Industrial User Survey (IU Survey) is current and no potential significant industrial users (SIUs) discharge to the POTW.

1. If potential SIUs are not identified, the permittee is not required to implement a pretreatment program. The requirements for program development described below may be suspended by the DEQ.
2. If Categorical Industrial User(s) (CIUs) are identified, or if the permittee or DEQ determines that any IU has potential to adversely affect the operation of the POTW or cause violation(s) of federal, state, or local standards or requirements, the permittee shall develop and submit to DEQ-NRO within one year of written notification by DEQ a pretreatment program for approval. The program shall enable the permittee to control by permit the SIUs discharging wastewater to the treatment works.
3. The approvable pretreatment program submission shall at a minimum contain the following parts:
 - a. The legal authority;
 - b. Program procedures;
 - c. Funding and resources;
 - d. A local limits evaluation and local limits if needed;
 - e. An Enforcement Response Plan, and

f. A list of SIUs.

A SIU is defined as an IU that:

- 1) Has an average flow of 25,000 gallons or more per day of process wastewater to exclude sanitary, non-contact cooling water and boiler blowdown;
 - 2) Contributes a process wastestream which makes up 5.0% or more of the average dry weather hydraulic or organic capacity of the POTW;
 - 3) Is subject to the categorical pretreatment standards; or
 - 4) Has significant impact, either singularly or in combination with other significant dischargers, on the treatment works or the quality of its effluent.
4. Where the permittee is required to develop a pretreatment program, they shall submit to DEQ-NRO an annual report no later than January 31 of each year that includes:
- a. An updated list of the SIUs noting all of the following:
 - 1) Facility address, phone and contact name;
 - 2) An explanation regarding SIUs deleted from the previous year's list;
 - 3) Identification of IUs subject to Categorical Standards and notation of application standard (e.g., metal finishing);
 - 4) Specification of applicable 40 CFR Part(s);
 - 5) Indication of IUs subject to local standards that are more stringent than Categorical Pretreatment Standards;
 - 6) Indication of IUs subject only to local requirements
 - 7) Identification of IUs subject to Categorical Pretreatment Standards that are also subject to reduced reporting requirements under 9VAC25-31-840 E.3.; and
 - 8) Identification of IUs that are non-significant CIUs.
 - b. A summary of the compliance status of each SIU with pretreatment standards and permit requirements;
 - c. A summary of the number and types of SIU sampling and inspections performed by the POTW;
 - d. All information concerning any interference, upset, VPDES permit or water quality standards violations directly attributable to SIUs and enforcement actions taken to alleviate said events;
 - e. A description of all enforcement actions taken against SIUs over the previous 12 months;
 - f. A summary of any changes to the submitted pretreatment program that have not been previously reported to DEQ-NRO;
 - g. A summary of the permits issued to SIUs since the last annual report;
 - h. POTW and self-monitoring results for SIUs determined to be in significant non-compliance during the reporting period;
 - i. Results of the POTW's influent/effluent/sludge sampling that have not been previously submitted to DEQ;

- j. Copies of newspaper publications of all SIUs in significant non-compliance during the reporting period to be due no later than March 31 of each year; and
 - k. The signature of an authorized representative.
5. The DEQ may require the POTW to institute changes to the legal authority regarding SFU permit(s):
- a. If the legal authority does not meet the requirements of the Clean Water Act, Water Control Law or State regulations;
 - b. If problems such as interferences, pass-through, violations of water quality standards or sludge contamination develop or continue; and
 - c. If federal, state or local requirements change.

D. Whole Effluent Toxicity Program Requirements

1. Biological Monitoring

- a). In accordance with the schedule in Part I.D.2. below, the permittee shall conduct annual chronic toxicity tests during this permit term. The permittee shall collect 24-hour flow-proportioned composite samples of final effluent at Outfall 001.

The chronic tests to use are:

Chronic 3-Brood Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia*

Chronic 7-Day Static Renewal Survival and Growth Test using *Pimephales promelas*

These chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions) to determine the "No Observed Effect Concentration" (NOEC) for survival and reproduction or growth. Results which cannot be quantified (i.e. a "less than" NOEC value) are not acceptable and a retest shall be performed. The NOEC, as determined by hypothesis testing, shall be converted to TU_c (Chronic Toxic Units) for Discharge Monitoring Report (DMR) reporting where $TU_c = 100/NOEC$. Report the LC_{50} at 48 hours and the IC_{25} with the NOEC's in the test report.

- b). The permittee may provide additional samples to address data variability. These data shall be reported. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.
- c). The test dilutions shall be able to determine compliance with the following endpoints:

Chronic NOEC \geq 69%; equivalent to a $TU_c \leq 1.44$
- d). The test data will be evaluated statistically for reasonable potential at the conclusion of the test period. The data may be evaluated sooner if requested by the permittee or if toxicity has been noted. Should evaluation of the data indicate that a limit is warranted, a WET limit and compliance schedule will be required.
- e). The permit may be modified or revoked and reissued to include pollutant specific limits in lieu of a WET limit should it be demonstrated that toxicity is due to specific parameters. The pollutant specific limitation shall control the toxicity of the effluent.

(Remainder of page intentionally left blank)

2. Reporting Schedule

The permittee shall monitor during the specified period; shall report the results on the DMR; and shall supply one copy of the toxicity test report specified in this Whole Effluent Toxicity Program in accordance with the following schedule:

Period	Sampling Period	DMR/Report Submission Dates
Annual 1	April 1, 2017 – June 30, 2017	January 10, 2018
Annual 2	January 1, 2018 – March 31, 2018	January 10, 2019
Annual 3	July 1, 2019 – September 30, 2019	January 10, 2020
Annual 4	October 1, 2020 – December 31, 2020	January 10, 2021

E. Other Requirements and Special Conditions

1. 95% Capacity Reopener

A written notice and a plan of action for ensuring continued compliance with the terms of this permit shall be submitted to the DEQ-Northern Regional Office (DEQ-NRO) when the monthly average flow influent to the sewage treatment plant reaches 95% of the design capacity authorized in this permit for each month of any three consecutive month period. The written notice shall be submitted within 30 days and the plan of action shall be received at the DEQ-NRO no later than 90 days from the third consecutive month for which the flow reached 95% of the design capacity. The plan shall include the necessary steps and a prompt schedule of implementation for controlling any current or reasonably anticipated problem resulting from high influent flows. Failure to submit an adequate plan in a timely manner shall be deemed a violation of this permit.

2. Indirect Discharges

The permittee shall provide adequate notice to the Department of the following:

- a. Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Section 301 or 306 of Clean Water Act and the State Water Control Law if it were directly discharging those pollutants; and
- b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of this permit.

Adequate notice shall include information on (i) the quality and quantity of effluent introduced into the treatment works, and (ii) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the treatment works.

3. Operations and Maintenance Manual Requirement

The permittee shall maintain a current Operations and Maintenance (O&M) Manual for the treatment works that is in accordance with Virginia Pollutant Discharge Elimination System Regulations, 9VAC25-31 and Sewage Collection and Treatment Regulations, 9VAC25-790.

The O&M Manual and subsequent revisions shall include the manual effective date and meet Part II.K.2 and Part II.K.4 Signatory Requirements of the permit. Any changes in the practices and procedures followed by the permittee shall be documented in the O&M Manual within 90 days of the effective date of the changes. The permittee shall operate the treatment works in accordance with the O&M Manual and shall make the O&M manual available to Department personnel for review during facility inspections. Within 30 days of a request by DEQ, the current O&M Manual shall be submitted to the DEQ-NRO for review and approval.

The O&M Manual shall detail the practices and procedures which will be followed to ensure compliance with the requirements of this permit. This manual shall include, but not necessarily be limited to, the following items, as appropriate:

- a. Permitted outfall locations and techniques to be employed in the collection, preservation and analysis of effluent, storm water and sludge samples;
- b. Procedures for measuring and recording the duration and volume of treated wastewater discharged;
- c. Discussion of Best Management Practices, if applicable;
- d. Procedures for handling, storing and disposing of all wastes, fluids and that will prevent these materials from reaching state waters. List type and quantity of wastes, fluids and pollutants (e.g. chemicals) stored at this facility;
- e. Discussion of treatment works design, treatment works operation, routine preventative maintenance of units within the treatment works, critical spare parts inventory and record keeping;
- f. Plan for the management and/or disposal of waste solids and residues;
- g. Hours of operation and staffing requirements for the plant to ensure effective operation of the treatment works and maintain permit compliance;
- h. List of facility, local and state emergency contacts; and
- i. Procedures for reporting and responding to any spills/overflows/treatment works upsets.

4. Certificate to Construct/Certificate to Operate Requirements

In accordance with *Sewage Collection and Treatment* regulation (9VAC25-790), the permittee shall obtain a Certificate to Construct (CTC) and a Certificate to Operate (CTO) from the Department of Environmental Quality prior to constructing wastewater treatment works and operating the treatment works, respectively. Non-compliance with the CTC or CTO shall be deemed a violation of the permit.

5. Licensed Operator Requirement

The permittee shall employ or contract at least one Class I licensed wastewater works operator for this facility. The license shall be issued in accordance with Title 54.1 of the Code of Virginia and Board for Waterworks and Wastewater Works Operators and Onsite Sewage System Professionals Regulations. The permittee shall notify the Department in writing whenever he is not complying, or has grounds for anticipating he will not comply with this requirement. The notification shall include a statement of reasons and a prompt schedule for achieving compliance.

6. Reliability Class

The permitted treatment works shall meet Reliability Class I.

7. Water Quality Criteria Reopener

Should effluent monitoring indicate the need for any water quality-based limitations, this permit may be modified or alternatively revoked and reissued to incorporate appropriate limitations.

8. E3/E4

The annual average concentration limitations for total nitrogen and/or total phosphorus are suspended during any calendar year in which the facility is considered by DEQ to be a participant in the Virginia Environmental Excellence Program in good standing at either the Exemplary Environmental Enterprise (E3) level or the Extraordinary Environmental Enterprise (E4) level, provided that the following conditions have also been met:

- a. The facility has applied for (or renewed) participation, been accepted, maintained a record of sustained compliance and submitted an annual report according to the program guidelines;
- b. The facility has demonstrated that they have in place a fully implemented environmental management system (EMS) with an alternative compliance method that includes operation of installed nutrient removal technologies to achieve the annual average concentration limitations; and
- c. The E3/E4 designation from DEQ and implementation of the EMS has been in effect for the full calendar year.

The annual average concentration limitations for total nitrogen and/or total phosphorus, as applicable, are not suspended in any calendar year following a year in which the facility failed to achieve the annual average concentration limitations as required by b. above.

9. Nutrient Reopener

This permit may be modified or, alternatively, revoked and reissued:

- a. If any approved wasteload allocation procedure, pursuant to Section 303(d) of the Clean Water Act, imposes wasteload allocations, limits or conditions on the facility that are not consistent with the permit requirements;
- b. To incorporate technology-based effluent concentration limitations for nutrients in conjunction with the installation of nutrient control technology, whether by new construction, expansion or upgrade, or
- c. To incorporate alternative nutrient limitations and/or monitoring requirements, should:
 - 1) the State Water Control Board adopt new nutrient standards for the water body receiving the discharge, including the Chesapeake Bay or its tributaries; or
 - 2) a future water quality regulation or statute require new or alternative nutrient control.

10. Effluent Monitoring Frequency

If the facility permitted herein is issued a Notice of Violation for BOD₅, TSS or ammonia the effluent monitoring frequencies shall become revert back to 5D/W effective upon written notice from DEQ and remain in effect until permit expiration.

No other effluent limitations or monitoring requirements are affected by this special condition.

11. Collection System

The Town of Warrenton shall develop and implement a capacity, management, operation and maintenance (CMOM) program, or its equivalent, designed to maintain and operate Town owned collection system assets in accordance with industry accepted practices relating to sewer inspection, evaluation, repair and that all feasible steps are taken to eliminate excessive infiltration and inflow from the system.

The CMOM, or its equivalent, shall be submitted to DEQ-NRO staff for review and approval on or before 1 August 2017. Upon approval of the program and written notification from DEQ-NRO, an annual report shall be submitted thereafter on or before the 10th of August of every year detailing the previous fiscal year's activities/operations. The annual reports shall, at a minimum, provide the total amount funded to this program, studies/surveys conducted, completed rehabilitation projects and planned/proposed course of actions for the upcoming fiscal year.

12. Total Maximum Daily Load (TMDL) Reopener

This permit shall be modified or alternatively revoked and reissued if any approved wasteload allocation procedure, pursuant to Section 303(d) of the Clean Water Act, imposes wasteload allocations, limits or conditions on the facility that are not consistent with the permit requirements.

CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring

1. Samples and measurements required by this permit shall be taken at the permit designated or approved location and be representative of the monitored activity.
 - a. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.
 - b. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.
 - c. Samples taken shall be analyzed in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.
2. Any pollutant specifically addressed by this permit that is sampled or measured at the permit designated or approved location more frequently than required by this permit shall meet the requirements in A 1 a through c above and the results of this monitoring shall be included in the calculations and reporting required by this permit.
3. Operational or process control samples or measurements shall not be taken at the designated permit sampling or measurement locations. Operational or process control samples or measurements do not need to follow procedures approved under Title 40 Code of Federal Regulations Part 136 or be analyzed in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

B. Records

1. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The individual(s) who performed the sampling or measurements;
 - c. The date(s) and time(s) analyses were performed;
 - d. The individual(s) who performed the analyses;
 - e. The analytical techniques or methods used; and
 - f. The results of such analyses.
2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit.

Monitoring results shall be submitted to:

Department of Environmental Quality – Northern Regional Office (DEQ-NRO)
 13901 Crown Court
 Woodbridge, VA 22193

2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department.
3. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from this discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or
2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II.F.; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II.F., shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;
2. The cause of the discharge;
3. The date on which the discharge occurred;
4. The length of time that the discharge continued;
5. The volume of the discharge;
6. If the discharge is continuing, how long it is expected to continue;
7. If the discharge is continuing, what the expected total volume of the discharge will be; and

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8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse effects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II.I.2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;
2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service some or all of the treatment works; and
4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect state waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:
 - a. Any unanticipated bypass; and
 - b. Any upset which causes a discharge to surface waters.
2. A written report shall be submitted within 5 days and shall contain:
 - a. A description of the noncompliance and its cause;
 - b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
 - c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II.I. if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Parts II, I.1 or I.2., in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II.I.2.

NOTE: The immediate (within 24 hours) reports required in Parts II, G., H. and I. may be made to the Department's Northern Regional Office at (703) 583-3800 or online at <http://www.deq.virginia.gov/Programs/PollutionResponsePreparedness/MakingaReport.aspx>.

For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24-hour telephone service at 1-800-468-8892.

J. Notice of Planned Changes

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
 - a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:
 - 1) After promulgation of standards of performance under Section 306 of Clean Water Act which are applicable to such source; or
 - 2) After proposal of standards of performance in accordance with Section 306 of Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;
 - b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or
 - c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements

1. Applications. All permit applications shall be signed as follows:
 - a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
 - 1) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or
 - 2) The manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
 - b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - c. For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes:
 - 1) The chief executive officer of the agency, or
 - 2) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. Reports, etc. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II.K.1., or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described in Part II.K.1.;
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and
 - c. The written authorization is submitted to the Department.
3. Changes to authorization. If an authorization under Part II.K.2. is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II.K.2. shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.
4. Certification. Any person signing a document under Parts II, K.1. or K.2. shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to Comply

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit

This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

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Part II

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O. State Law

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II.U.), and "upset" (Part II.V.) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of Solids or Sludges

Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II, U.2. and U.3.
2. Notice
 - a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.
 - b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II.I.
3. Prohibition of bypass.
 - a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:
 - 1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

- 2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - 3) The permittee submitted notices as required under Part II.U.2.
- b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II.U.3.a.

V. Upset

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II.V.2. are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.
2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - a. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - b. The permitted facility was at the time being properly operated;
 - c. The permittee submitted notice of the upset as required in Part II.I.; and
 - d. The permittee complied with any remedial measures required under Part II.S.
3. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of permits

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II.Y.2., a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.
2. As an alternative to transfers under Part II.Y.1., this permit may be automatically transferred to a new permittee if:
 - a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;
 - b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
 - c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II.Y.2.b.

Z. Severability

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

BIOSOLIDS CONDITIONS AND REQUIREMENTS

A. Biosolids Limitations and Monitoring Requirements

During the period beginning with the permit's effective date and lasting until the permit expiration date, the permittee is authorized to manage biosolids in accordance with 9VAC25-31-420 through 720 and 9VAC25-32-303 through 358, the limitations, conditions and requirements set forth in this permit and the approved Biosolids Management Plan.

All biosolids samples shall be collected and analyzed in accordance with Title 40 of the Code of Federal Regulations, Part 503 and 136, and the approved Biosolids Management Plan. The permittee shall ensure that all biosolids generated under authority of this permit and distributed for the purpose of land application, blending or further treatment are monitored in accordance with the monitoring requirements as specified herein.

Class B Biosolids

1. Biosolids Annual Production Monitoring (SP1)

The permittee shall report the annual total amount of biosolids produced (in dry metric tons) and annual amount of Class B biosolids (in dry metric tons) distributed for land application.

Data shall be reported on the Discharge Monitoring Report (DMR) for discharge number SP1.

2. Biosolids Chemical Limitations and Monitoring Requirement (S01)

Pollutants in Class B biosolids that are generated and provided to a land applier under the authority of this permit shall be monitored and limited as specified below. Biosolids shall not be provided for land application if the concentration of any pollutant in the biosolids exceeds the ceiling limitation of that pollutant.

Biosolids Characteristic ⁽¹⁾	PC / CPLR Limitations ⁽¹⁾	Ceiling Limitations ⁽¹⁾	Monitoring Requirements	
	Monthly Average ⁽²⁾	Concentration Maximum ⁽²⁾	Frequency	Sample Type
Percent Solids (%)	NL	NA	1/3M	Composite
Arsenic, Sludge	41 mg/kg	75 mg/kg	1/3M	Composite
Cadmium, Sludge	39 mg/kg	85 mg/kg	1/3M	Composite
Copper, Sludge	1500 mg/kg	4300 mg/kg	1/3M	Composite
Lead, Sludge	300 mg/kg	840 mg/kg	1/3M	Composite
Mercury, Sludge	17 mg/kg	57 mg/kg	1/3M	Composite
Molybdenum, Sludge	NL	75 mg/kg	1/3M	Composite
Nickel, Sludge	420 mg/kg	420 mg/kg	1/3M	Composite
Selenium, Sludge	100 mg/kg	100 mg/kg	1/3M	Composite
Zinc, Sludge	2800 mg/kg	7500 mg/kg	1/3M	Composite

NA = Not applicable.
 NL = No limit; monitor and report.

1/3M = Once every calendar quarter.
 mg/kg = Milligrams per kilogram, dry weight.

⁽¹⁾ All parameters are subject to pollutant concentrations (PC), cumulative pollutant loading rates (CPLR), and ceiling limits. PC biosolids contain the constituents identified above at concentrations below the monthly average specified herein. CPLR biosolids contain the constituents identified above at concentrations above the monthly average and each sample must be below the maximum concentration specified herein.

⁽²⁾ All limits and criteria are expressed on a dry weight basis.

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3. Pathogen Reduction and Vector Attraction Reduction (VAR) Requirements (S01)

Biosolids generated and provided to a land applier under this permit shall be treated to meet a Class B Pathogen Reduction Alternative and one VAR Option 1 - 8 prior to delivery to the land application site. The Class B Biosolids shall be monitored and limited in accordance with the treatment options selected and used by the generator, as identified in the table below.

Treatment Option			
Pathogen Reduction Alternative	Process to Significantly Reduce Pathogens (PSRP) Option	Class B Pathogen Reduction & Vector Attraction Reduction (VAR) Treatment and Standards	Monitoring Requirements
2	3	PSRP: Anaerobic digestion for a mean cell residence time between 15 days at 35° C – 55° C up to 60 days at 20° C. (9VAC25-31-710.D.3.)	1/3M ^{(1) (2)}
VAR Option 1		The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%, calculated according to the method in 9VAC25-31-490.B.8.	1/3M ^{(1) (2) (3)}

1/3M = Once every calendar quarter.

- ⁽¹⁾ Between sampling events, operating records must demonstrate that the Wastewater Treatment Plant (WWTP) is operating at a performance level known to meet pathogen reduction and VAR standards.
- ⁽²⁾ Process monitoring must be sufficient to demonstrate compliance with PSRP and VAR treatment requirements.
- ⁽³⁾ If the selected VAR option 1- 8 is not met, the permittee shall provide notification to the land applier at the time the biosolids are delivered that the biosolids did not meet VAR at the WWTP and that the biosolids must be injected below the surface of the land (9VAC25-31-720.B.9) or incorporated into the soil within 6 hours after application (9VAC25-31-720.B.10). The Permittee shall obtain verification from the land applier that injection or incorporation occurred.

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B. Biosolids Management and Reporting Requirements

1. Approved Biosolids Source Requirement

Only biosolids from a source that has been approved by the DEQ, as identified on the DEQ's *Sources of Biosolids, Industrial Sludges, WTP Residuals* list and treated to meet metals limits, pathogen reduction and VAR standards as set forth in Part III of this permit, shall be given to any person for the purpose of blending or land application.

2. Biosolids Monitoring Frequency and Reporting Requirements

a. Monitoring Frequency

The monitoring frequency shall be once per calendar quarter (1/3M). The monitoring frequency may be increased during this permit term upon written notification by DEQ if deemed necessary.

b. Annual Report

The permittee shall submit an Annual Report not later than February 19th of each year to the DEQ-Northern Regional Office. Each report is for the previous calendar year's activity. If no biosolids were generated and provided to a land applier under this permit during the reporting year, a report shall be submitted stating that no biosolids were generated or delivered during the year.

The report shall include at minimum:

- 1) Part III.A.1. Sewage Sludge Annual Production Monitoring;
- 2) Biosolids Monitoring Data:
 - a) Part III.A.2. Biosolids – Metals Limitations;
 - b) Part III.A.3. Biosolids – Pathogen Reduction and Vector Attraction Reduction (VAR) Requirements; and
 - c) Supporting documentation, including laboratory chain of custody forms and certificates of analyses, shall be submitted with the report;
- 3) A summary of biosolids disposal contracts, if any, currently held with other generators, as well as any other biosolids or sludges currently being handled through subcontracts or other agreements. Include biosolids or sludges given to other generators, contractors or land filled and biosolids or sludges accepted from other generators for treatment or land application;
- 4) Identify other methods used to dispose of or use biosolids or sludge produced during the previous calendar year. Report the annual total amount of biosolids or sludge (in dry metric tons) disposed of or used by each method identified; and
- 5) The annual report shall be certified and signed in accordance with Part II.K.

3. Record Keeping

The permittee is required to retain the following information for at least five years:

- a. The concentrations of each pollutant in Parts III.A.2.;
- b. A description of how the pathogen reduction requirements in Parts III.A.3. are met;
- c. A description of how the vector attraction reduction requirements in Parts III.A.3. are met;
- d. A description of how the management practices specified in the approved Biosolids Management Plan and this permit are met;

- e. The Notice and Necessary Information required in Part III.B.4; and
- f. The following certification statement:

"I certify, under penalty of law, that the information that will be used to determine compliance with the Class B pathogen requirements in 9VAC25-31-710.B.6 and the vector attraction reduction requirements in 9VAC25-31-720.B.6 was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment".

4. Notice and Necessary Information (NANI)

A NANI shall be provided to any person to whom biosolids are provided for the purpose of further treatment, blending or land application. The NANI shall be provided at the time the biosolids are provided if available, but no later than 45 days after the last day of the month in which biosolids were provided. The NANI shall represent the most recent monitoring period.

The NANI shall include at a minimum:

- a. A statement that Class B pathogen requirements in 9VAC25-31-710.A – B were met and the alternative used;
- b. A statement that one of the VAR requirements in 9VAC25-31-720.B.1 through B.8 was met and the alternative used; or
- c. A statement that one of the VAR requirements in 9VAC25-31-720.B.1 through B.8 was not met and incorporation or injection was required;
- d. The notice(s) provided to the land applier when biosolids provided did not meet VAR and required incorporation or injection;
- e. The concentration of total nitrogen (as N on a dry weight basis) of the biosolids; and
- f. The following certification statement:

"I certify, under penalty of law, that the information that will be used to determine compliance with the Class B pathogen requirements in 9VAC25-31-710.B and the VAR requirement in 9VAC25-31-720.B.6 was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification, including the possibility of fine and imprisonment".

5. Biosolids Management Plan (BSMP)

- a. The permittee shall conduct all biosolids/sewage sludge use or disposal activities in accordance with the Biosolids Management Plan approved with the issuance of this permit. The permittee shall maintain the BSMP which consists of the following components:
 - 1) The materials developed and submitted at the time of permit application or permit modification in accordance with 9VAC25-31-100.Q;
 - 2) The Operations and Maintenance (O&M) Manual (sections regarding solids handling and biosolids production and management, etc); and
 - 3) The Odor Control Plan (OCP).
- b. Odor Control Plan (OCP) Requirement – If an OCP is not on file at DEQ, an OCP shall be submitted to DEQ within 90 days of the effective date of this permit.

The OCP shall include at a minimum:

- 1) Methods used to minimize odor in producing biosolids;
- 2) Methods used to identify malodorous biosolids before delivery to the land applier (at the generating facility);
- 3) Methods used to identify and abate malodorous biosolids if delivered to the field, prior to land application;
and
- 4) Methods used to abate malodor from biosolids if land applied.

- c. The BSMP and all of its components shall be incorporated by reference and is an enforceable part of this permit.
- d. Any proposed changes in the biosolids/sewage sludge use or disposal practices or procedures followed by the permittee shall be documented and submitted for DEQ-Northern Regional Office (DEQ-NRO) approval 90 days prior to the effective date of the changes. Upon approval, the revised Biosolids Management Plan becomes an enforceable part of the permit. The permit may be modified or alternatively revoked and reissued to incorporate limitations or conditions necessitated by substantive changes in biosolids/sewage sludge use or disposal practices.

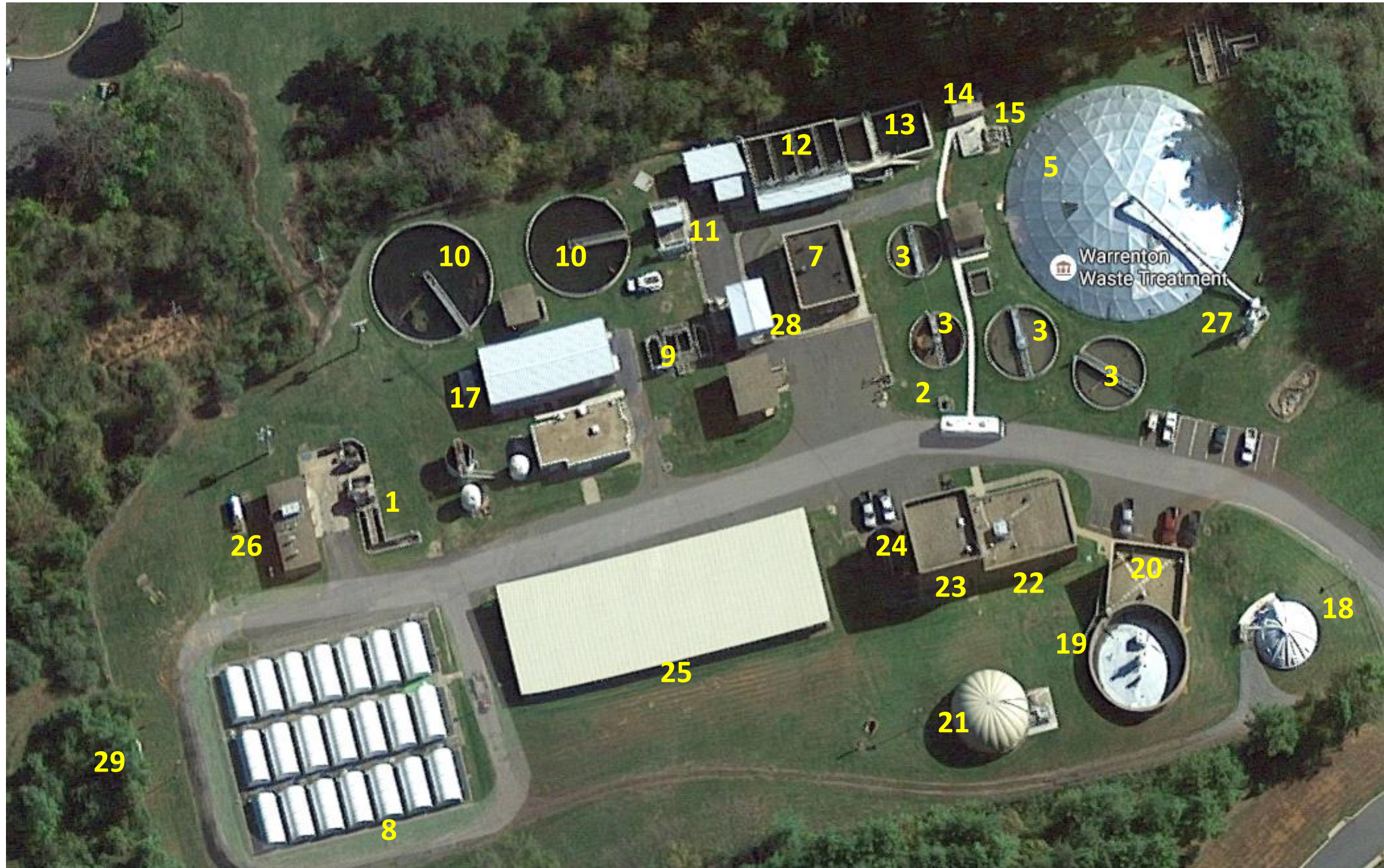
6. Biosolids/Sludge Reopener

The Board may promptly modify or revoke and reissue this permit if any applicable standard for biosolids and/or sewage sludge use or disposal promulgated under Section 405(d) of the Clean Water Act is more stringent than any requirements for biosolids/sludge use or disposal in this permit, or controls a pollutant or practice not limited within this permit.

7. Biosolids Use and Disposal

The permittee shall conduct all biosolids use or disposal activities in accordance with the Biosolids Management Plan approved with the issuance of this permit. Any proposed changes in the biosolids use or disposal practices or procedures followed by the permittee shall be documented and submitted for DEQ-Northern Regional Office (DEQ-NRO) approval 90 days prior to the effective date of the changes. Upon approval, the revised Biosolids Management Plan shall be incorporated by reference and becomes an enforceable part of the permit. The permit may be modified or alternatively revoked and reissued to incorporate limitations or conditions necessitated by substantive changes in biosolids use or disposal practices.

Appendix B
Existing Aerial Site Plan



EXISTING FACILITIES

1. HEADWORKS
2. SPLITTER BOX
3. PRIMARY CLARIFIER
4. TF DOSING TANK
5. TRICKLING FILTER (TF)
6. JUNCTION BOX NO. 1
7. PLANT PUMP STATION
8. RBC UNITS
9. FLASH MIXER & FLOCCULATORS
10. SECONDARY CLARIFIER
11. DENITRIFICATION PUMP STATION
12. DENITRIFICATION FILTERS
13. DENITRIFICATION CLEARWELL
14. UV-FACILITY
15. PLANT UTILITY WATER PS
16. POST AERATION TANK
17. ELECTRICAL GENERATOR BLDG.
18. GRAVITY SLUDGE THICKENER
19. ANAEROBIC DIGESTER #1
20. DIGESTER BUILDING
21. ANAEROBIC DIGESTER #2
22. PLANT CONTROL BLDG
23. SLUDGE DEWATERING BLDG
24. FILTRATE EQ TANK
25. DEWATERED SLUDGE STORAGE
26. RBC BLOWER BUILDING
27. ODOR CONTROL FACILITY
28. METHANOL STORAGE

29. **PLANNED MBBR FACILITY AREA**

WARRENTON WWTP AERIAL PLAN

Appendix C

Wastewater Sampling Data (2016 and 2006 data)

WARRENTON WWTP - WASTEWATER SAMPLING DATA (MARCH 2016)

Plant Influent

Date	Rainfall (inches)	Flow	Flow	WW	BOD ₅ (mg/L)	TSS (mg/L)	Ammonia (mg/L)	TKN (mg/L)	TP (mg/L)	Alkalinity
		Avg (MGD)	Max (MGD)	Temp (C)						CaCO ₃ (mg/L)
2/29/2016	0	2.36	3.8	14.6	123	61	15	24	3.1	140
3/1/2016	0	2.23	3.6	13.1	134	66				
3/2/2016	0	2.14	2.9	14.2	295	137	17	24	2.2	
3/3/2016	0	2.17	3.2	13.3	191	105				
3/4/2016	0	2.10	2.9	13.4	125	45	21	29	3.2	152
3/5/2016	0	1.98	3.7	13.6	256	71				
3/6/2016	0	2.02	3.8	14.0	217	71	20	27	3.4	
3/7/2016	0	2.08	3.6	14.8	190	86				
3/8/2016	0	2.00	3.6	15.1	184	130	24	31	4.0	142
3/9/2016	0	1.94	3.5	15.6	181	62				
3/10/2016	0	1.94	3.7	17.1	250	144	21	34	4.4	
3/11/2016	0	1.81	3.3	17.1	158	81				
3/12/2016	0	1.80	3.2	16.5	204	89	15	31	4.1	144
3/13/2016	0.4	1.76	3.5	15.4	191	86				
Average		2.02	3.5	14.8	193	88	19	29	3.5	145

BFP Filtrate Holding Tank (ammonia sidestream)

Date	BOD ₅ (mg/L)	TSS (mg/L)	Ammonia (mg/L)	TKN (mg/L)
2/29/2016	25	33	287	307
3/4/2016	36	44	276	298
3/8/2016	49	823	336	412
3/12/2016	32	67	276	316
Average	36	242	294	333

Primary Influent (influent + filtrate)

Ammonia (mg/L)	TKN (mg/L)
23.2	33.3

Avg side stream flow (gpm): 20

WARRENTON WWTP - WASTEWATER SAMPLING DATA (MARCH 2016)

Influent ammonia sampling (plant lab analysis)

Date	Plant Lab*) NH3-N (mg/L)	Flow Avg (MGD)	Flow Max (MGD)	ESS Lab **) NH3-N (mg/L)
2/22/2016	18.3	2.32	3.5	
2/23/2016	18.2	2.51	3.6	
2/24/2016	13.0	3.21	6.0	
2/25/2016	11.0	3.32	4.2	
2/26/2016	11.1	2.90	3.3	
2/27/2016	13.1	2.44	3.5	
2/28/2016	11.0	2.36	3.8	
2/29/2016	18.4	2.36	3.8	15
3/1/2016	17.6	2.23	3.6	
3/2/2016	19.6	2.14	2.9	17
3/3/2016	18.6	2.17	3.2	
3/4/2016	20.3	2.10	2.9	21
3/5/2016	23.4	1.98	3.7	
3/6/2016	18.2	2.02	3.8	20
3/7/2016	18.6	2.08	3.6	
3/8/2016	17.2	2.00	3.6	24
3/9/2016	23.5	1.94	3.5	
3/10/2016	24.7	1.94	3.7	21
3/11/2016	27.4	1.81	3.3	
3/12/2016	15.7	1.80	3.2	15
3/13/2016	14.0	1.76	3.5	

High flow period

*) Grab samples. Analysis completed daily at 5 PM.

**) Composite sample based on three (3) daily grab samples

**Town of Warrenton WWTP
Influent Wastewater Sampling Plan – 2016**

	Plant Influent ¹							BFP Filtrate Tank Ammonia Sidestream ²			
	BOD ₅	TSS	TKN	NH ₃	TP	Alka ³	pH	BOD ₅	TSS	TKN	NH ₃
Day Date											
1	X	X	X	X	X	X	X	X	X	X	X
2	X	X									
3	X	X	X		X						
4	X	X									
5	X	X	X	X	X	X	X	X	X	X	X
6	X	X									
7	X	X	X		X						
8	X	X									
9	X	X	X	X	X	X	X	X	X	X	X
10	X	X									
11	X	X	X		X						
12	X	X									
13	X	X	X	X	X	X	X	X	X	X	X
14	X	X									
Total Samples	14	14	7	4	7	43	4	4	4	4	4

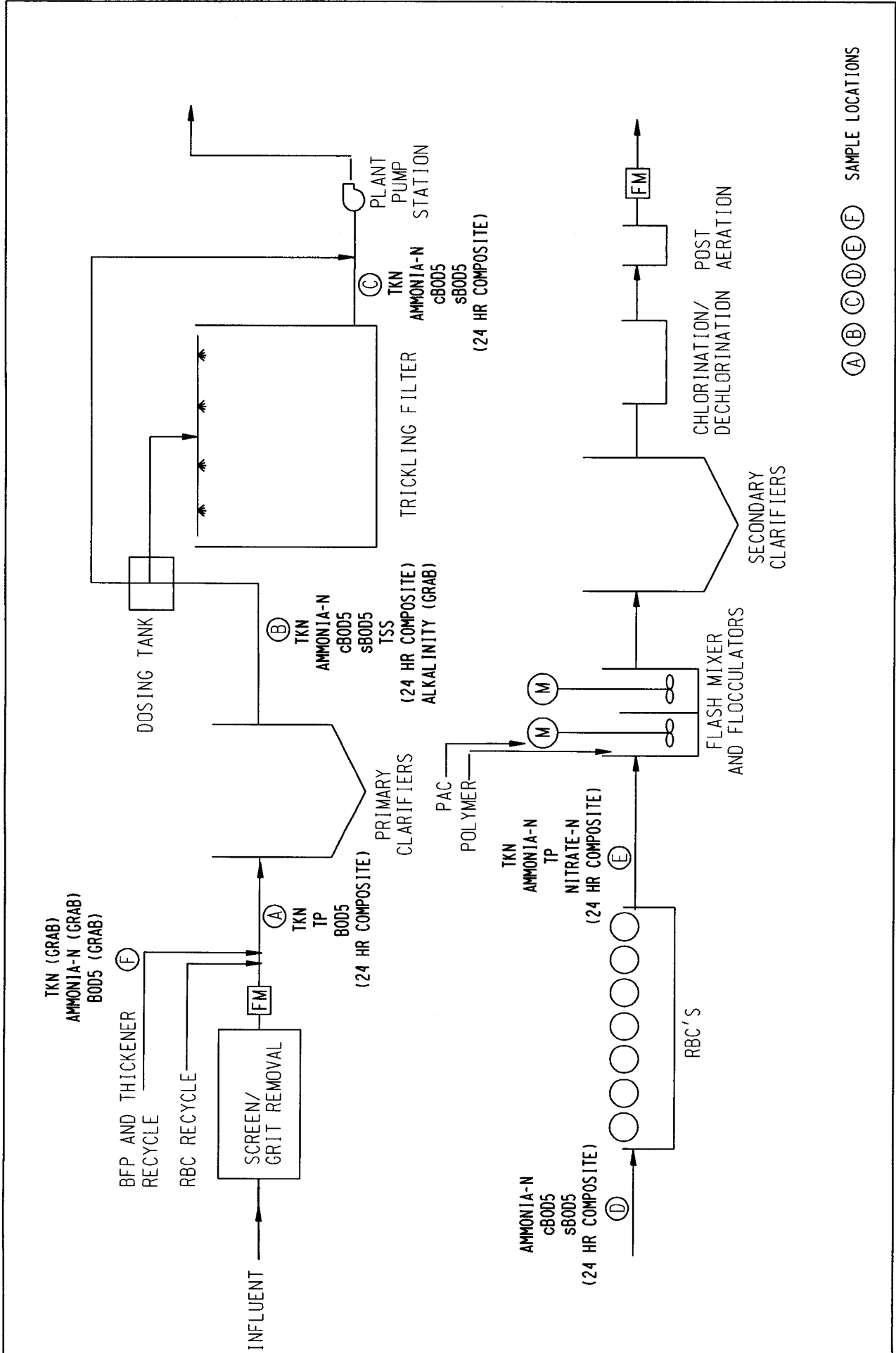
Notes:

1. Influent Sampling: One composite sample for analysis, based on three (3) discrete manual grab samples collected at 8AM, 4PM and 10PM. Influent samples shall be collected after the screen and grit removal, but before the influent flow meter (i.e. upstream of the location where the RBC recycle flows enters).
2. Holding Tank Sampling: One manual grab sample (no composite needed) when the tank is in draining mode.
3. Alkalinity measurements can be performed in-house at the WWTP lab.



Warrenton WWTP - Supplemental WW Sampling/Characterization (March 2006)																
Date March 2006	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Units	Average
Centrate TKN	215	206	183	173	174	156	145	202	197	183	181	193	187	192	mg/L	185
Centrate NH3-N	180	160	120	120	110	130	120	110	110	120	110	100	100	120	mg/L	122
Centrate BOD	LE	LE	LE	LE	LE	LE	LE	LE	LE	22	7	4	6	7	mg/L	9
Primary Influent TKN	25	29.2	29.8	30.9	25.3	28.1	29	30.3	28.7	30.5	32.7	40	28.2	30.5	mg/L	30
Primary Influent TP	5.44	5.47	6.11	7.8	5.53	6.11	7.15	7.28	6.25	6.12	7.63	6.46	6.73	6.73	mg/L	6.5
Primary Influent BOD	182	157	92	LE	200	50	250	99	105	117	172	155	159	168	mg/L	147
Primary Effluent TKN	23.7	24.5	25.3	22.8	23.6	24.2	24.7	25	25.3	25.4	24	27.4	24	24.8	mg/L	25
Primary Effluent NH3-N	19	18	18	17	17	18	16	15	16	17	15	15	16	18	mg/L	17
Primary Effluent cBOD	111	126	91	116	117	113	119	117	106	121	119	119	81	101	mg/L	111
Primary Effluent sBOD	34	48	40	46	44	49	46	67	48	44	34	52	45	60	mg/L	47
Primary Effluent TSS	95	69	79	93	79	100	95	89	82	92	88	87	89	80	mg/L	87
Primary Effluent ALK	142	128	114	142	174	180	268	130	190	200	140	136	160	160	mg/L	162
Trickling Filter Effluent TKN	11.5	12.5	11.1	11.4	12.1	12.4	12.6	14.6	13.8	13.8	12.7	12.4	18	13.3	mg/L	13.0
Trickling Filter Effluent NH3-N	8.6	8.8	8.3	7	6.7	8	7.3	7.5	8	7.8	6.8	6.5	7.1	8	mg/L	7.6
Trickling Filter Effluent cBOD	15	15	11	24	36	16	23	47	17	19	19	17	13	13	mg/L	20
Trickling Filter Effluent sBOD	4	6	3	< 3	3	< 4	5	18	< 3	< 3	< 4	< 4	< 4	< 4	mg/L	6.5
RBC Influent NH3-N	10	10	10	8.8	7.6	8.9	9.2	8.6	8.8	8.6	7.6	7.8	7.1	8.2	mg/L	8.7
RBC Influent cBOD	24	23	7	25	19	20	25	36	11	21	22	19	11	15	mg/L	20
RBC Influent sBOD	4	< 3	3	< 3	< 3	< 4	< 3	10	< 3	< 3	< 4	< 4	< 4	< 4	mg/L	5.7
RBC Effluent TKN	5	5.96	5.73	6.74	6.46	5.34	6.18	8.15	5.62	8.17	7.05	6.77	7.05	7.31	mg/L	6.5
RBC Effluent NH3-N	0.17	0.16	0.16	0.17	0.15	0.12	0.16	0.15	0.2	0.21	0.14	0.11	0.11	0.1	mg/L	0.2
RBC Effluent TP	4.5	4.95	5.18	4.57	4.88	4.82	5.14	4.95	5.36	5.58	5.38	5.36	4.9	5.1	mg/L	5.0
RBC Effluent Nitrate-N	0.67	15.8	15.9	14.1	0.67	12.7	14.8	15.4	15.4	16.7	15.8	13.9	13.8	16.7	mg/L	13.0
LE Lab Error																





WARRENTON WASTEWATER TREATMENT PLANT	W.O.:	18245	DATE:	FEB 2006
	SCALE:	NONE	DWG. NO.:	
	FILE NAME: n:\18245\CADD\Process\process schemat Thu Feb 16 08:54:38 2006			
SAMPLING PLAN				
 REQUARDT AND ASSOCIATES, LLP 1 SOUTH CAROLINE STREET BALTIMORE, MARYLAND 410 - 235 - 3450				
451				

Item a.





Office of the Town Manager

Frank Cassidy

STAFF REPORT

Warrenton Town Council

Carter Nevill, Mayor
Heather Sutphin, Ward 1
William Semple, Ward 2
Brett Hamby, Ward 3
James Hartman, Ward 4 Vice Mayor
Jay Heroux, Ward 5
Paul Mooney, At Large
David McGuire, At Large

Item b.

Council Meeting Date:	October 10 th , 2022
Agenda Title:	Public Works, Roads, and Project Updates
Requested Action:	Receive the report from Staff with information for discussion.
Department / Agency Lead:	Public Works and Community Development
Staff Lead:	Michael Wharton/John Ward/Frank Cassidy/Johnny Switzer/Denise Harris

EXECUTIVE SUMMARY

Public Works, with Facilities, Community Development, and the Police Department continue to be engaged in many projects around the Town. The current projects for discussion in this report are:

1. New Town Hall
2. Old Town Hall- 18 Court St.
3. New Public Works Facility
4. Road and Infrastructure Improvements- Walkability and Complete Streets
5. Fleet and Facilities
6. Roundabouts

The purpose of this agenda item is to provide an overview and status of each of these projects,

BACKGROUND

For clarity and ease of navigation, we will break the history of each item separately:

1. **New Town Hall-** New Town Hall, 21 Main St. is a former bank building. It was purchased by the Town in November of 2019. This was a product of several discussions and meetings based upon the facilities at 18 Court St. (Old Town Hall) becoming a major challenge for day-to-day Town functions and meetings. The space, in short, was too small. The objective of the New Town Hall was to provide professional office space for staff versus the failing and undersized cubicles; to consolidate services, and to provide a more effective operational capacity. The pandemic closed Old Town Hall in March 2020 and provided the opportunity to transition to New Town Hall. Relocation of staff started in June 2020 and was officially open for business in August 2020. The bond will be paid off in 2039, the Series 2021B General Obligation Bond.
2. **Old Town Hall- 18 Court St.-** The Town retains ownership of this building. It has been vacant since New Town Hall was occupied. As recently as this year, we began to explore options for new use of this facility. Town Council was briefed at a Council Work Session in September 2023 regarding collaboration with the local VFW and the County for sharing the use of this space for additional meetings, joint training sessions, tabletop exercises for emergency management, and some offices

for Public Works and Utilities staff to take some pressure off the Public Works Facility on Falmouth St.

- 3. **Proposed Public Works Facility-** This project started in talking phases in early 2021, Council meetings and meetings with County staff were conducted through 2021 and most recently in the budget cycle for our current budget. Bohler Engineering was hired to conduct preliminary site assessments. The current facility was built in the 1950s as the Bell telephone company and has received minimal modifications or updates since then. The Town occupied the facility in 1975. The facility needs many repairs that are critical to the continued operation of a public works and utilities department. Many of the support structures are beyond their life expectancy and would require complete removal and replacement. This is in addition to the condition of the maintenance garage and aging offices. A report on the condition of the existing Public Works Facility was completed in October 2021 and presented to the Council. As recently as June 2022, at a Council Works session regarding the budget, the Council directed staff to continue to move forward with this project. We are still in the very preliminary stages of site work assessment. Currently, the landfill is going through some site work which may lend itself to the opportunity for the Towo to move its salt shed and some equipment storage to the site to stage the improvements. We are working with County staff on moving forward. Additionally, we are looking for ways to take pressure off the system by identifying additional training space, alternative space for storage of small items like signs, and changing office assignments. The Old Town Hall building is one of these options.

- 4. **Road and Infrastructure Improvements- Walkability and Complete Streets-** The onboarding of a Project Manager has created an opportunity for the development of a five-plus-year plan for roads and infrastructure. The staff has assessed the conditions of the roads and sidewalks, they are applying the concepts of the Walkability and Complete Streets studies completed in 2017, which established the foundation for Town-wide objectives, and they are implementing their plan to resurface the roadways; repair aging sidewalks; bring sidewalks up to ADA standards; provide multi-modal lanes; and connect sidewalks. The current projects were Walker Dr., Falmouth St. (SGR with VDOT), Lee Highway from Blackwell to the interchange (SGR VDOT), Timberfence Rd., and under construction, Winchester St., and several connecting streets. The assessment criteria and plan are attached. Staff is starting to implement these infrastructure improvements with the worst condition areas and working our way around Town.

Traffic calming/Speed reduction Strategies- Staff is currently developing a "Traffic Task Group" which is a small group of staff subject matter experts from Public Works, Police, Engineering, and Community Development. This task group is designed to address on-site improvements to complaints and safety hazards. This group is responsible for many of the efforts we see around Town today including the new "Neighborhood Slow Zone" signs, the placement and movement of message boards, installing additional stop signs and speed indicator signs, and identifying proper placement for additional crosswalks. They are also working on the design for the "Court House Square" traffic flow and implementing additional concepts like temporary speed tables.

5. **Fleet and Facilities-** The Town of Warrenton merged its Fleet Services Division to become a Facilities and Fleet Management Division within the Department of Public Works and Utilities. This merger has created many efficiencies and cost savings. This was a responsibility which was not adequately addressed in prior years. The intent for Facilities is to develop an effective team based on predictive maintenance. This team works closely with all other departments to maintain all of the town's facilities which include signs, traffic lights, light poles, pedestrian safety devices, buildings, green spaces, parking lots, etc. They also provide daily maintenance to New Town Hall, Old Town Hall, Police, Public Works, the plants, and all facilities for Parks and Recreation.

By merging the two divisions, the Town of Warrenton has been able to:

- Reduce administrative costs
- Improve communication and coordination between the two divisions
- Streamline processes and procedures
- Cross-train staff
- Share resources and equipment

The merger has also allowed the Town to develop a more comprehensive and strategic approach to facilities and fleet management. This has resulted in better planning, budgeting, and maintenance practices.

Overall, the merger of the Fleet Services and Facilities Divisions has been a success for the Town of Warrenton. It has created a more efficient and effective organization that is better able to meet the needs of the community.

Sanitation and Recycling Trucks; We purchased two new recycling trucks during the pandemic through ARPA funds. Unfortunately, their delivery suffered a major delay because of supply chain issues. We maintain two recycling trucks and two sanitation trucks with one requiring replacement in FY25. Our sanitation crews provide twice-a-week trash and once-a-week recycling. We are currently re-evaluating the refuse program and the impact that the recycling trucks have on the refuse system.

Police Vehicles: The Police department has a take-home vehicle policy. In the past three years, we have replaced ten police vehicles with funding from the general fund and a grant. These vehicles are replaced based upon the Fleet Replacement Plan of eight (8) years or 115,000 miles.

The Town of Warrenton was recently designated as one of the NAFA Top 50 Green Fleets and awarded Rookie of the Year for its commitment to sustainability. The Town's Police Department hybrid vehicle program, which currently makes up 50% of their fleet, is saving the town a significant amount of money on fuel and reducing its environmental impact.

The Town's Police Department hybrid vehicle program is a prime example of its commitment to sustainability. Hybrid vehicles are more fuel-efficient than traditional gasoline-powered vehicles,

which means that they save the Town money on fuel costs. In addition, hybrid vehicles produce fewer emissions, which helps to improve air quality and reduce the Town's environmental impact.

WARF- The Warrenton Aquatic and Recreation Facility (WARF) has experienced several challenges over the past two years. The overall objective is to modernize all aspects of the WARF, and all other facilities, as parts require replacement. Although not the only facility in Parks and Recreation, the WARF is the most challenging given the amenities and use. The current condition of the WARF is good to fair as it requires several repairs that are pending. The exterior walkway and front entrance area was damaged by a water line break earlier this year. Correcting this damage will also require interior repairs. Including the WARF, the modernization of all Parks and Recreation facilities involves bringing ADA requirements up to standards, replacing aging covered areas, restoring the streams on property, and implementing the Eva Walker Park Master Plan while engaging in a comprehensive Parks and Recreation Master Plan.

6. **Roundabouts-** The Town has a long-standing goal to increase safety, traffic calming, gateway enhancements, and walkability going back at least 25 years.
- 2002 Comprehensive Plan 2000-2025 included these objectives and a Lee Highway/Winchester roundabout on the Future Land Use Map.
 - 2018 Update to the Comprehensive Plan included a Lee Highway Urban Development Area (UDA) that included the goal of roundabouts on Lee Highway.
 - Plan Warrenton 2040 includes these objectives/policies/goals and metrics to increase roundabouts.
 - 2021-2022 VDOT Pipeline Study of Lee Highway found roundabouts in these locations were the preferred safety design improvement.
 - Town worked with VDOT on 2020 Smart Scale Round 4 (unsuccessful) and 2022 Round 5 (successful) applications for these roundabout locations.

100% VDOT Smart Scale Round 5 funded. There is no obligation to cost share with Smart Scale and the Town did not allocate any monies.

To review the process for the roundabouts:

- Comprehensive Plans have extensive public outreach efforts, that include the transportation section, through the development and adoption process.
- UDA Adoption included a citizen Steering Committee, 1/19/2017 Public Workshop, 10/24/2017 Joint Work Session Town Council and Planning Commission, 2/20/2018 Planning Commission Public Hearing, and 3/13/2018 Town Council Public Hearing and Resolution.
- Capital Improvement Plans (CIPs) are approved annually by the Town Council with multiple work sessions and public hearings as part of the budget cycle. The Planning Commission reviews all CIP land use projects for conformance with the comprehensive plan. These roundabouts may be found in the last three CIPs.
- VDOT Pipeline Study conducted public outreach and a survey in February 2022; Town advertised the survey on its social media and website. Pipeline study Town Council Work Sessions were held on 11/9/2021 and 3/8/2022. The final VDOT Pipeline study found roundabouts to be the preferred improvements.

- Town Council applied for a Round 4 Smart Scale grant for the roundabout at Lee/Broadview/Winchester after a public hearing held on 10/13/2020.
- Town Council applied for a Round 5 Smart Scale grant for roundabouts at Lee/Broadview/Winchester and Lee/Blackwell after a public hearing on 7/12/2022.

Through all the above, the Town staff is not aware of any objections at this time.

There are multiple benefits to roundabouts. These intersections were identified as needing further study by VDOT to meet the mid-term needs of the Virginia Commonwealth Transportation Board adopted VTrans vision, goals, and objectives. The corridor was identified as “Very High” for Transportation Demand Management and Congestion Mitigation. It was identified as “High” for bicycle access, pedestrian access, and safety improvements. Both intersections are listed as Priority 1 for the VDOT Construction District due to their high needs. VDOT lists the benefits of roundabouts as:

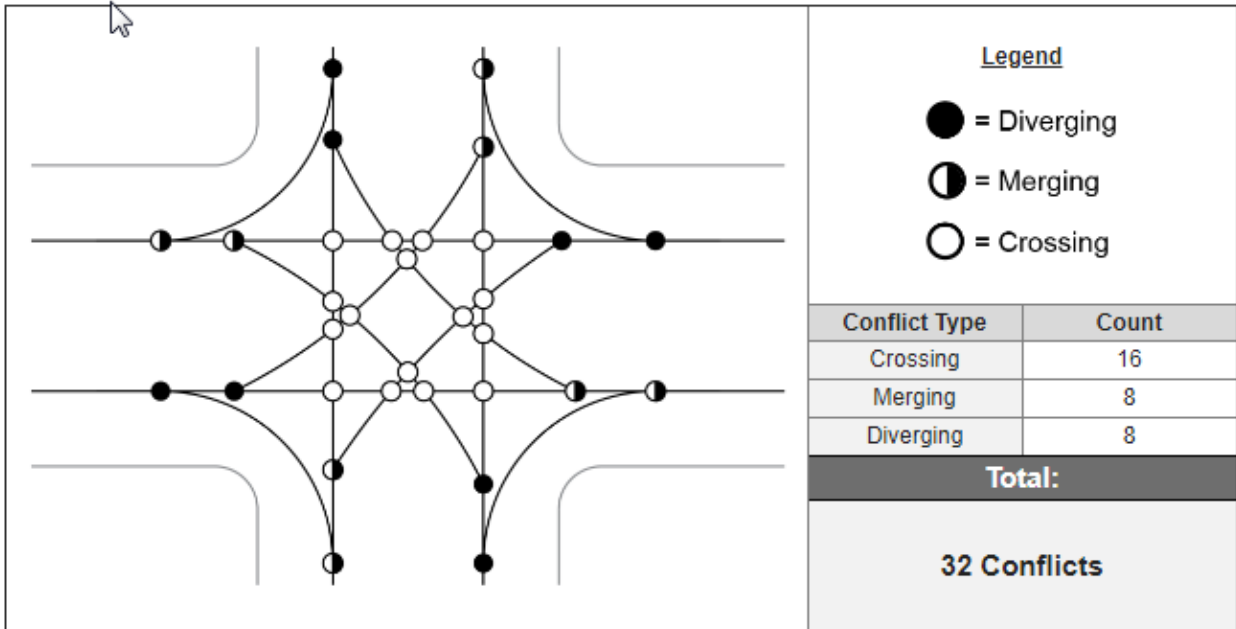
- **Improved safety:** Reduces the number of points where vehicles can cross paths and eliminate the potential for right-angle and head-on crashes.
- **Increased efficiency:** Yield-controlled design means fewer stops, fewer delays, and shorter queues.
- **Safer speeds:** Promotes lower vehicle speeds, giving drivers more time to react.
- **Long-term cost-effectiveness:** No traffic signals mean lower long-term costs for operations and maintenance.
- **Aesthetics:** Allows for landscaping and beautification

Traffic Calming/Safety

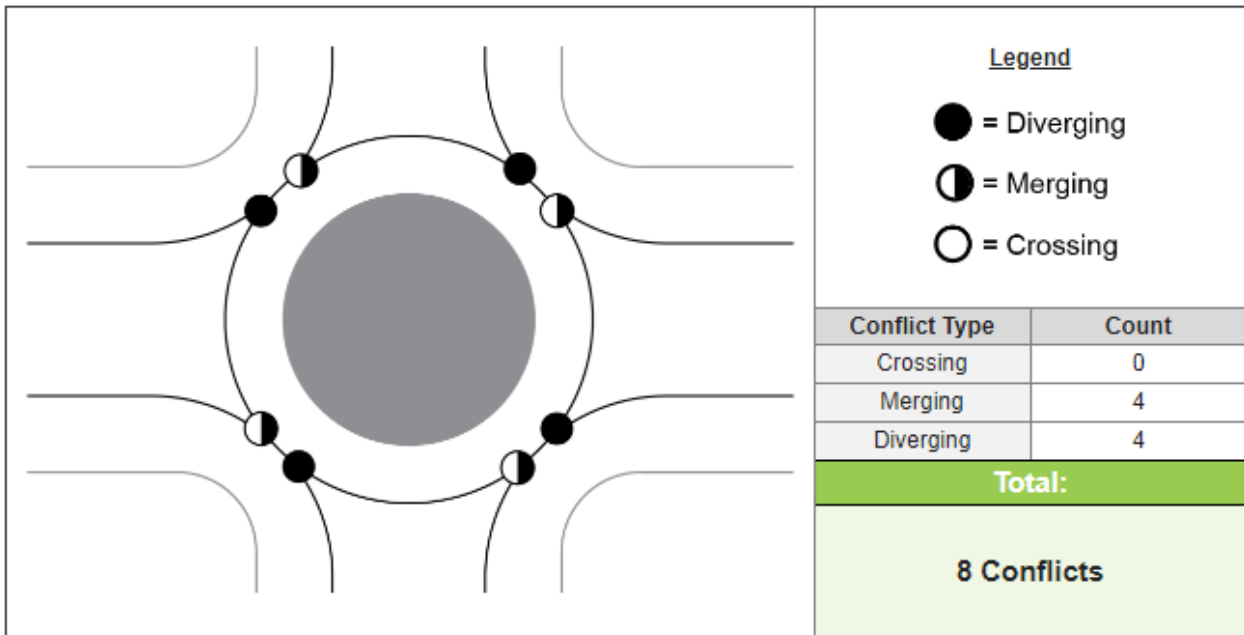
A total of 184 crashes were reported along Lee Highway during a five-year study period. 46 crashes at Lee/Broadview/Winchester; 42 crashes at Lee/Blackwell.

Alternative intersections (e.g. roundabouts) lead to less conflict points than a conventional intersection, which leads to greater safety benefits as illustrated in the VDOT graphic below:

Conventional Intersection: Conflict Points



Roundabout: Conflict Points



Congestion Mitigation

Lee/Broadview/Winchester was found to be operating at a Level of Service (LOS) of E and F for left turn movements. A roundabout improves this to LOS of C, and a B overall for the intersection. Benefit in overall intersection delays 60% lower than no build.

Lee/Blackwell was found to be operating at a LOS of D for the intersection. A roundabout improves the LOS to a B. The Greatest benefit in the overall intersection delay is 71% lower than no build.

Bicycle/Pedestrian Improvements

Both projects include bicycle and pedestrian safety improvements with the construction of pedestrian crossings and medians, HAWK signals, and sidewalks.

STAFF RECOMMENDATION

Receive the report from Staff with information for discussion.

Service Level / Policy Impact

These projects are all objectives of our Plan 2040-

Community Facilities Goals:

CF-1: Serve as the central inviting public service center for the Town and County residents with a proportionate share of community services provided by other governments, including a fair and reasonable balance in funding sources for community facilities.

CF-3: Green infrastructure and sustainability are incorporated into community facilities to promote energy efficiency and environmental protection.

Open Space, Parks, & Environment Goals:

P-1: Preserve, enhance, and protect the environmental, scenic, and natural quality of the Town.

P-3: Infrastructure. All Town residents will have the opportunity to access its recreational assets and natural resources, including public spaces and recreational amenities.

P-4: Create a long-term approach to the development of parks, recreation, and open space in the Town of Warrenton.

Transportation and Circulation Goals:

T-1: Improve multi-modal capacity and safety that encourages trips by walking, bicycling, and transit.

T-2: Enhance the traveling experience by creating great streets.

T-3: Promote livability in the Town by creating great places where residents and visitors feel welcome and safe.

T-4: Provide Equitable and connected Multi-Modal Network.

Fiscal Impact

Projects are funded through VDOT grants, our current CIP, CARP, and standard maintenance budgeting.

Legal Impact

N/A

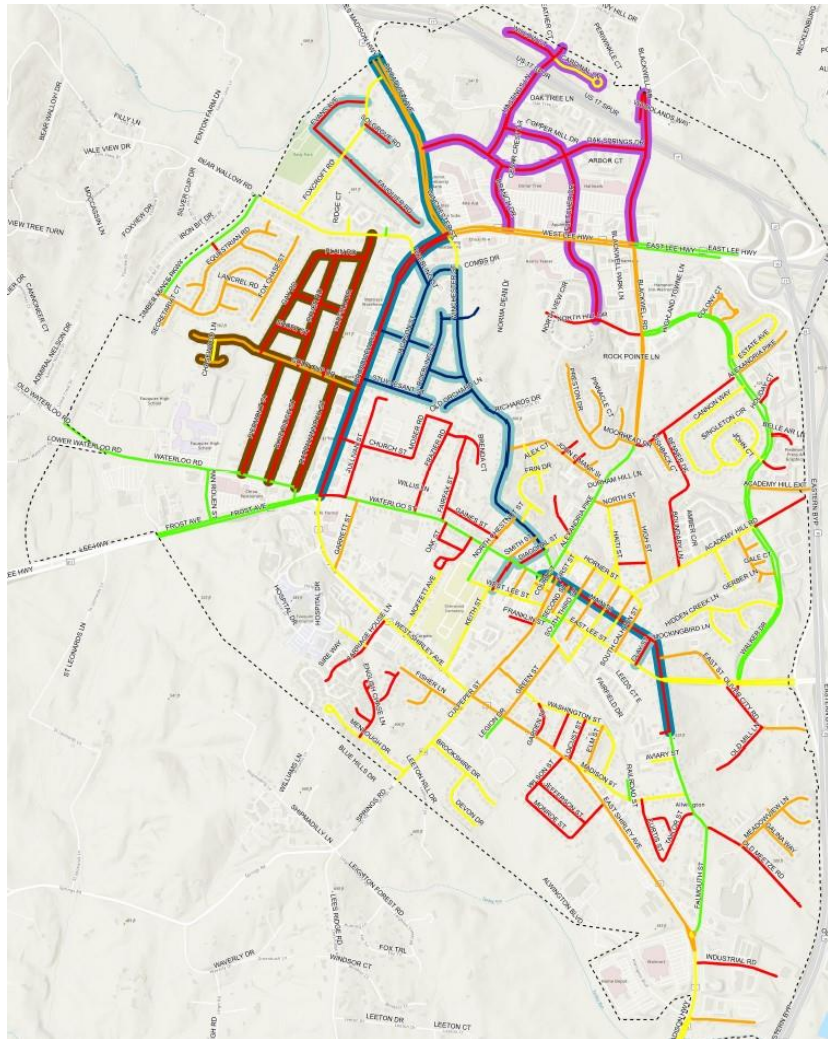
ATTACHMENTS



Item b.

The Town of Warrenton
P.O. Box 341
Warrenton, VA 20188
P (540) 347-1101
F (540) 349-2414

October 2023 Road Conditions Report



VDOT State of Good Repair

- **VDOT State of Good Repair Program- Local Pavement Program**
 - 100% funding from VDOT via FHWA
 - ADA Ramps upgraded to present standards
 - Mill and overlay deteriorated streets

- **SGR targets for October 2023 application**
 - Main Street- from Courthouse Square to Falmouth Street
 - Falmouth Street- from Main Street to Falmouth Court
 - Blackwell Road- from Walker Drive to Lee Highway

Pavement Overlay and Sidewalk Replacement Plan

- **FY-24 Pavement Overlay Schedule**
 - Bid process started May 8, 2023
 - Awarded July 2023
 - Collector Routes
 - Winchester Street
 - Pelham Street
 - Clay Street
 - Diagonal Street
 - Jackson Street
 - Forbes Court
 - Stuyvesant Street
 - Chappell Street
 - Roebling Street
 - North Court
 - Fauquier Road
 - Evans Avenue
 - Fix broken curbs and sidewalks on proposed routes
 - Estimate 35% to 40% replacement
 - Sidewalk Repairs- completed on Winchester Street
 - Asphalt placement scheduled for October 2023

➤ **FY-25 Pavement Overlay Schedule**

- Award PO July 2024
- Collector Routes
 - Branch Drive
 - Fletcher Drive
 - Oak Springs Drive
 - Hastings Lane
 - Willow Court
 - Rappahannock Street
- Fix broken curbs and sidewalks on proposed routes
 - Estimate 35% to 40% replacement
- Sidewalk Repairs- August 2024
- Asphalt placement- TBD
- Estimated Funding Request- \$850,000.00

➤ **FY-26 Pavement Overlay Schedule**

- Award PO July 2024
- Collector Routes
 - Blue Ridge Street
 - Piedmont Street
 - Norfolk Drive
 - Dover Road
 - Gold Cup Drive
 - Short Street
 - Beacon Road
- Fix broken curbs and sidewalks on proposed routes
 - Estimate 35% to 40% replacement
- Sidewalk Repairs- August 2025
- Asphalt placement- TBD
- Estimated Funding Request- \$700,000.00

➤ **Pavement Evaluation**

- Create a 5-year and 10-year pavement plan
- Forecast future funding demands

Sidewalk Construction

➤ **Fauquier Road**

- Started Preliminary Engineering on September 28, 2023

- Survey work completed by end of October 2023
 - Concept Plan completed by February 2024
 - 30% Design completed by July 2024
 - Submit for VDOT funding
- **Academy Hill Road**
- Meeting with VDOT for best approach for application funding source in November 2023
- **Washington Street**
- Update existing plans
 - Start construction by Fall 2024
- **Future Sidewalks in planning stage**
- Gay Road
 - Foxcroft Road

Transportation & Safety Improvements

- **Courthouse Square**
- November 2023- Studies will begin on best approach to improve the safety of the existing intersection
 - Coordination meeting among staff is in progress
- **Waterloo Street**
- Multi-phase approach is in effect.
 - Speed trailers have been deployed.
 - Future traffic calming measures
 - Install mobile speed detection signs.
 - Install a speed table between Garrett Street and Middle School
 - Install a Chicane hardscaping between Sullivan Street and Garret Street
- **Alexandria Pike**
- Staff is studying the best solution to improvement conditions at Preston Drive



Wastewater Treatment Plant

Upgrade and Expansion

Preliminary Engineering Report

Town of Warrenton, VA

Department of Utilities

March 2022



TOWN OF WARRENTON WASTEWATER TREATMENT PLANT UPGRADE AND EXPANSION PRELIMINARY ENGINEERING REPORT

EXECUTIVE SUMMARY

The Town of Warrenton's existing wastewater treatment plant is rated and permitted for 2.5 million gallons per day (MGD) average daily flow (ADF). The plant has undergone several upgrades and expansions since its original construction in the 1950's. In 2009 the plant was upgraded for nutrient reduction (nitrogen and phosphorus) as part of the Chesapeake Bay Restoration Program. In 2021 the plant's trickling filter and Rotating Biological Contactors (RBCs) were replaced with a "Moving Bed Bio-Reactor" (MBBR) process. The MBBR is a newer and more efficient technology that combines the functions of the trickling filter and RBCs into one process tank. In addition, this new process can be expanded to handle additional flows and wastewater loads.

As plant flows have gradually increased over the past decade, with monthly average flows sometimes approaching 80-90% of the permitted capacity, the Town has recognized the need to assess the reliable treatment capacity of the existing facilities and, if the treatment capacity can be expanded, what upgrades would be required. In May 2017, WRA performed a capacity assessment to evaluate what would be required for the plant to expand to 3.0 MGD, with the Town anticipating the need for an additional 0.50 MGD (20% increase) capacity above the current rated 2.5 MGD capacity. In 2019, WRA performed a supplemental capacity assessment to expand beyond 3.0 MGD. The findings suggested that an expansion to 3.0 MGD would be the most practical and economically feasible to achieve. In February 2020, WRA also prepared a separate Solids Handling Facility Evaluation Report addressing required upgrades to the solids handling processes.

This Plant Upgrade and Expansion Preliminary Engineering Report (PER) serves to combine the previous Plant Capacity Evaluations with the Solids Handling Facility evaluations and updated plant information since the installation of the MBBR process (startup in early 2021) and provides the basis of design for the upgrade and expansion of the existing plant from 2.5 MGD to 3.0 MGD average daily flow (ADF).

Current annual average plant flows are about 70-80% of the permitted capacity and when to expand the Town's wastewater treatment capacity depends on the rate of growth in the service areas. For planning level purposes, it is assumed that the design for a plant expansion in a CIP program would be completed and ready for construction within the next 5 – 10 years. The capacity expansion would include several major items: New Headworks Facilities (Screen and Grit), New Primary and Secondary Clarifiers and associated pumping stations (to replace existing clarifiers), and new additional Primary Digester. The Town has had discussions with the VADEQ about incorporating plant expansion provisions in the next permit cycle. New discharge limitations associated with 3.0 MGD ADF would be included in the permit and conditional upon the full implementation of the plant expansion elements as recommended in this PER.

"Near-term" improvements are also recommended and include needed plant upgrades and retrofits planned for the next 0 – 5 years to keep the plant reliably operating and extend the service life of treatment processes and equipment. These are considered part of the Town's Capital Asset Replacement Program (CARP). From a fiscal planning aspect, short term (0 – 2 years) and intermediate term (2 – 5 years) improvement phases are considered with planning level construction costs for each phase at \$1 - 1.5M and \$5.5 - 6.0M, respectively. The plant expansion (CIP) construction budget cost is \$12.5 – 13.0M, thus the total CARP+CIP is about \$20M. Further details are presented in **Section 7** "Recommended Facility Plan".

A preliminary site facility layout for the plant expansion is included in **Appendix J**.

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APPENDICES

Appendix A	Plant Discharge Permit
Appendix B	Existing Site Plan (Aerial and Topo)
Appendix C	Wastewater Sampling Data
Appendix D	Flow Chart – October 29, 2021
Appendix E	Headworks Facility – Concept Plan (w/Screen, Washer-Compactor & Vortex Grit Tank)
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Appendix G	Vertical Solids Handling Pumps (plant pump station)
Appendix H	Secondary Rectangular Clarifier Information Sheets
Appendix I	Preliminary Plant Hydraulic Profile
Appendix J	Proposed Facility Layouts (A & B) – Plant Expansion
Appendix K	Solids Handling Facilities Report (w/appendices)

1 BACKGROUND

The Town of Warrenton owns and operates an advanced wastewater treatment plant currently permitted for 2.5 million gallons per day (MGD). The original plant was constructed in the late 1950's as a single stage 0.5 MGD trickling filter plant followed by an expansion to 1.0 MGD in 1978. A major plant upgrade and further expansion was completed in 1990 to provide a total of 2.5 MGD treatment capacity and to meet effluent limits for Total Kjeldahl Nitrogen (TKN). A rotating biological contactor (RBC) process was added to expand and improve the biological treatment, including a new primary and secondary clarifier. New solids handling facilities were also constructed, including sludge thickening, anaerobic digestion and sludge dewatering. Later, in 1998 the plant was modified again to achieve compliance with effluent ammonia-nitrogen limits by upgrading the RBC units. In 2007, the plant's gas chlorine disinfection system was replaced with a UV-disinfection system, followed by a facility upgrade to comply with nutrient reduction requirements for nitrogen and phosphorus through the Virginia Water Quality Improvement Fund as part of the Chesapeake Bay Restoration program. The plant operates under VPDES permit No. VA0021172, included in **Appendix A**.

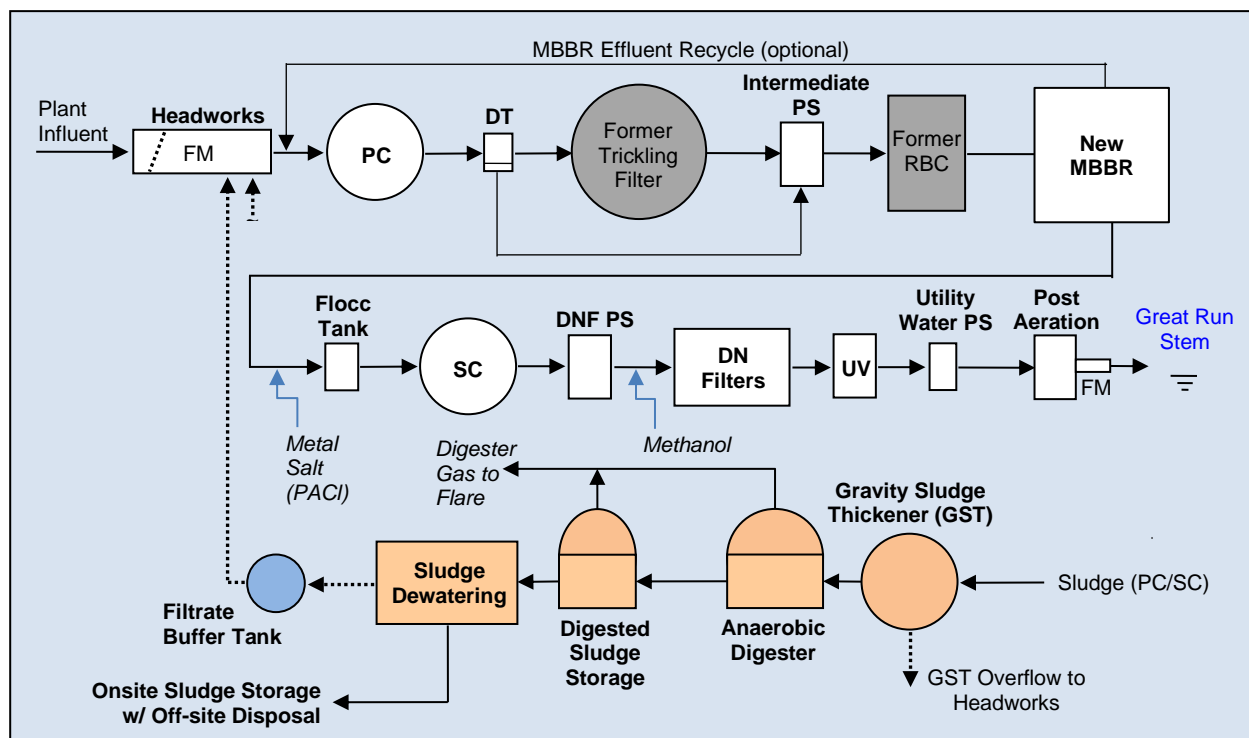
The plant has historically performed well and has consistently complied with its effluent permit limits for BOD₅, TSS, ammonia and bacteria (e.coli). In addition, the plant has met nutrient removal requirements for total nitrogen and total phosphorus since the plant was upgraded to meet nutrient removal requirements in 2009. In 2021, the original single stage trickling filter and conventional rotating biological contactors (RBC), were replaced with a "Moving Bed Bio-Reactor" (MBBR) process, a newer technology that combines BOD removal and nitrification into one process tank. Similar to the trickling filter/RBC, the MBBR is an attached growth process where the biofilm is attached to small plastic carriers suspended in the wastewater within the reactor tank by process air and/or mechanical mixing. The plastic carriers are retained in the tank by retaining screens while treated wastewater passes through to the secondary clarifiers. Since the startup of the MBBR process in early 2021, the performance (BOD and ammonia removal) has equaled or exceeded the old TF-RBC processes.

Daily plant flows have slightly increased over the past decade and have averaged on an annual basis about 2.0 MGD in recent years. The plant has also experienced consecutive months with monthly average flows near 90% of the current permitted flow of 2.5 MGD. After discussions with staff and evaluations of current performance and potential capacity expansions, it was deemed reasonable that the current capacity could increase to 3.0 MGD. In February 2020, WRA also performed a separate Solids Handling Facility Evaluation Report that addressed required upgrades to the solids handling processes. This Plant Upgrade and Expansion Preliminary Engineering Report (PER) serves to combine the previous Plant Capacity Evaluations with the Solids Handling Facility Evaluations and updated plant information since the installation of the MBBR process and provides the basis of design for the upgrade and expansion of the existing plant to 3.0 MGD average daily flow (ADF).

2 EXISTING TREATMENT FACILITIES

2.1 Existing Process Configuration

The current plant process flow is illustrated below and described in the following.



Existing Plant Process Flow Diagram

Raw wastewater from the Town’s collection system enters the preliminary treatment works which include mechanical screening, aerated grit removal and influent flow metering (FM). Metered flow is conveyed via gravity to the primary clarifiers (PC). Primary Effluent is pumped (via the intermediate plant pumping station) to the Moving Bed Bio-Reactor (MBBR) process for BOD removal and to provide nitrification to comply with the plant’s effluent ammonia limits. MBBR effluent flows to the secondary clarifiers for suspended solids removal. A flash mixing/flocculation tank is provided upstream of the secondary clarifiers for addition of Metal salt (poly-aluminum chloride, PACl) for phosphorus removal and improved solids removal.

Secondary fully nitrified effluent is conveyed to the denitrification (DN) pumping station and pumped to the tertiary denitrification (DN) filters for total nitrogen removal, and for additional phosphorus and solids removal. Spent backwash water from the denitrification filters is discharged to the intermediate plant pumping station. Denitrified filter effluent flows through the UV-disinfection reactors, followed by mechanical post aeration and effluent flow metering (FM) before final discharge to Great Run, a tributary to Rappahannock River. Non-potable plant reuse water is drawn after UV-disinfection.

The plant produces primary sludge, secondary sludge from the MBBR process and tertiary sludge from the DN filters. Sludge is also received from the Town’s water treatment plant as it is discharged through the sanitary sewer system. Settled primary and secondary sludges are withdrawn intermittently from the clarifiers and pumped to the gravity sludge thickener (GST). Underflow from the GST is pumped to a mesophilic anaerobic digester with a floating cover and gas

mixing integral with the cover (Pearth™). The digester temperature is maintained by sludge recirculation through a “tube-in-a-tube” heat exchanger. Digested sludge is pumped to a sludge holding tank with a flexible membrane cover for gas storage. Sludge is pumped from the sludge holding tank to a belt filter press for dewatering. Dewatered cake is stored on site in covered sludge storage bays and periodically hauled and disposed off-site through contract operations. Filtrate, which is high in ammonia, is retained in an adjacent holding tank and returned (equalized) at a low constant rate to the primary influent.

The following **Table 2.1** provides a summary of the plant’s existing unit processes. The existing site facilities are shown on the aerial and topo views in **Appendix B**.

Table 2.1: Summary of Existing Unit Processes

Process Unit	Qty.	Unit Sizing
LIQUID TREATMENT:		
Mechanically Cleaned Influent Screen	1	¼-inch screen; rated for 5.0 MGD peak flow By-pass channel w/ manual bar rack
Grit Removal	2	Aerated Grit Chambers, each 3.5' W x 25' L x 5.5' D (480 ft³)
Influent Flow Meter	1	12-inch Parshall Flume; flow measuring capacity: 3' D (14 MGD)
Primary Clarifiers	2 2	No. 1 and 2: 26' diameter x 10.5 SWD (530 ft² each) No. 3 and 4: 34' diameter x 10.5 SWD (900 ft² each) Total surface area: 2,860 ft²; Total volume: 210,000 ft³
<i>Former Trickling Filter</i>	1	125' diameter x 5' media depth. Tank depth 10'. Estimated useable storage volume: 900,000 gallons.
Intermediate Plant Pumps	4	Each 1,800 gpm @ 55' TDH; 40 HP w/VFD
<i>Former Rotating Biological Contactors (RBC)</i>	21	3 trains, 7 RBC units each. 26'W x 115'L x 5'D reactor Estimated usable storage volume: 300,000 gallons (RBCs removed)
MBBR Process	2	2 trains, each train w/three (3) zones (BOD/Nitrification (2 zones)) Volume: 400,000 ft³ per train; 800,000 ft³ total (2 x 90'Lx40'Wx15' SWD) Media: 800 m²/m³ (50% media fill ratio) Aeration Blowers: 3 units, each 2,200 scfm, 125 HP
Flash Mixing	1	7.5 HP Mixer w/VFD Flash Mixing Tank Volume: 1,500 gallons
Flocculation Tanks	2	0.5 HP Flocculators w/VFD Flocculation Tank Volume: 17,900 gallons, each
Chemical Storage and Feed	2 2 1 2 1 2	Poly-aluminum Chloride Storage Tanks: 6,000 gallons each Poly-aluminum Chloride Feed Pumps: 25 gal/hr each Polymer Storage Tank: 900 gallons Polymer Feed Pumps: 20 gal/hr each Methanol Storage Tank: 11,800 gallons Methanol Feed Pumps: 25 gal/hr each
Secondary Clarifiers	1 1	No. 1: 64' diameter x 12' SWD (3,215 ft²) No. 2: 50' diameter x 12' SWD (1,960 ft²) Total surface area: 5,175 ft²; Total volume: 440,000 ft³
Denitrification Filter Pumps	4	2,200 gpm @ 29' TDH; 30 HP w/VFD
Denitrification Filters	4	Filter cells: 11.33' W x 26.83' L x 6' media depth; filter area each 304 ft² (2) Backwash submersible pumps; 1,824 gpm @ 27' TDH; 25 HP each (2) Low pressure air scour blowers; 1,520 scfm @ 11 psig; 125 HP each
UV Disinfection	2	14" in-line UV reactors; medium pressure/high intensity; 5 MGD each
Plant Reuse Water Pumps	2	370 gpm @160' TDH; 20 HP (submersible)
Post Aeration Tanks	2	Each Tank: 15' L x 15' W x 11' D (total volume 37,000 gallons)
Effluent Flow Metering	1	12-inch Parshall Flume; flow measuring capacity: 3' D (14 MGD)
SOLIDS HANDLING:		
Primary Sludge Pumps	2	50 gpm; 3 HP each
Secondary Sludge Pumps	2	240 gpm; 7.5 HP each
Gravity Thickener	1	28' diameter x 12' SWD (52,000 gallons); (615 ft² surface area)
Anaerobic Digester	1	Digester No. 1: 50' dia.; 20' SWD; 290,000 gallons (digestion)
Digested Sludge Storage	1	Digester No. 2: 40' dia., 20' SWD; 185,000 gallons (sludge holding)
Belt Filter Press	1	1-meter press
Filtrate Buffer Tank	1	30,000 gallons filtrate holding/equalization tank
Dewatered Sludge Storage	1	165'Lx55'W; 9,000 ft² total area (covered); 8 bays (20' wide)

2.2 Plant Influent Wastewater Loads

The plant does not routinely sample and analyze influent wastewater. However, prior to preparing the July 2016 Preliminary Engineering Report for the MBBR Installation a two-week sampling program was conducted in March 2016 to characterize the influent and establish wastewater loads for preliminary design. Grab samples were collected just upstream of the influent flow meter (after screening and grit removal) three times a day, at the beginning of each shift, and then composited. The composite samples were analyzed for five-day biochemical oxygen demand (BOD₅), total suspended solids (TSS), total Kjeldahl nitrogen (TKN), ammonia and total phosphorus (TP). Influent alkalinity (CaCO₃) was also measured. In addition, side stream ammonia and TKN were measured from the belt filter press filtrate holding tank as the dewatering filtrate from anaerobically digested sludge typically has high ammonia concentration.

The sampling was targeted during a period with minimum precipitation to obtain dry weather baseline wastewater characteristics. Concentrations for BOD₅ ranged from 123 to 295 mg/L; TSS from 61 to 144 mg/L; TKN from 24 to 34 mg/L; and the average alkalinity was 145 mg/L (CaCO₃). These are all within the range of typical domestic wastewater. The average daily wastewater flows for the sampling period varied from 1.76 to 2.36 MGD. **Table 2.2** shows the representative primary influent wastewater concentrations based on the sampling data for plant influent and side stream flow from the filtrate holding tank. The TKN and ammonia recycle loads from the dewatering process account for about 15% and 25%, respectively, of the plant influent. The sampling results are included in **Appendix C**.

Table 2.2: Influent Wastewater Concentrations (mg/L)

	BOD ₅	TSS	TKN	NH ₃ -N	TP	Alkalinity
Plant Influent	200	100	30	20	4.0	145
BFP Filtrate*			333	294		
Primary Influent	200	100	35	25	5.0	145

*Average side stream flow at 20 gallons per minute (gpm).

Supplemental wastewater sampling was also conducted back in 2006 (during March) prior to the nutrient removal upgrade design. The recent 2016 sample data are similar to the wastewater characteristics obtained at that time. The 2006 data is also included in **Appendix C** for reference.

2.3 Plant Flows

Plant flows are recorded via the influent flow meter. **Figure 1** shows the historical daily average flows for 2013 - 2021, and the 30-day moving average flow. **Figure 2** shows the recorded maximum (peak hour) flow for the same period. For wastewater loads and treatment capacity evaluations the maximum month flow factor is used, while the peak (hour) flow factor is used for review of plant hydraulics. **Table 2.3** shows the annual average flow for the period, the corresponding maximum month (30-day) flow, maximum/average month factor, maximum total daily flow and factor. The total annual rainfall (inches) is also listed, showing higher annual plant flows during relatively wet years.

The plant annual average flow for the period 2013-2021 was about 1.9 MGD. The maximum month peak factor to be used in the evaluations is 1.3 (30% above annual average flow) and the maximum daily flow factor is 2.2. The maximum (peak hour) flows recorded for the period is about 6 MGD corresponding to a peak flow factor of 3.0. These flow factors are representative of this size facility, system age and service area.

Regarding the peak hour flows it is noted that the influent flow chart maxes out at 6 MGD and flows above this rate are not quantified on the charts. Peak flows capped at 6 MGD occur on average 3-5 times per year, typically associated with high rainfall intensity events. The plant has handled these peak flows without overflow incidents. It is suspected

that some flow attenuation/temporary backup may occur in the trickling filter (TF) as it is connected to the plant intermediate pumping station wet well, but due to the TF being covered this is difficult to verify.

Table 2.3: Historical Plant Flows (MGD) and Rainfall

	Annual Average Flow	Maximum Month Flow	MM/AA Factor	Maximum Daily Flow	MD/AA Factor	Annual Total Rainfall
2013	2.0	2.42	1.18	4.7	2.35	52"
2014	2.0	2.60	1.30	5.9	2.95	48"
2015	1.9	2.20	1.18	3.4	1.79	42"
2016	1.7	2.65	1.26	3.8	2.24	37"
2017	1.7	2.26	1.33	3.3	1.94	43"
2018	2.2	2.77	1.26	4.7	2.14	70"
2019	2.0	2.80	1.40	4.9	2.45	43"
2020	1.9	2.53	1.33	4.1	2.16	51"
2021*	1.8	2.33	1.29	3.7	2.06	-
Average	1.9		1.28		2.23	48"

*) Data through September

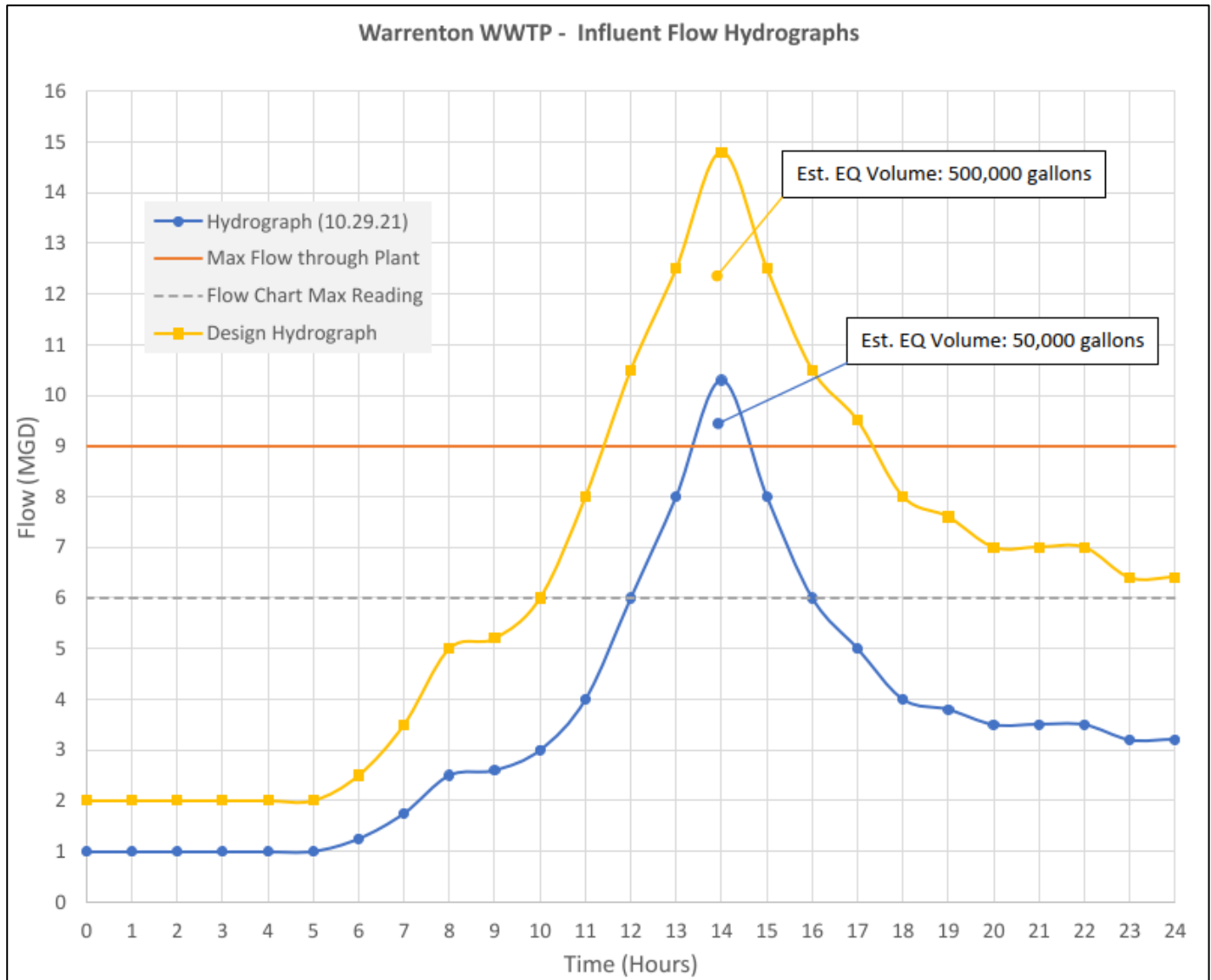
It is also noted during extreme wet weather events the upstream collection system Cedar Run Pump Station surcharges into the adjacent holding lagoon for temporary storage. The lagoon is drained back to the pump station and pumped to the WWTP during lower flows. However, the Cedar Run pumping capacity is reportedly limited to about 1.5 MGD so its flow contribution during wet weather events is relatively low compared to the total peak flows to the plant.

During high flow events when the flows are expected to exceed 6 MGD, plant operations staff occasionally records the maximum flow rate by measuring the depth of flow in the influent parshall flume and the tabulated flow rate corresponding to a 12-inch flume throat. To estimate the plant's historical peak hour flows (beyond 6 MGD), the day-time rain event on October 29, 2021, was evaluated in more detail. The flow chart is included in **Appendix D**. The chart shows between noon and 4 PM the influent flow exceeded 6 MGD. Based on parshall flume depth measurement around 2 PM, the flow peaked at about 10.3 MGD which corresponds to a peak flow factor of 5.7 (derived as 10.3 MGD divided by the annual average flow for 2021 at 1.8 MGD). The Cedar Run pump station daily records for October 2021 are also included in the appendix and show a pumped flows rate of about 1.3 MGD for this event (10.29.21). It is also noted that the Cedar Run storage pond depth was about 2 feet, but otherwise empty during the month.

Based on the flow chart information and the peak flow observed an influent flow hydrograph was approximated for the rain event on October 29, 2021, as shown on the graph below. A 3.0 MGD ADF "design hydrograph" was also simulated, based on the plant capacity expansion from 2.5 MGD to 3.0 MGD, by scaling up the 10.29.21 hydrograph with the following assumptions: The dry weather flow for the month of October 2021 was about 1.6 MGD with no significant daily precipitation except for a few days at the end of the month. The wet-to-dry weather peak flow factor associated with the additional future dry weather flow of 1.4 MGD, that would make up the 3.0 MGD ADF (1.6 MGD + 1.4 MGD), is assumed to be capped at 3.0. As the Town is evaluating extending its sewer boundaries via pipe extensions, these connections, constructed with newer piping standards, should have much less infiltration and inflow (I/I). Also, the Town has made continuous efforts with I/I studies and evaluations on its collection system to identify deficiencies and address sub-areas subject to high inflow. Recent system repairs and improvements have shown a reduction in extraneous flows.

In the 2009 Nutrient Reduction design, and for the recent MBBR design, the hydraulic design peak flow was selected at 9 MGD which corresponds to a peaking factor of 3.6 for the current permitted ADF capacity of 2.5 MGD, and a peaking factor of 3.0 for the expansion to 3.0 MGD ADF. Thus, up to 9 MGD flow will be processed through the plant

processes while flows above 9 MGD will need to be managed through wet weather flow equalization. As shown on the projected “design hydrograph” a peak-hour flow rate could reach 15 MGD and an estimated flow equalization volume of 500,000 gallons would be needed to capture and store flows that exceed 9 MGD, and for a much longer duration than for the current peak flow conditions. The former trickling filter (TF) has a useable volume of 900,000 gallons (with the media removed) and would be suitable as an equalization tank. Excess peak flows would be diverted to the TF and stored before draining to the plant intermediate pumping station when the peak influent flows have subsided. Currently, all flows enter the existing primary clarifiers and then through the dosing tank for the former trickling filter to the intermediate plant pumping station wet well. If the pumps cannot keep up with the incoming flow the wet well backs up into the trickling filter tank.



Influent Flow Hydrographs and Estimated Equalization Storage Volume

2.4 Plant Effluent Performance

Under the current effluent discharge permit (**Appendix A**) the plant is required to comply with monthly and weekly limits for concentration and wastewater loads for BOD₅ and TSS, and with monthly and weekly concentration limits for ammonia-nitrogen. For nutrients, the permit requires a calendar year average effluent concentration of 4.0 mg/L, or less for total nitrogen (TN) and 0.3 mg/L or less for total phosphorus. There is a corresponding annual load allocation for TN (30,456 lbs) and TP (2,284 lbs) based on the permitted average daily flow of 2.5 MGD. **Table 2.4** shows the discharge permit limits.

Table 2.4: Current Plant Discharge Permit Limits (at 2.5 MGD ADF)

Parameter	Monthly Average	Weekly Average
Flow = 2.5 MGD		
BOD ₅	10 mg/L (95 kg/d)	15 mg/L (140 kg/d)
TSS	10 mg/L (95 kg/d)	15 mg/L (140 kg/d)
Ammonia-N	1.4 mg/L	1.7 mg/L
E.coli	126 MPN/100mL	n/a
	Calendar Year Average	Annual Load Allocation
Total Nitrogen	4.0 mg/L	30,456 lbs
Total Phosphorus	0.3 mg/L	2,284 lbs

The graphs on **Figures 3A, 3B, 4A and 4B** show the historical monthly and weekly effluent concentrations for BOD₅ and TSS for 2013-2021 which are well below the permit limits. For ammonia-nitrogen (**Figures 5A and 5B**), the monthly and weekly effluent concentrations are averaging less than 0.5 mg/L, with the exception of a period between October 2013 and March 2014 during which the (former) trickling filter was offline for repairs for an extended time. During this time full BOD₅ removal was shifted to the (former) RBC process resulting in reduced nitrification capacity and higher effluent ammonia levels. This resulted in effluent ammonia concentrations for November 2013 and January 2014 that exceeded the monthly and weekly limits. Once the trickling filter was brought online, the nitrification capacity was restored, and effluent ammonia concentrations improved. In late 2020 and early 2021, biological treatment was transitioned from the trickling filter/RBC process to the new MBBR process, and the trickling filter and RBCs were taken offline. The MBBR process has since provided for combined BOD removal and complete nitrification (ammonia removal).

The plant provides bacterial inactivation through ultra-violet (UV) disinfection and is consistently well below the E.coli limits of 126 MPN/100 mL.

Table 2.5 shows the calendar year average effluent concentrations for total nitrogen and total phosphorus for 2013-2021, well below the permit requirements for nutrient discharge. **Figures 6 and 7** shows the monthly concentrations. **Table 2.5** also shows the nitrogen fractions (ammonia, nitrate and organic-N).

In summary, the plant has consistently performed well and complied with the effluent permit limits for all parameters.

Table 2.5: Annual Average Plant Effluent for Nitrogen and Total Phosphorus (mg/L)

	Annual Average Flow	Total Nitrogen (TN)	Total Kjeldahl Nitrogen (TKN)	Nitrate Nitrogen (NO ₃)	Ammonia Nitrogen (NH ₃)	Organic Nitrogen (Org-N)	Total Phosphorus (TP)
2013	2.0 MGD	3.5	1.4	2.1	0.47	0.93	0.15
2014	2.0 MGD	3.4	1.3	2.1	0.49	0.81	0.21
2015	1.9 MGD	3.3	1.5	1.8	0.22	1.28	0.20
2016	1.7 MGD	3.1	1.3	1.8	0.16	1.14	0.26
2017	1.7 MGD	2.8	1.3	1.5	0.10	1.2	0.15
2018	2.2 MGD	3.5	1.2	2.3	0.10	1.1	0.14
2019	2.0 MGD	2.4	0.9	1.5	0.10	0.8	0.21
2020	1.9 MGD	2.3	1.0	1.3	0.11	0.9	0.17
2021	1.8 MGD	3.9	1.4	2.5	0.22	1.2	0.17

3 PLANT EXPANSION

3.1 Flows and Wastewater Loads

This section discusses the plant capacity expansion to an average design flow of 3.0 MGD and considers the average day, maximum month, and peak flow and wastewater loadings for the liquid treatment and solids handling process, where applicable. As previously discussed, the design maximum month (MM) flow is assumed 30% higher than the average month. The design peak (hour) hydraulic flow is selected as peak-to-average ratio of 3.0 based on the evaluation in Section 2.3. **Table 3.1** shows the design flows and wastewater characteristics used for the plant expansion evaluation. The wastewater concentrations are based on the previously analyzed influent sampling data and are assumed to be the same for all flows.

Table 3.1: Flows and Influent Wastewater Concentrations for Plant Capacity Expansion.

ADF (MGD)	MM (MGD)	Peak (MGD)	Primary Influent (mg/L)					
			BOD ₅	TSS	TKN	NH ₃ -N	TP	Alkalinity
3.0	3.9 (1.3)	9.0 (3.0)	200	100	35	25	5.0	145

As discussed in Section 2.3 wet weather peak flow rates exceeding 9.0 MGD will need to be diverted to flow equalization tankage.

3.2 Effluent Requirements for Plant Expansion

The capacity expansion review considers the effluent limits in the plant’s current discharge permit and anticipated modifications in the permit requirements associated with an expansion. In discussions with VADEQ concentration limits for BOD₅ and TSS will remain, and the current waste load allocations would increase correspondingly. For ammonia concentrations are expected to remain, however, as part of the next permit cycle the Freshwater Ammonia Criteria could require slightly more stringent concentration limits. For nutrients (nitrogen and phosphorus) the annual waste load allocation would remain, and the corresponding average concentrations would be lowered.

Table 3.2 shows the anticipated effluent concentrations for BOD₅, TSS, ammonia, total nitrogen and total phosphorus at the existing permitted capacity (2.5 MGD) and proposed expansion (3.0 MGD).

Table 3.2: Effluent Limits at Current Capacity, and Requirements at 3.0 MGD ADF

Parameter	Monthly Average		Weekly Average	
	2.5 MGD	3.0 MGD	2.5 MGD	3.0 MGD
Average Design Flow	2.5 MGD	3.0 MGD	2.5 MGD	3.0 MGD
BOD ₅	10 mg/L	10 mg/L	15 mg/L	15 mg/L
TSS	10 mg/L	10 mg/L	15 mg/L	15 mg/L
Ammonia-N	1.4 mg/L*		1.7 mg/L*	
E.coli	126 MPN/100 mL		n/a	
	Calendar Year Average		Annual Load Allocation	
Average Design Flow	2.5 MGD	3.0 MGD		
Total Nitrogen	4.0 mg/L	3.33 mg/L	30,456 lbs	
Total Phosphorus	0.3 mg/L	0.25 mg/L	2,284 lbs	

* Values may be subject to future Freshwater Ammonia Criteria

There would be no change in the effluent requirements for BOD₅ and TSS. Although slightly more stringent ammonia limits could be imposed due to the Freshwater Ammonia Criteria, they are still expected to be met with the recently installed MBBR process, which has demonstrated excellent ammonia removal performance since startup.

Table 3.2 shows that the annual TN concentration equivalent would be 3.33 mg/L at 3.0 MGD ADF. Total nitrogen is the sum of TKN (ammonia + organic nitrogen) and nitrate/nitrite. To meet the effluent TN requirement, each of these parameters (ammonia, organic-N and nitrate) need to be targeted at 1 mg/L or less based. As noted previously, ammonia in the plants effluent has consistently been at levels of 0.2 mg/L or less, and the organic nitrogen about 1.0 mg/L, which is considered mostly non-biodegradable (refractory). The effluent nitrate has been about 2 mg/L. For compliance at 3 MGD, the effluent nitrate concentration will need to be trimmed. Per discussions with plant operations, the nitrate levels are controlled based on economical methanol dosing while still targeting an overall effluent TN level below 4 mg/L. Based on the plant's experience nitrate can be further reduced through a slight increase in methanol dose (without impacting effluent BOD).

Total phosphorus is removed primarily through chemical addition and precipitation in the secondary clarifiers. Additional polishing occurs in the denitrification filters. With continued chemical addition, denitrification/filtration and low effluent suspended solids the plant should be able to meet the annual average TP limits (Table 3.2) for the plant expansion.

The following Sections 4 and 5 evaluate the liquid and solids treatment units and the anticipated upgrades required for the plant expansion to 3.0 MGD ADF. While the plant expansion planning horizon is longer term, 5-10 years out, the Sections also discuss needed near-term improvements to replace or upgrade aging equipment and extend the service life and treatment reliability of the existing facilities. From a planning level aspect, the "near-term" improvements include items that are short term, 0-2 years, and items that are intermediate term, 2-5 years. The time schedule covers the initial planning, design and construction award phases, but not the actual construction completion time. A summary table is presented in Section 7 showing anticipated upgrades and expansion phasing for various process unit, as well as fiscal planning level budgets.

4 LIQUID TREATMENT FACILITIES

4.1 Preliminary Treatment (Headworks)

Influent wastewater to the facility flows through a mechanically cleaned bar screen (1/4" bar spacings) that is rated for a peak flow of 5 MGD. Flows above the 5 MGD rating is directed through a parallel channel with a manually cleaned bar rack. Both the mechanical screen and manual bar rack are located outdoors.

While the existing facilities could handle the overall estimated re-rated peak flow (9.0 MGD), during high flow events nearly half of the peak flow event (4 MGD) would have to bypass the 5 MGD rated screen and instead flow through the manually cleaned bar rack. This could be a maintenance problem for the MBBR process as rags and floatable material may build up and clog the MBBR screens.

Grit is settled in two parallel aerated grit channels. Grit is removed with chain and buckets and conveyed to outdoor grit bins.



Influent Screen (foreground) and Grit Collectors (background)



Grit Channel with Chain and Bucket

Given the aging equipment, and winter-time freezing issues and odor concerns with an outdoor installation, the Town is considering a new headworks building and new screen and grit removal facility. The new facility would be designed for an expanded 3.0 MGD ADF headworks, or with provisions to expand at a later time. The screening and grit removal processes would be sized to handle the future peak-hour flow of 15 MGD (based on the previous "design hydrograph"). The new headworks would be constructed adjacent to the existing facility. A conceptual layout is shown in **Appendix E**, consisting of two screen channels with mechanically cleaned bar screens (1.4-inch spacings) and overflow/bypass channel, and downstream vortex type grit removal with a grit classifier and dewatering unit. Equipment would be housed in a new building (the grit tank itself would be outdoors). The new facility will meet the SCAT regulations for treatment redundancy.

The existing 12-inch Parshall flume has adequate flow measuring capacity for average and peak flows up to 14 MGD. No modifications or replacement of the Parshall Flume are anticipated; however, influent flow metering may be re-configured when a new headworks facility is designed. While the Parshall Flume can measure the required peak flows, the existing flow chart is only capable of measuring and recording flows up to 6 MGD. The Town may consider upgrading or replacing the chart recorder at some point before the plant expansion.

4.2 Primary Clarifiers

Existing primary clarification includes two (2) 26-ft diameter units and two (2) 34-diameter units. Primary No. 4 was added in the 1990 plant upgrade. Tankage and piping are from the original construction, but the clarifier mechanisms have been replaced over the years, most recently for PC No. 2 (26-ft diameter).



Primary Clarifiers (with sludge pumping station) and former Trickling Filter (covered)

A key design criterion for primary clarifier sizing is the hydraulic surface overflow rate (SOR). Conventional design guidelines (Manual of Practice No. 8) and SCAT regulations recommend the SOR not exceeding 1,000 gpd/ft² at average design flow and 2,500 gpd/ft² for peak flow, and the hydraulic retention time (HRT) should be minimum 2 hours at average design flow. **Table 4.1** summarizes the SOR for the existing units at the current flows, at the plant permitted capacity (2.5 MGD) and at the plant expansion (3.0 MGD). While the SOR values for the existing units are within the design range up to the permitted capacity, the design values are exceeded for the plant expansion flows. For the future plant expansion, it is recommended that the existing units be replaced with two (2) new 60-ft diameter units to provide adequate capacity.

Flow distribution and a new primary sludge pumping station would also be constructed with the new clarifiers. Siting of these facilities would be in the open area adjacent to the former trickling filter, near the plant entrance. At that time the existing primary clarifiers could be re-purposed as sludge blending/ holding tanks. Primary clarifier No. 4 may need to be demolished to accommodate the new clarifiers. Typical clarifier information sheets are included in **Appendix F**.

Wet weather flows in excess of 9 MGD would be diverted before the new primary clarifiers to the former trickling filter, stored and drained back to the intermediate pumping station during low flows. It is noted that the excess flow stored in the trickling filter that did not receive primary treatment would be pumped directly to the MBBR process. Preferably, all flows should receive primary treatment upstream of the MBBR process; however, a partial flow bypass around the primary clarifiers should be acceptable as long as a new Headworks facility is constructed and provided with mechanically cleaned bar screens (with no greater than ¼-inch bar spacings) that are sized for screenings removal at the maximum flows to the plant, including the grit removal unit, to protect the downstream MBBR process.

Table 4.1: Primary Clarifier Design Criteria, Current Permit (2.5 MGD) and Plant Expansion (3.0 MGD)

	Annual Average Flow	Maximum Month Flow	Peak Flow	Average Flow w/One Unit out of Service
Surface Overflow Rate (SOR) Design Criteria:				
Design Range (gpd/ft ²)	800 – 1000	800 – 1000	2,000 – 3,000	800 – 1,000
SCAT Regulations (gpd/ft ²)	< 1,000		< 2,500	< 1,000
Existing PCs at current Plant Flows	1.9 MGD	2.5 MGD	11.5 MGD¹	1.9 MGD
No of Ex. Units in Service	4	4	4	3
Total clarifier surface area (ft ²)	2,860	2,860	2,860	1,960
Surface Overflow Rate (SOR) (gpd/ft ²)	664	874	4,021	969
Existing PCs at Permitted Flow (2.5 MGD)	2.5 MGD	3.25 MGD	9.0 MGD²	2.5 MGD
No of Ex. Units in Service	4	4	4	3
Total clarifier surface area (ft ²)	2,860	2,860	2,860	1,960
Surface Overflow Rate (SOR) (gpd/ft ²)	874	1,136	3,147	1,276
Existing PCs at Plant Expansion (3.0 MGD)	3.0 MGD	3.9 MGD	9.0 MGD²	3.0 MGD
No of Ex. Units in Service	4	4	4	3
Total clarifier surface area (ft ²)	2,860	2,860	2,860	1,960
Surface Overflow Rate (SOR) (gpd/ft ²)	1,049	1,364	3,147	1,531
New PCs at Plant Expansion (3.0 MGD)	3.0 MGD	3.9 MGD	9.0 MGD²	3.0 MGD
No of new Units in Service	2	2	2	1
Clarifier Diameter (ft)	60	60	60	60
Total clarifier surface area (ft ²)	5,652	5,652	5,652	2,826
Surface Overflow Rate (SOR) (gpd/ft ²)	531	690	1,592	1,062
Existing SCs at Plant Expansion (3.0 MGD)³	3.0 MGD	3.9 MGD	9.0 MGD²	3.0 MGD
No of Ex. Units in Service	2	2	2	1
Ex. Clarifier Diameters (ft)	50' & 64'	50' & 64'	50' & 64'	50'
Total clarifier surface area (ft ²)	5,175	5,175	5,175	1,960
Surface Overflow Rate (SOR) (gpd/ft ²)	580	754	1,739	1,531
¹ Actual observed peak-hour flows to the plant				
² Flows in excess of 9 MGD would be diverted to the wet weather equalization tank (former TF)				
³ Alternatively converting the existing secondary clarifiers to primary clarifiers for the plant expansion				

Section 4.6 discusses the need for new secondary clarifiers at the plant expansion to 3.0 MGD, to be installed in the area of the former RBCs. As such, an alternative to providing new primary clarifiers would be to convert the two existing secondary clarifiers, a 50 ft diameter unit and a 64 ft diameter unit. The bottom entry in **Table 4.1** shows that the existing secondary units have nearly the same total surface area as two new 60 ft diameter units and that the SOR values are within the acceptable design range. Assuming that the new secondary clarifiers are constructed first, subsequently converting the existing secondary clarifiers would save construction costs compared to new primary clarifier construction and would also preserve open areas within the plant. The existing secondary sludge pumping

station would be renovated and if feasible the underflow sludge piping could be connected directly to the pumps, eliminating the telescoping valves and sight wells.

4.3 (Former) Trickling Filter

After the new MBBR process was placed in service in early 2021, the trickling filter and RBCs were taken offline. Occasionally, during high flow events the intermediate pumping station wet well backs up the primary effluent into the trickling filter which serves as flow attenuation and excess flow storage. The former trickling filter concrete tank has a useable storage volume of about 900,000 gallons that can be used for wet weather flows. As indicated in Section 2.3, the projected peak influent flow hydrograph at the expanded plant capacity would require 500,000 gallons storage to hold and equalize influent flows in excess of 9 MGD. In the near-term it is recommended that the existing plastic media be removed and continue to use the tank for high flow management. The trickling filter cover should remain in-place.

4.4 Intermediate Plant Pumping Station

The intermediate pumping station pumps primary clarifier effluent to the MBBR process via a new 20-inch force main extension from the existing RBCs. The four (4) submersible pumps were recently upgraded to larger units (1,800 gpm or 2.5 MGD each). With the new MBBR process, the peak pumping capacity is estimated at about 8 MGD with three of the four pumps operating, and about 10 MGD with all units in service.

SCAT regulations require that pumping stations with three or more pumping units shall be designed to meet the maximum sewage flow, or 2.5 times the average flow, whichever is greater, with one unit out of service. Since the design peak flow of 9.0 MGD (at 3.0 MGD ADF) is greater than the capacity with any one unit out of service, SCAT requirements dictate that an additional pumping unit may be required. However, there is limited room to install an additional pump and plant operations suspect a reduced pumping capacity in part due to the short section of a small diameter (12") force main leaving the station. The line transitions to 16-inch diameter outside the station and runs up to the RBCs and ties to a new 20-inch extension to the MBBR process. In the near-term, a sizing upgrade to the discharge force main is recommended to improve the pumping capacity. Given the age of this facility, a complete station renovation or replacement is recommended for a plant expansion. The existing submersible pumps may also be replaced with vertical solids handling (VSH) pumps. See VSH pump information in **Appendix G**.

4.5 Moving Bed Bio-Reactor (MBBR) Process

The MBBR process was recently installed and replaced the trickling filter and RBCs. The MBBR process receives primary effluent and provides for BOD removal and ammonia removal (nitrification). It consists of two (2) parallel reactor trains each with three (3) zones separated by partition walls with media retaining screens. The first zone is aerated for BOD removal; the second and third zones are also aerated and provide full nitrification. Aeration is supplied by two (2) variable speed-controlled blowers located in the adjacent Blower and Control Building. A third blower is provided as standby. Process air supply and air valve position for each zone is controlled through dissolved oxygen (DO) setpoint. In-situ ammonia analyzers are installed in the third zone also provide the option for ammonia-based aeration. Fully nitrified effluent from MBBR process is conveyed to the secondary clarifiers for solids removal and subsequently to the tertiary denitrification filters for nitrogen removal. The third zone is equipped with a top-mounted mixer and the air flow can be turned off to allow for de-oxygenation while keeping the media in suspension with the mixer, or to provide anoxic conditions for partial (post)-denitrification. Currently, the third zone does not have provisions for external carbon addition.

**MBBR Process - Reactor Trains 1 and 2****MBBR Aeration Blowers**

The MBBR system was placed in service in early 2021 with average plant flows at about 2.0 MGD or 80% of the current permitted design flow and the system has performed very well since startup. The influent ammonia concentrations have been consistent with the MBBR design criteria, and effluent ammonia levels after the second zone (first stage nitrification zone) average below 0.5 mg/l. This would suggest a robust nitrification reserve capacity in the last zone for additional flow and loadings. The MBBR tank volume was designed for a media fill ratio of 50% based on media with a specific surface area of nominally 800 m²/m³. For the plant expansion to 3.0 MGD it was envisioned that additional media would be added, up to 60% fill ratio (20% media increase), if needed, to accommodate future flow and wastewater loading without the need to build more tankage. The aeration blowers were also sized for an expanded capacity; therefore, no other improvements are needed for the MBBR process for expansion 3.0 MGD. As flows and loads increase in the future the need for adding more media can be evaluated based on treatment performance.

4.6 Secondary Clarifiers

MBBR effluent is conveyed to the flash mixing/flocculation tanks where metal salt (poly-aluminum chloride, "PACI") is added for chemical phosphorus removal in the secondary clarifiers. The existing chemical storage tank volume (6,000 gallons) is sufficient for the plant expansion to 3.0 MGD but the tank is old and needs secondary containment. A new tank with containment area is recommended as a near-term improvement.

The two existing secondary clarifiers include one 64 feet diameter unit and one 50 feet diameter unit, each with 12-ft sidewater depth, and with a total surface area of 5,175 ft². The clarifier depth is within the recommended range. The SCAT regulations indicate that the surface overflow rate (SOR) should not exceed 500 gpd/ft² and 1,200 gpd/ft² at average and peak flows, respectively, for clarifiers following an attached growth biological process. Also, the SCAT regulations indicate that for conventional clarifiers used with chemical clarification, the design SOR shall not exceed 600 gpd/ft². The estimated solids loading rates (SLR) based on typical MBBR effluent (100-150 mg/l TSS) are well below the SCAT criteria for attached growth processes (SCAT criteria: 0.6-1.0 lbs/ft²/hr at average design; 1.6 lbs/ft²/hr at peak loading). **Table 4.2** summarizes the SOR for the existing units at the current flows, at the plant permitted capacity (2.5 MGD) and at the plant expansion (3.0 MGD). While the SOR values for the existing units are within the design range up to the permitted capacity, the design values are exceeded for the plant expansion flows. For the future

plant expansion, it is recommended that the existing units be replaced with two (2) new 75 ft diameter units to provide adequate capacity.



Secondary Clarifier

Table 4.2: Secondary Clarifier Design Criteria, Current Permit (2.5 MGD) and Plant Expansion (3.0 MGD)

	Annual Average Flow	Maximum Month Flow	Peak Flow ¹	Average Flow w/One Unit out of Service
Surface Overflow Rate (SOR) Design Criteria:				
Design Range (gpd/ft ²)	400 – 600	< 600	1,000 – 1,200	400 – 600
SCAT Regulations (gpd/ft ²)	< 500		< 1,200	< 500
Existing SCs at current Plant Flows	1.9 MGD	2.5 MGD	9.0 MGD	1.9 MGD
No of Ex. Units in Service	2	2	2	1
Total clarifier surface area (ft ²)	5,175	5,175	5,175	1,960
Surface Overflow Rate (SOR) (gpd/ft ²)	367	483	1,739	969
Existing SCs at Permitted Flow (2.5 MGD)	2.5 MGD	3.25 MGD	9.0 MGD	2.5 MGD
No of Ex. Units in Service	2	2	2	1
Total clarifier surface area (ft ²)	5,175	5,175	5,175	1,960
Surface Overflow Rate (SOR) (gpd/ft ²)	483	628	1,739	1,276
Existing SCs at Plant Expansion (3.0 MGD)	3.0 MGD	3.9 MGD	9.0 MGD	3.0 MGD
No of Ex. Units in Service	2	2	2	1
Total clarifier surface area (ft ²)	5,175	5,175	5,175	1,960
Surface Overflow Rate (SOR) (gpd/ft ²)	580	754	1,739	1,531
New SCs at Plant Expansion (3.0 MGD)	3.0 MGD	3.9 MGD	9.0 MGD	3.0 MGD
No of new Units in Service	2	2	2	1
Clarifier Diameter (ft)	75	75	75	75
Total clarifier surface area (ft ²)	8,831	8,831	8,831	4,416
Surface Overflow Rate (SOR) (gpd/ft ²)	340	442	1,019	679

¹Flows in excess of 9 MGD would be diverted to the equalization tank (former TF)

Flow distribution with mixing/flocculation and a new secondary sludge pumping station would also be constructed with the new clarifiers. Siting of these facilities would be in the area of the former RBCs, adjacent to the MBBR tanks. Rather than circular clarifiers, rectangular units with chain and scrapers would offer a better fit within the footprint of the former RBCs. They would each be about 110 ft long by 40 ft wide with similar surface area to the 75 ft diameter units. The existing clarifiers may be converted to flow equalization before the DN filters or removed to make room for a new headworks facility, or if the DN filter facility was to be expanded in the future. Rectangular clarifier information sheets are included **Appendix H**.

4.7 Denitrification Filter (DNF) Pumping Station

The DNF pumping station was constructed as part of the 2009 Nutrient Removal Upgrade. It pumps secondary nitrified effluent to the tertiary denitrification filters. The pumping station is designed for a peak flow of 9.6 MGD (with three pumps online and one pump standby). The station also has (emergency) overflow provision to allow flows to by-pass the DNF facility and be conveyed via gravity to UV-disinfection. At the expansion to 3.0 MGD ADF, the design peak flow (9.0 MGD) is within the station safe pumping capacity and no upgrades to the pumping station are anticipated.

4.8 Tertiary Denitrification Filters

Nitrates in the secondary clarifier effluent (from the MBBR process) are denitrified in the tertiary denitrification filters, installed in the 2009 Nutrient Removal Upgrade, to provide total nitrogen removal and effluent phosphorus polishing. External carbon (methanol) is added to the process. The facility includes four deep-bed (4) filters, each 11.5ft W x 26ft L with 6 feet media depth. Each filter area is nominally 300 ft², or 1,200 ft² total with all filters online. A clearwell holding tank provides filtered effluent for filter backwashing. The clearwell houses two (2) submersible backwash pumps. A mudwell tank stores spent backwash water that is drained back to the intermediate plant pumping station. Air scour blowers for filter backwashing and the main filter control panel are housed in the adjacent Blower/Control Building.

The existing DN filters were specified to treat up to 3.0 MGD average flow, a maximum month flow of 3.9 MGD, and a peak hourly flow of 9.0 MGD.



DN Filter Pump Station (left) and DN Filter Facility



DN Filter Cell



Methanol Storage

The average nitrate concentration to the DN filters is about 18 mg/L. At the plant expansion to 3.0 MGD ADF the hydraulic filter loading and volumetric (empty bed) nitrate loading would be about 1.8 gpm/ft² and up to 60 lbs-nitrate/1,000 ft³/day, which are within conventional deep bed DN filter design criteria. During maximum month conditions where the filter loading is higher, the denitrification performance (and TN removal) may be slightly lower. However, there is no monthly permit limit for total nitrogen, and it would not affect the ability to meet the annual nitrogen

mass load limit. The filter peak hydraulic loading (at 9 MGD) would be about 5 gpm/ft² which is also acceptable. Thus, the filter capacity is adequate, and no additional filters or other upgrades are required for expansion to 3.0 MGD ADF.

The methanol facility includes a nominal 12,000-gallon steel storage tank in a covered containment area and redundant methanol feed pumps. No improvements are anticipated.

4.9 Effluent Disinfection

Prior to the 2009 Nutrient Removal Upgrade the gas chlorination/dechlorination facilities were replaced with an ultra-violet (UV) disinfection system. The system includes two parallel 14-inch in-line medium pressure/high intensity UV Reactors located in a below-grade vault. Each reactor is rated for 5 MGD. There is provision to add a future third unit which will require a new below-grade vault and connection to existing piping. Recently, the Town upgraded the UV electrical and control system.

At current conditions, one UV Reactor is operating at average flows and the second reactor is turned on at higher flows. Daily grab samples are analyzed for E.coli and as long as the lamps are kept clean and replaced periodically (typically after 7,000-8,000 hours of operation), the average values are generally less than 10 MPN/100 mL, well below the permit limit of 126 MPN/100 mL (geometric mean). The SCAT regulations require that if no more than two UV banks are provided, each UV bank shall be capable of disinfecting the maximum daily flow (not peak-hour flow). Based on plant records for 2013 - 2021, the average ratio of maximum daily-to-average flow is about 1.6. Thus, at 3.0 MGD ADF, the maximum daily flow is projected at 4.8 MGD, less than 5 MGD. Therefore, unless otherwise required by VADEQ, the need for an additional UV unit is not anticipated for the plant expansion.



UV-disinfection In-line Reactors

The current two-reactor configuration has a hydraulic capacity greater than 10 MGD (with both reactors online). An increase in the hydraulic gradient, due to additional head-loss across the UV reactors at higher flows, will be sufficiently contained within the DN filter effluent clear-well.

4.10 Post Aeration

The existing post aeration tanks are provided with mechanical surface aerators to meet the permit requirements for dissolved oxygen in the final effluent. No improvements are anticipated for the plant expansion to 3.0 MGD, however, given the age of the mechanical mixers, near-term upgrades/motor replacement may be required.



Post Aeration Tank and Surface Aerator

The existing 12-inch effluent Parshall flume, downstream of the post-aeration tank can adequately measure maximum flows up to 14 MGD. Thus, no modifications are required for the expansion to 3.0 MGD.

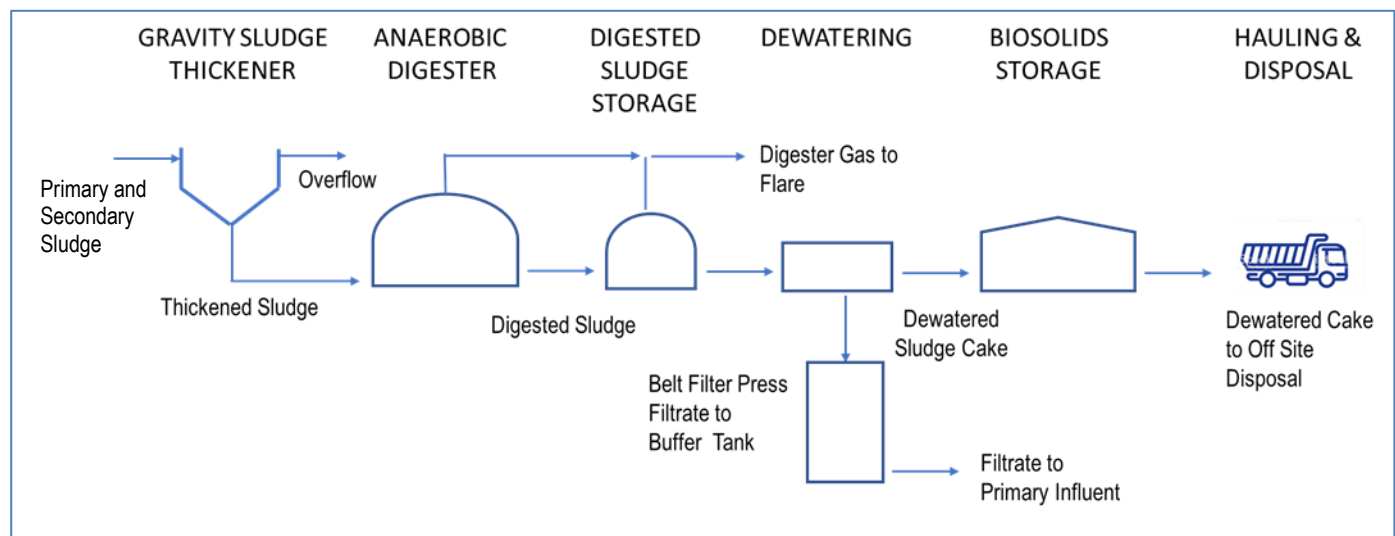
5 SOLIDS HANDLING FACILITIES

A separate solids handling upgrade and expansion evaluation report was completed in February 2020 and included in **Appendix K**. This Section 5 summarizes the solids handling facilities and recommended upgrades, near-term and for the plant expansion to 3.0 MGD, based on the 2020 report and more recent discussions with the Town.

The existing solids handling flow schematic is shown below. The plant produces primary sludge, secondary sludge from the MBBR process and tertiary sludge from the DN filters. Metal salt (poly-aluminum chloride, PACL) is added to the secondary clarifiers for improved solids and chemical phosphorus removal. Sludge is also received from the Town’s water treatment plant as it is discharged through the sanitary sewer system.

Settled primary and secondary sludges are withdrawn intermittently from the clarifiers through telescoping valves into separate sludge sight wells. Primary sludge is withdrawn between 8:00 AM and 12:00 AM (16 hours over two shifts). The primary sludge sight well (3,000 gallons) is filled 4-5 times during this period and pumped to the gravity sludge thickener (GST). Secondary sludge is withdrawn and pumped to the GST for 15 minutes each hour, 24/7. The pumping rate is about 50 gallons per minute. The total daily sludge flow (primary + secondary) to the GST is about 30,000 – 35,000 gallons. The mixed solids content average about 1.0-1.5%, and the estimated daily dry solids feed to the GST is about 3,700 lbs.

Underflow from the GST is pumped intermittently (15 minutes each hour) to a mesophilic anaerobic digester with a floating cover. The digester temperature is maintained by sludge recirculation through a “tube-in-a-tube” heat exchanger. Digester mixing is done with a Pearth™ gas mixing system integral with the floating cover. Digested sludge is pumped intermittently to a sludge holding tank with a flexible membrane cover for gas storage. Sludge is pumped from the sludge holding tank to a belt filter press for dewatering, operating 7-10 hours per day, 5 days per week. Dewatered cake drops into a dump truck below the dewatering building and is unloaded and stored on site on a covered sludge storage pad. Stored sludge is hauled and disposed off-site through contract operations. Dewatering filtrate is stored and equalized in a buffer tank, and then metered into the primary influent.



Existing Solids Handling Process Schematic

Key design information for the solids handling process tankage and equipment is summarized in **Table 5.1**.

Table 5.1: Existing Solids Handling Facilities and Equipment

Equipment	Year Installed	Design Parameter	Value
Primary Sludge Wet Well	1989	Volume	3,000 gallons
Primary Sludge Pumps	1989	Flowrate	50 gpm (piston pumps)
Secondary Sludge Wet Well	1989	Volume	3,000 gallons
Secondary Sludge Pumps	1989	Flowrate	50 gpm (piston pumps)
Gravity Sludge Thickener	1989	Diameter	28 ft
		Side Water Depth	12 ft
Anaerobic Digester	1989	Diameter	50 ft
		Side Water Depth, Maximum Straight	20 ft
		Maximum Operating Volume	293,000 gallons
		Working Volume, 85%	250,000 gallons
		Cover	Floating
		Mixing	Pearth™ Gas Mixing
		Boiler	Envirex 560,000 BTU/hr
		Heat Exchanger	Tube in Tube with hot water recirculation 42.21 sq ft HEX area
		Recirculation Pumps (2)	WEMCO Model 3 Size 4 X 3 Recessed Impeller Centrifugal 150 gpm @ 34 ft head
		Sludge Transfer Pumps - 6 Total: Transfer from GST underflow to Digester (2); Transfer from Digester to Sludge Storage (2); Transfer from Sludge Storage to Belt Filter Press (2)	ITT Marlow Model BE82W Plunger Pump 240 gpm @ 45 ft head
		Waste Gas Flare	Open style with manual ignition Mounted at grade 6-inch diameter
Sludge / Gas Holding Tank	1970	Diameter	40 ft
		Side Water Depth	20 ft
		Volume	185,000 gallons
		2010	Cover
Belt Filter Press	2012	Belt Width	1 meter
		Hydraulic Capacity, current operation	30-35 gpm
Filtrate Buffer Tank	2000	Volume	30,000 gallons
Dewatered Sludge Storage (covered)	1970	Length, Width Area	165 ft, 55 ft (8 bays) 9,330 sq ft

The estimated sludge production at the current permitted capacity of 2.5 MGD and for the expansion to 3.0 MGD is shown in **Table 5.2** as a flow proportional increase from the existing conditions.

Table 5.2: Projected Solids Loadings

Parameter	Annual Average Daily Influent Flow (MGD)		
	Current (1.9)	2.5	3.0
Total dry solids (lbs/day)	3,700	4,900 ¹	5,900 ¹
Volumetric flow (gallons per day) ²	45,000	59,000	70,500

¹ Proportional to plant flows at current solids estimates at annual average flow (1.9 MGD)

² Using annual average 1% combined total dry solids in the sludge feed

5.1 Sludge Pumping

Both the primary and secondary sludge pumping stations use piston (plunger) pumps to convey sludge from the sight wells to the GST influent. The pumps are maintenance intensive, and the Town has refurbished the pumps several times since the original installation in 1989 and is considering replacements in the near-term.



Sludge Pumps (primary and secondary sludge)

For the plant expansion to 3.0 MGD the sludge pump stations would be replaced with the new primary and secondary clarifier sludge pump stations as discussed in Section 4. The pumps and suction piping would be connected directly to the clarifier underflow piping in lieu of telescoping valves and sight wells. The pumps would be rotary lobe or progressing cavity type and located in the new pump station basement(s).

5.2 Gravity Thickening

Primary and secondary sludges are pumped (independently) to the gravity sludge thickener (GST). The GST is provided with a cover for odor control. As indicated in the 2020 Solids Handling Facilities report, the projected sludge flow and solids loading at the current permitted 2.5 MGD and expansion to 3.0 MGD capacity are within the typical design values for the existing GST and additional GST tanks would not be needed. However, the plant has recently experienced difficulty in settling the sludge in the GST resulting in diluted sludge to the digester and causing excessive carry-over solids in the GST overflow. This reduces the solids capture and results in increased levels of in-plant solids

recycle. This in turn has caused poor settling in the primary clarifiers and thus exacerbating the problem. The plant has started to add polymer to primary clarifiers and the GST influent and is considering also adding metal salt (PACl).



GST w/Cover



GST Interior

There is significant buildup of floatable debris which blinds the overflow weirs and traps solids. On a quarterly basis the cover is removed, and the debris is cleaned out (contract operation). Improving the influent screening could alleviate some of this and sludge screening (both primary and secondary sludges) is another option. The sludge screen would be housed in an adjacent building and tie into the GST sludge feed line.

Due to the age and the plant's operating experience, the GST needs a complete refurbishment including replacement of the sludge collection mechanism and pickets, center access bridge, cover, and concrete repairs, where needed. The Town has recently issued a construction contract to perform this work and should be completed in 2023.

5.3 Anaerobic Digestion

Thickened sludge is digested and stabilized in existing Anaerobic Digester No.1. Digester No. 2 is used for digested sludge holding, with no mixing or heating provided, prior to sludge dewatering (two-stage digestion). The plant's permit requires adequate capacity (volume, heating and mixing) to meet the Class B sludge stabilization requirements per EPA Part 503, i.e. solids retention time (SRT) of 15 days and volatile solids reduction of 38% or greater. At the projected sludge quantities for the current 2.5 MGD plant capacity the SRT Anaerobic Digester No. 1 is estimated at about 13-15 days, and at the expansion to 3.0 MGD, the SRT is estimated at about 10 days. To increase the digester SRT, there are two options:

- Reduce the sludge flow rate (volume) by increasing the thickened sludge underflow % solids
- Provide additional digester volume.

The 2020 Solids Handling Facilities report evaluated the options: 1) replacing the existing GST with mechanical thickening facilities to increase the thickened sludge underflow % solids or 2) adding a second primary digester (similar in size to the existing digester). The evaluation found that the cost of a new digester with control building, would be comparable to building new mechanical sludge thickening facilities that would require thickening equipment, power and control building, sludge pumps, chemical feed and sludge holding tankage (since mechanical thickening is typically not operated 24/7 like the GST). It was also considered to modify Digester No. 2 to become a primary digester;

however, this would leave the plant without sludge holding/storage prior to sludge dewatering and new tankage would need to be constructed.



Primary Digester No. 1



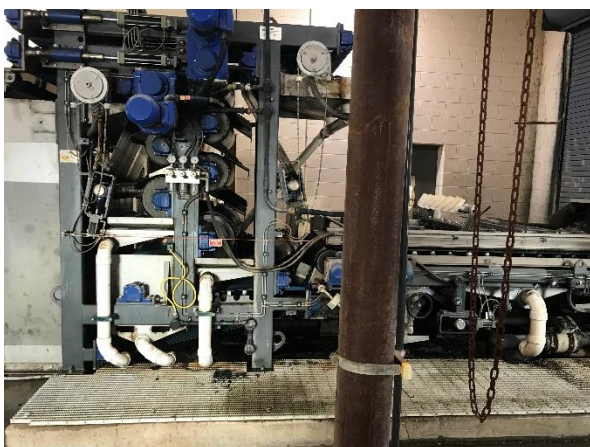
Digested Sludge Holding and Gas Storage

To provide adequate operational flexibility and to meet sludge stabilization requirements, a second, new, primary digester is recommended for the plant expansion to 3 MGD. A new electrical service and standby power will be required for the second digester facility. As the plant flows gradually near the 2.5 MGD permitted capacity the planning and design of the new digester facility should be initiated such that a new primary digester is constructed and operational in the anticipation of further increase in average plant flows.

Given the age and condition of the existing digester, it is recommended that the existing digester plug valves, heat exchanger, sludge pumps (feed, recirculation and transfer) and electrical motor control center (MCC) be replaced in the near-term to improve operability of the existing equipment and extend the service life. It is also anticipated that the membrane cover for the digested sludge holding tank will need replacement (installed in 2010) in the next 5-10 years.

5.4 Sludge Dewatering

The existing 1-meter sludge dewatering belt filter press (BFP) is relatively new (Installed in 2012). Dewatering operation is on weekdays during normal shift hours, typically 50 hours/week (10 hours/day, 5 days/week), processing about 12,600 gallons per day with a sludge feed rate of 30 gpm to the BFP. The average dry solids cake is about 13-14%. Dewatered sludge is transferred to the adjacent covered storage.



Belt Filter Press (sludge dewatering)



Dewatered Cake Transfer to On-Site Storage

Based on the projected sludge quantities at the expansion to 3.0 MGD an increase in BFP operating time is expected. As the flows near 2.5 MGD the operating time will require two full shifts (16 hours) and at the expansion to 3.0 MGD, weekend operation may also be required. It is recommended a new higher capacity BFP, 1.5 meter or 2-meter size, be considered in the long-term planning, to increase the throughput and reduce the dewatering hours. It should be feasible to fit at least a 1.5-meter BFP in the existing dewatering room. Another option is to consider alternate dewatering equipment such a conventional centrifuge or a screw press. Both machines can achieve higher cake solids (20% or higher) which would reduce hauling and disposal costs and eliminate the need for additional cake storage area.

The dewatering filtrate, which is high in ammonia, is stored and equalized in a 30,000-gallon tank and returned to the primary influent at a controlled rate to equalize the nitrogen (ammonia) recycle load to the plant. The existing holding/equalization tank is adequate.

5.5 Dewatered Sludge Storage

Dewatered sludge/biosolids is stored on-site and periodically hauled out for off-site land application through third party contract operations. As reviewed in the 2020 Solids Handling Facilities report, the existing sludge storage area footprint will need to increase for additional sludge storage at 2.5 MGD, and expansion to 3.0 MGD. It is recommended to expand the existing slab by 10-15 feet to the west (into the hill on the side of the digesters) and construct a concrete retaining/push wall (to replace the existing wooden barrier). In addition, the existing clear roof height is inadequate for full access and operation of a wheel loader to move the sludge. A new pre-engineered metal building (PEMB) frame is recommended to replace the roof over the existing and proposed expansion area. These modifications could be near-term depending on the contract hauling frequency or considered long-term improvements.



Biosolids Storage (back-end view)

5.6 Future Biosolids Management and Disposal

The current anaerobic digestion process at Warrenton WWTP is permitted as an EPA 503 “Process to Significantly Reduce Pathogens” (PSRP) that produces Class B biosolids for land application, with the requirement that the sludge in the anaerobic digester is held for at least 15 days (pathogen reduction) and achieving at least 38% volatile solids reduction (vector attraction reduction).

State biosolids regulations are likely to become more stringent in the future. There may be more reporting requirements, a higher quality of biosolids required for land application, reductions in land application rates, and restrictions on land available for application. With potentially more stringent biosolids disposal regulations in the future, the flexibility to produce Class A biosolids should be considered. Class A biosolids will have fewer restrictions on where they can be land applied. Allowable disposal areas include publicly accessible and residential lands.

To achieve Class A quality, the biosolids must undergo one of the EPA 503 approved treatment Processes to Further Reduce Pathogen (PFRP) levels. While there are advanced digestion and pre-treatment alternatives that can achieve Class A, one of the common methods involves heat drying the (anaerobically digested) dewatered cake to greater than 90% dry solids. Heat drying will also reduce on-site storage requirements and transportation costs. Even though significant energy (from natural or digester gas) will be required, an evaluation including cost savings in disposal, i.e., through beneficial reuse compared to landfilling, could show benefits in Class A heat drying.

The higher the percent solids in the dewatered cake, the less heat energy that must be used to dry the cake. In fact, the capital and higher operating costs of new dewatering equipment can potentially be fully offset by subsequent fuel savings in the heat drying operation. Therefore, it is common to dewater sludge using centrifuges (or screw press) to increase the dewatered sludge solids. The centrifuge (or screw press) would replace the existing belt filter press in a future scenario.

There are several sludge dryers available, generally categorized into a direct and indirect type. A paddle-type dryer, is an indirect dryer that would be appropriate for Warrenton WWTP. A heat transfer oil would be heated in a natural gas fired boiler, and the hot oil would be circulated through the hollow paddle mixer elements. The paddles rotate to mix the sludge, improving heat transfer characteristics, and to transport the sludge through the dryer. Dried biosolids would be conveyed to and stored on-site under cover before off-site hauling.



Komline-Sanderson Paddle Dryer



The dryer would be housed in a building adjacent to the dewatering process. Part of the existing sludge storage facility could be removed to make room for the heat drying facility since less storage area would be required for the dried cake. A heat drying facility could be implemented through a turn-key project where a third-party entity would design, build and operate the facility for a given contract period, typically 20 years. The plant would still operate the anaerobic digester(s) with the flexibility to produce both Class B and Class A biosolids.

6 PLANT HYDRAULICS

The existing plant was designed with a maximum hydraulic capacity of 5 MGD (based on the 1990 upgrade), although the plant has historically experienced higher flows and conveyed through the plant without overflows. As part of the UV-Disinfection upgrade in 2006 and Nutrient Removal upgrade in 2009 some of the previous hydraulic restrictions in the plant were eliminated, and as discussed herein, it is recommended that the former trickling filter be used for high flow management to limit the peak flows through the plant to 9 MGD, after the influent headworks. This corresponds to a peak flow factor of 3.0 through the plant (from primary treatment onwards to post aeration) associated with the plant expansion to 3.0 MGD ADF. The DN Filter and Pumping Station, as well as the recent MBBR process, were hydraulically designed for 9 MGD.

Refer to **Appendix I** for a preliminary Hydraulic Profile for the plant.

7 RECOMMENDED FACILITY PLAN

Based on the foregoing evaluations of the existing plant treatment facilities and anticipated plant flow increase the recommended implementation of the plant upgrades and expansion fall into three phasing categories as summarized below.

“Near-term” improvements include needed upgrades and retrofits planned for the next 0 – 5 years to keep the plant reliably operating and the extend service life of treatment processes and equipment. These are considered part of the Town’s Capital Asset Replacement Program (CARP). From a fiscal planning aspect, short term (0 – 2 years) and intermediate term (2 – 5 years) improvement phases are considered. The plant expansion horizon is longer term, 5 – 10 years out, as flows gradually approach the current permitted average design flow of 2.5 MGD and the need to expand treatment processes become necessary. Plant expansion is under the Town’s Capital Improvements Program (CIP) and is envisioned to increase the permitted capacity by 0.5 MGD, to 3.0 MGD. The Town has had discussions with the VADEQ about including the plant expansion provision in the next permit cycle. New discharge limitations associated with 3.0 MGD ADF would be included in the permit and conditional upon the full implementation of the plant expansion elements as recommended in this Preliminary Engineering Report. The timeline indicated for each phase reflects the initial planning, design and bid documents to advertise for construction, but not the actual construction completion time.

Pending future conditions, plant flows, budget planning and improvement needs, certain facility upgrades and expansion elements shown below could be accelerated or deferred to another phase.

Phase I CARP Upgrades (0 – 2 years) – Estimated Planning Level Costs: \$1.0 – 1.5M

Primary Clarifiers

- Replacement of sludge collection mechanism and motor drives (for three of four PC units)

Secondary Clarifiers

- Replacement of sludge collection mechanism and motor drives (for both SC units)
- Flash Mixing / Flocculation Tank (valve replacement; piping size upgrade; hydraulic bottleneck)

UV-Disinfection

- Electrical system and controls upgrade (construction contract has been procured and work is upcoming)

Post Aeration Tank

- Misc. Surface aerator motor replacement

Gravity Sludge Thickener (GST)

- All equipment replacement and interior concrete repairs (construction contract is pending approval)

Phase II CARP Upgrades (2 – 5 years) – Estimated Planning Level Costs: \$5.5 – 6.0M

New Headworks Facility (CIP)

- Replace existing facilities with new screening and grit removal with expanded treatment capacity

Plant Pumping Station

- Pump upgrades and electrical/controls improvements

Chemical Storage Tanks

- Replace polymer-aluminum chloride (PACl) tanks and provide secondary containment

Sludge Pumps

- Upgrade primary and secondary sludge pumps and electrical/controls

New Sludge Screen

- Optional: Install new primary/secondary sludge screen before the GST

Primary Digester Upgrade

- Various upgrades/renovations:
 - Digester cover
 - Sludge Pumps
 - Digester Mixing
 - Heat Exchanger
 - Misc. Valve replacements
 - Electrical upgrades (MCC)

Digested Sludge Storage

- Piping modifications and gas storage membrane cover replacement

Dewatered Sludge Storage

- Expand storage area

Phase III CIP Plant Expansion (5 – 10 years) – Estimated Planning Level Costs: \$12.5 – 13.0M

New Primary Clarifiers

- Clarifiers, flow distribution, sludge pump station
- Conversion of one existing PC to sludge blending and holding

New Secondary Clarifiers

- Clarifiers, flow distribution, sludge pump station

Plant Hydraulics

- Misc. piping size upgrades associated with plant capacity expansion

New Primary Digester No. 2

- Digester tank, cover, mixing, heating, pumps, electrical and controls
- New electrical service and standby power

Sludge Dewatering

- New larger size belt filter press, or replacement with new dewatering screw press

The following **Table 7.1** provides a planning level cost breakdown of the improvements/expansion items for the liquid treatment and solids handling processes with the phasing (1, 2 or 3), CARP and CIP indicated. It should be noted that annual costs for routine equipment maintenance and spare parts replacement are not included. The second **Table 7.2** shows the anticipated planning level fiscal phasing of improvements over the next five (5) years to 2027. Again, as future conditions may change the scheduling of the CARP or CIP expenditures can adjust.

Facility Site Plan: **Appendix J** shows the proposed facility site layout for the plant expansion with the new facilities including headworks (screen and grit removal), primary clarifiers, secondary clarifiers and additional primary digester. The headworks facility would be constructed adjacent to the existing influent screen and grit channels, keeping those in service while the new headworks is being built. The two new secondary clarifiers would be located in the area of the former RBCs, in a rectangular configuration with common wall to save footprint. The additional primary digester would be constructed into the hill behind the sludge storage and near the digested sludge holding tank. There are two options for the new primary clarifiers: Layout “A” in the open area adjacent to the former trickling filter (to be converted to high flow management and flow equalization); or Layout “B” where the existing secondary clarifiers are converted to primary clarifiers as discussed in Section 4. This would save construction costs and preserve the land area between the plant entrance and the trickling filter. However, it requires that the new secondary clarifiers be built first.

Table 7.1: Upgrade and Expansion Phasing and Planning Level Costs

Item	Phase	CARP	CIP	Est. Cost ¹	Notes
Liquid Treatment				\$10,175,000	
New Headworks Building (screen & grit)	2		X	\$1,800,000	Replace existing facilities
Ex Primary Clarifier Upgrades	1	X		\$200,000	Sludge collection equip/CF drives
New Primary Clarifiers & Sludge PS	3		X	\$3,500,000	
Ex. Plant Pumping Station Upgrade	2	X		\$250,000	Pump upgrade, electrical/controls
Ex. MBBR ²				\$0	No Improvements ²
Ex. Secondary Clarifier & Flocc Tank Upgr.	1	X		\$250,000	Sludge collection equip/CF drives
New Secondary Clarifiers & Sludge PS	3		X	\$3,500,000	Incl. RBC Demo
Ex. DN Filter Pumping Station ²				\$0	No Improvements ²
Ex. DN Filters ²				\$0	No Improvements ²
Ex. UV-Disinfection	1	X		\$300,000	System Controls Upgrade (ongoing)
Ex. Post-Aeration Tanks Upgrade	1	X		\$25,000	Minor
Ex. Plant NPW Pumps ²				\$0	No Improvements ²
Chemical Storage Tanks Upgrade	2	X		\$200,000	New PACL Tanks & Containment
Misc Plant Hydraulics / Piping Upgrade	3	X		\$150,000	Piping size upgrades
Solids Handling				\$9,150,000	
Ex. Primary Sludge Pumps Upgrade	2	X		\$150,000	Pump upgrade, electrical/controls
Ex. Secondary Sludge Pumps Upgrade	2	X		\$150,000	Pump upgrade, electrical/controls
Gravity Sludge Thickener (GST) Upgrade	1	X		\$350,000	Construction contract pending
New Sludge Screen w/Enclosure	2		X	\$300,000	Optional (pending GST + Headworks)
Ex. Primary Digester Upgrade	2	X		\$2,000,000	Various upgrades/renovation
- Digester cover					- currently under replacement
- Sludge pumps					
- Digester mixing					
- Heat exchanger					
- Misc valves and other					
- Electrical Upgrade					
Ex. Digested Sludge Storage Upgrade	2	X		\$350,000	Piping Mods/ Membrane Cover Repl.
New Digester No. 2	3		X	\$5,000,000	Incl new Elec Standby Power
Sludge Dewatering Expansion	3		X	\$500,000	New 2 meter BFP, or Screw Press
Expand Dewatered Sludge Storage	2		X	\$350,000	
<i>Future Class A Biosolids Heat Dryer³</i>	3		X	\$0	<i>Future planning (beyond Phase 3)</i>
Total Construction Costs				\$19,325,000	
Phase 1: Short Term (0-2 years)				\$1,125,000	
Phase 2: Intermediate Term (2-5 years)				\$5,250,000	
Phase 3: Long Term (5-10 years)				\$12,650,000	
CARP: Capital Asset Replacement Program				\$4,375,000	
CIP: Capital Improvements Program (plant expansion to 3.0 MGD)				\$14,650,000	
¹⁾ 2021 dollars (construction costs) ²⁾ No CARP or CIP anticipated; only O&M costs ³⁾ Estimated cost in order of magnitude: \$10M (dryer equipment, building, dewatering upgrade)					



Table 7.2: Fiscal Budget Planning
WWTP CIP/CARP Projects

			2022	2023	2024	2025	2026	2027	Beyond	Totals
Ex. UV Disinfection	CARP	Expansion	\$300,000							\$300,000
Ex. Gravity Sludge Thickener Upgrades	CARP	N	\$350,000							\$350,000
Ex. Post-Aeration Tank Upgrade	CARP	N	\$25,000							\$25,000
Ex. Primary Sludge Pump Upgrades	CARP	N	\$150,000							\$150,000
Ex. Secondary Sludge Pump Upgrades	CARP	N		\$150,000						\$150,000
Ex. Chem. Storage Tank Upgrade	CARP	N		\$200,000						\$200,000
Ex. Digested Sludge Storage Upgrade	CARP	N		\$350,000						\$350,000
Ex. Primary Clarifier Upgrades	CARP	N		\$200,000						\$200,000
Ex. Plant Pump Station Upgrade	CARP	N			\$250,000					\$250,000
Ex. Primary Digester Upgrade	CARP	N			\$500,000					\$500,000
New Headworks Building	CIP	Y			\$100,000					\$100,000
Expand Dewatered Sludge Storage	CIP	Y			\$1,000,000					\$1,000,000
New Sludge Screen w/Enclosure	CIP	Y			\$500,000					\$500,000
Ex. Secondary Clarifier Upgrades	CARP	N		\$300,000						\$300,000
New Primary Clarifiers & Sludge Pump Station	CIP	Y				\$250,000				\$250,000
New Secondary Clarifier & Sludge Pump Station	CIP	Y				\$1,000,000				\$1,000,000
Misc Plant Hydraulics/Piping Upgrade	CIP	Y				\$150,000				\$150,000
Sludge Dewatering Expansion	CIP	Y				\$100,000				\$100,000
New Digester No. 2	CIP	Y				\$400,000				\$400,000
									\$5,000,000	\$5,000,000
Total Construction Costs (2021 dollars)			\$825,000	\$1,200,000	\$750,000	\$1,350,000	\$3,350,000	\$3,850,000	\$5,000,000	\$19,325,000

CARP: Capital Asset Replacement Program
CIP: Capital Improvements Program (plant expansion to 3.0 MGD)



Figures

FIGURE 1
Daily Plant Influent Flows 2013 - 2021

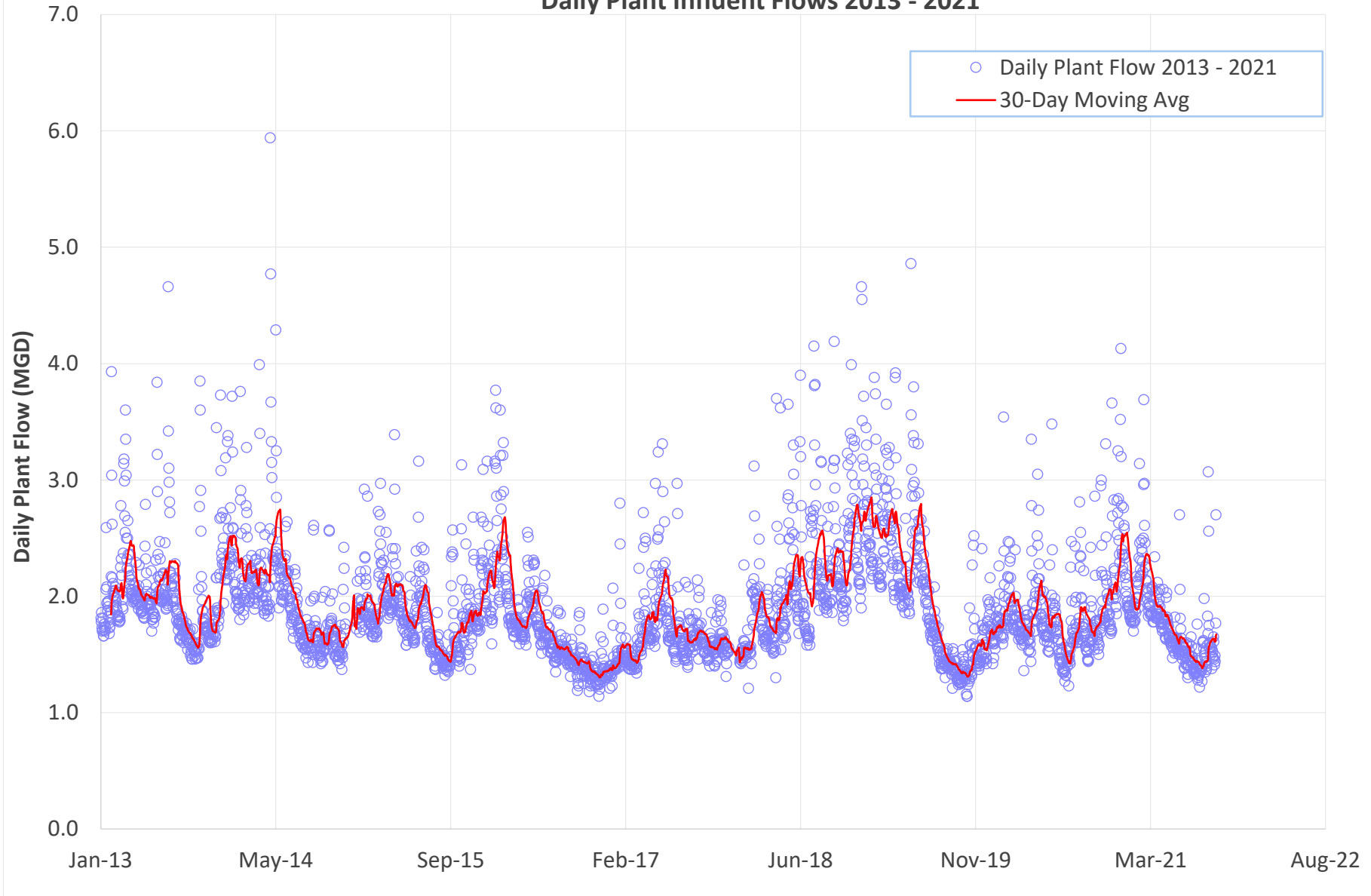


FIGURE 2
Peak Daily Plant Flows 2013 - 2021

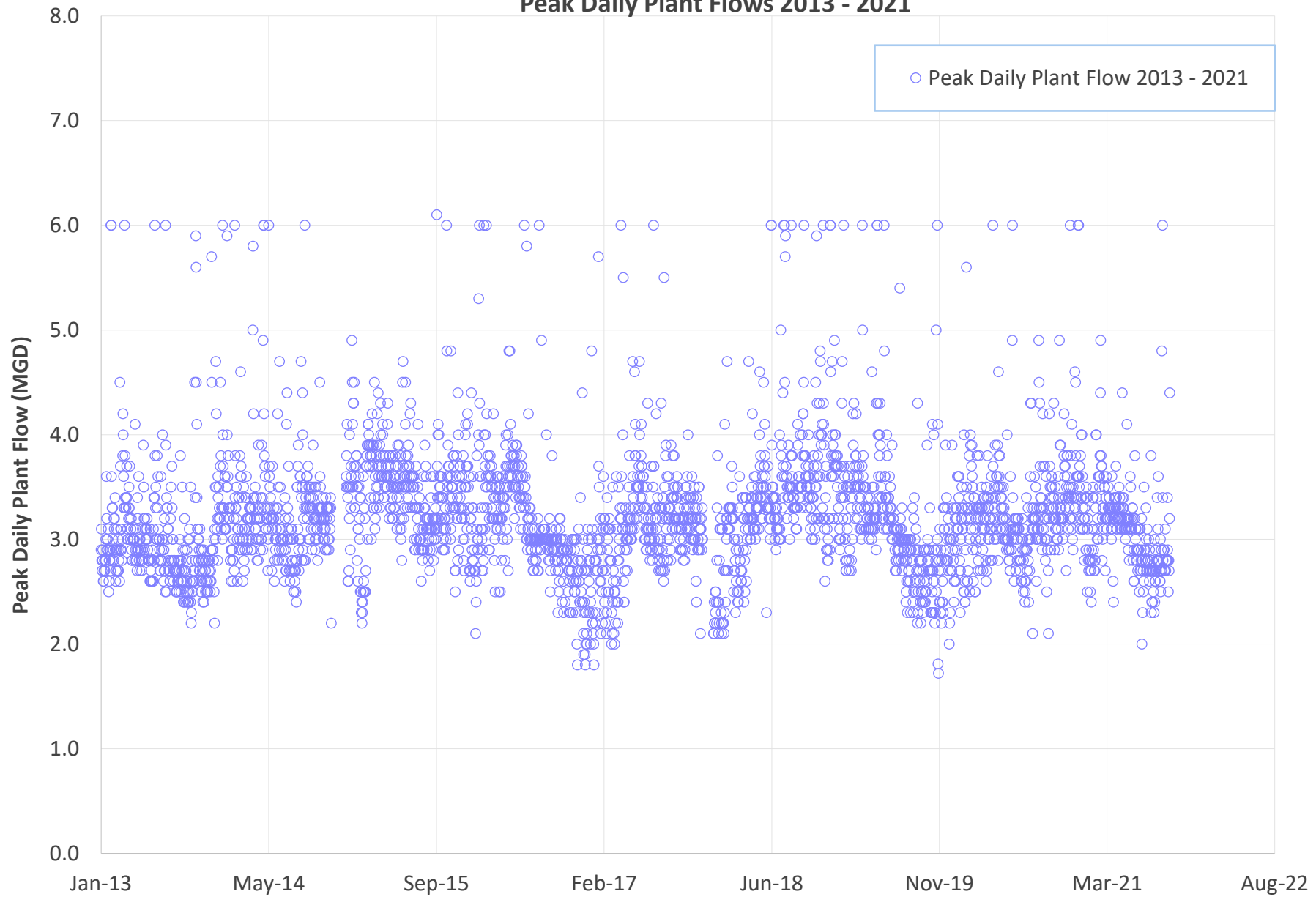


FIGURE 3A
Effluent BOD₅ Monthly Conc. 2013 - 2021

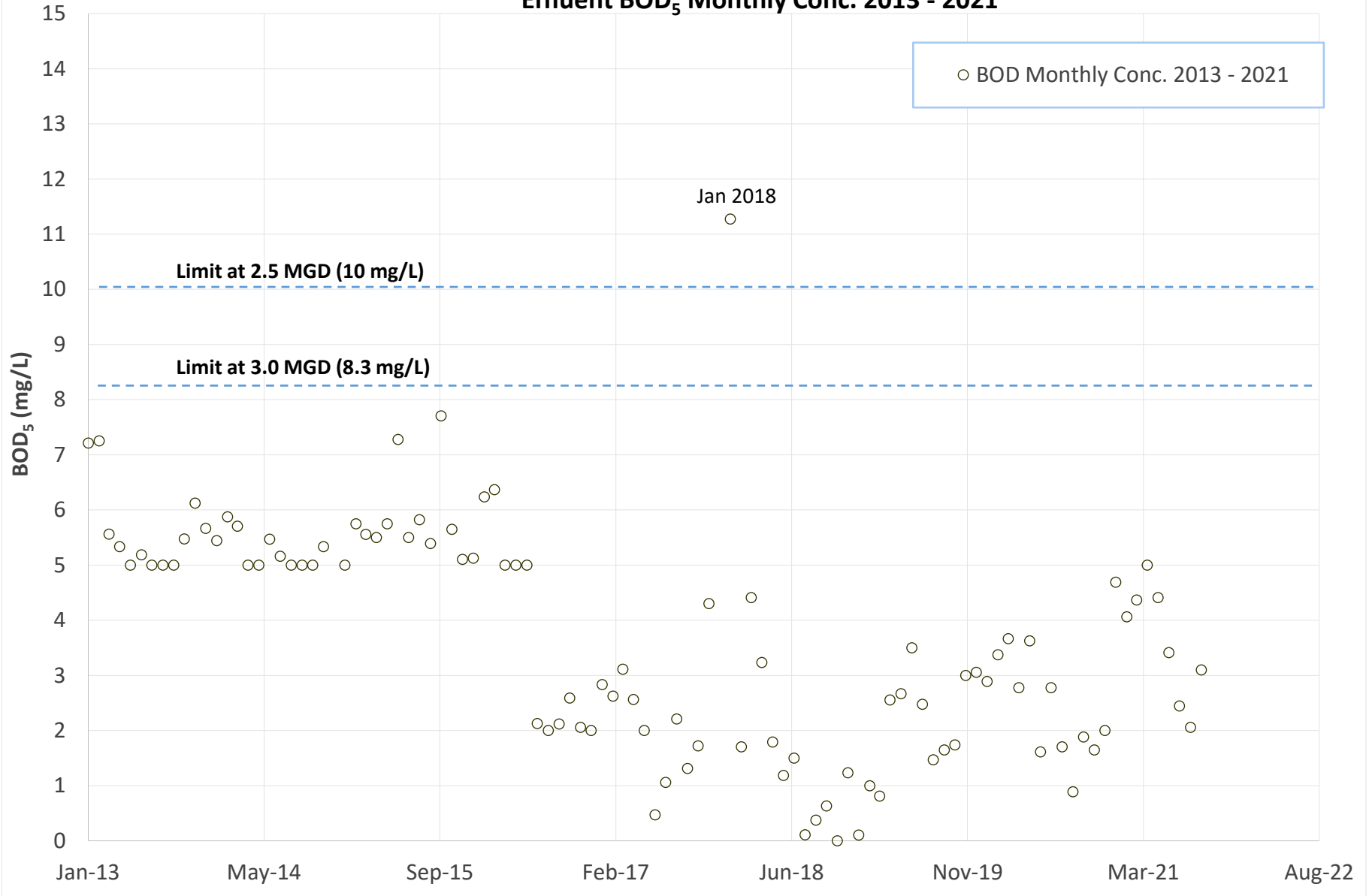


FIGURE 3B
Effluent BOD₅ Weekly Conc. 2013 - 2021

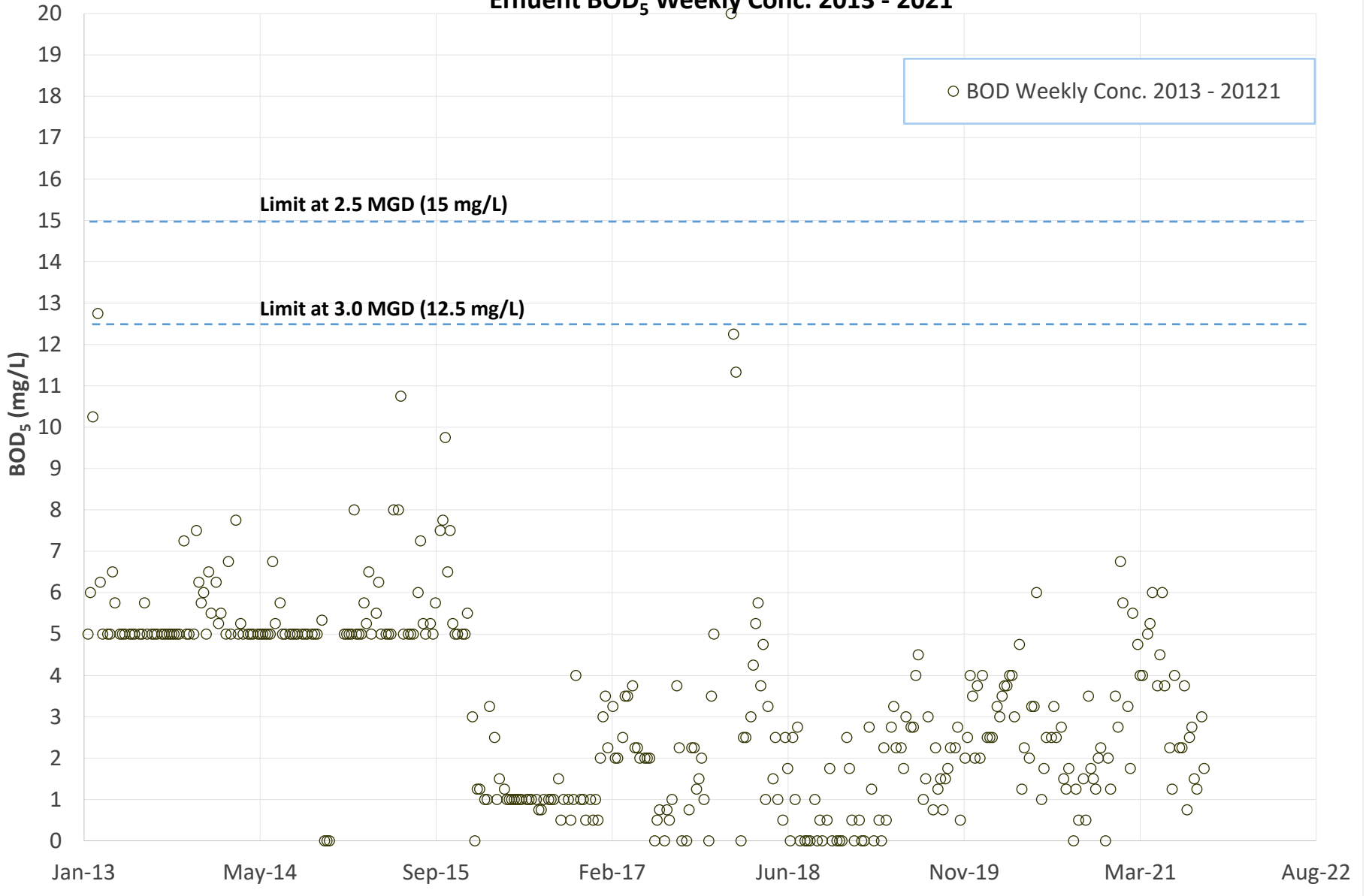


FIGURE 4A
Effluent TSS Monthly Conc. 2013 - 2021

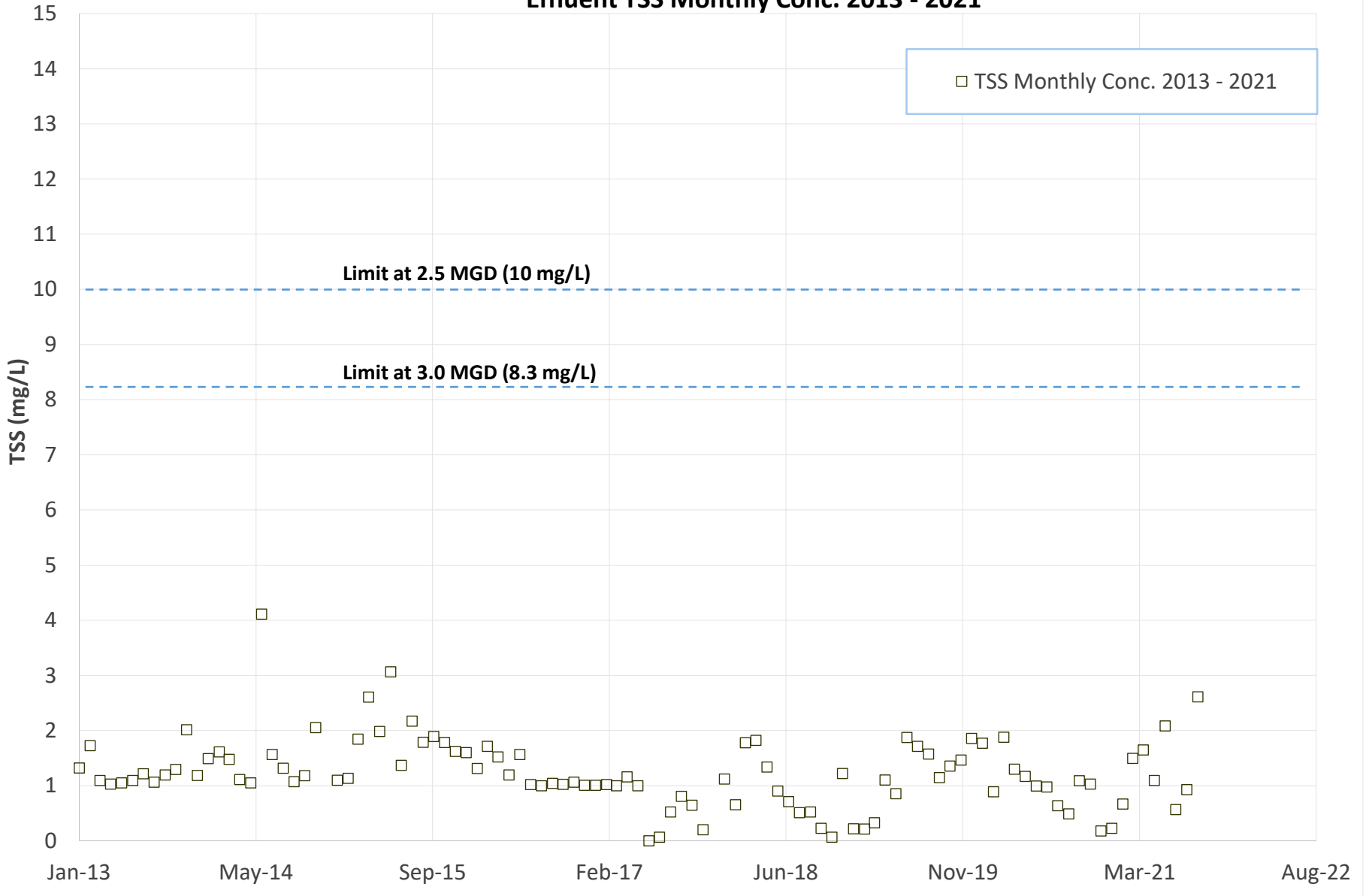


FIGURE 4B
Effluent TSS Weekly Conc. 2013 - 2021

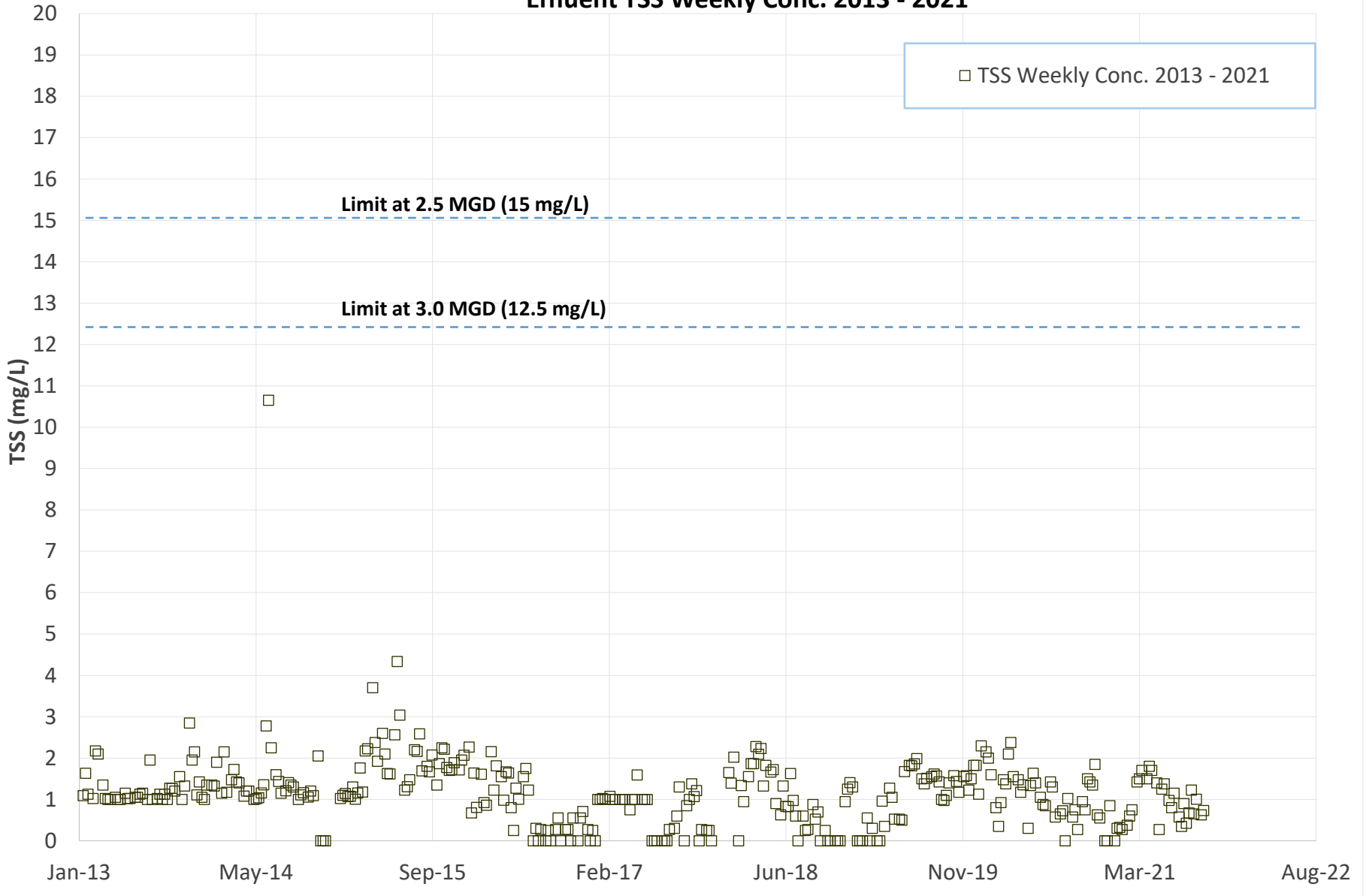


FIGURE 5A
Effluent Ammonia-N Monthly Conc. 2013 - 2021

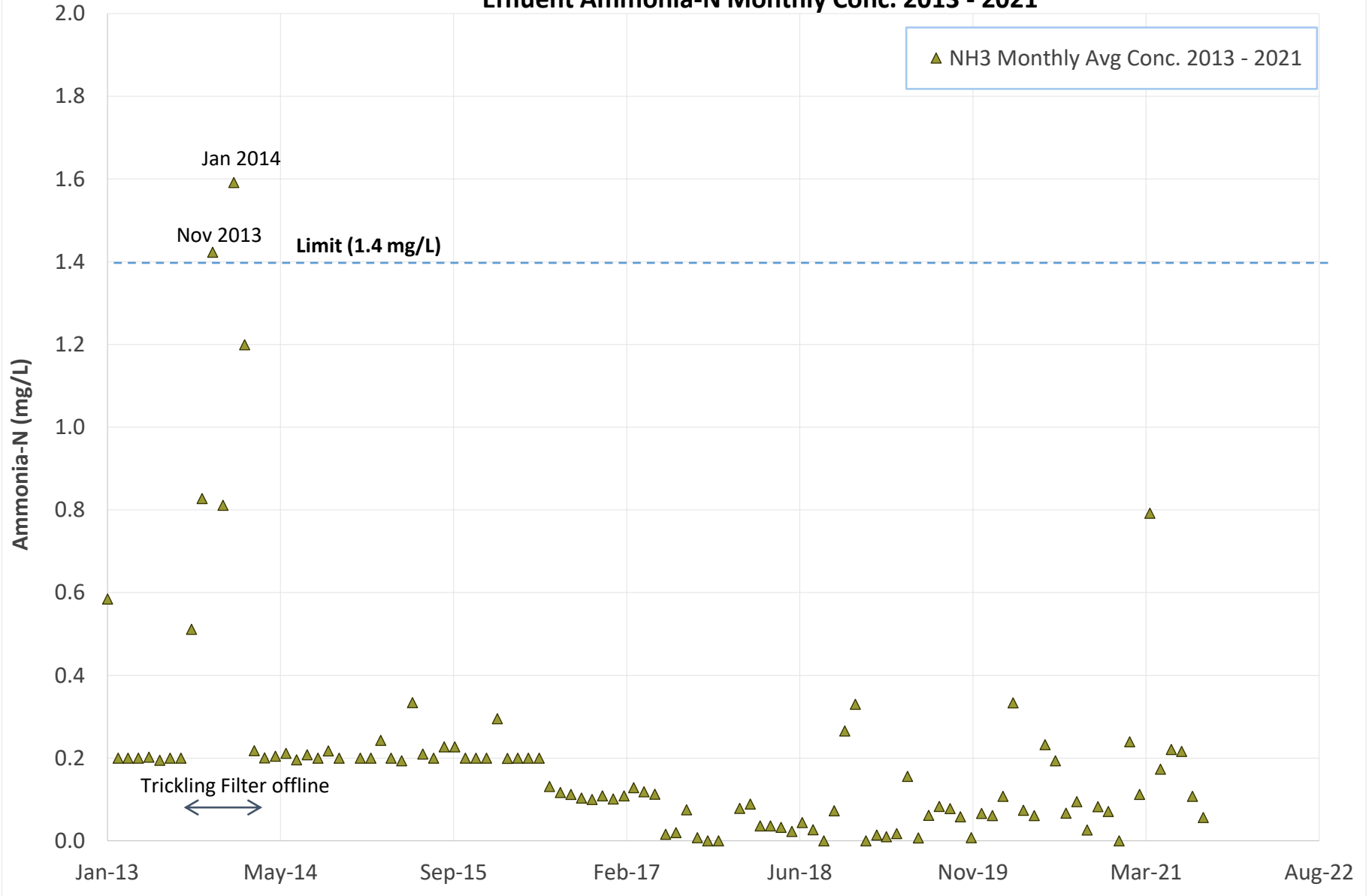


FIGURE 5B
Effluent Ammonia-N Weekly Conc. 2013 - 2021

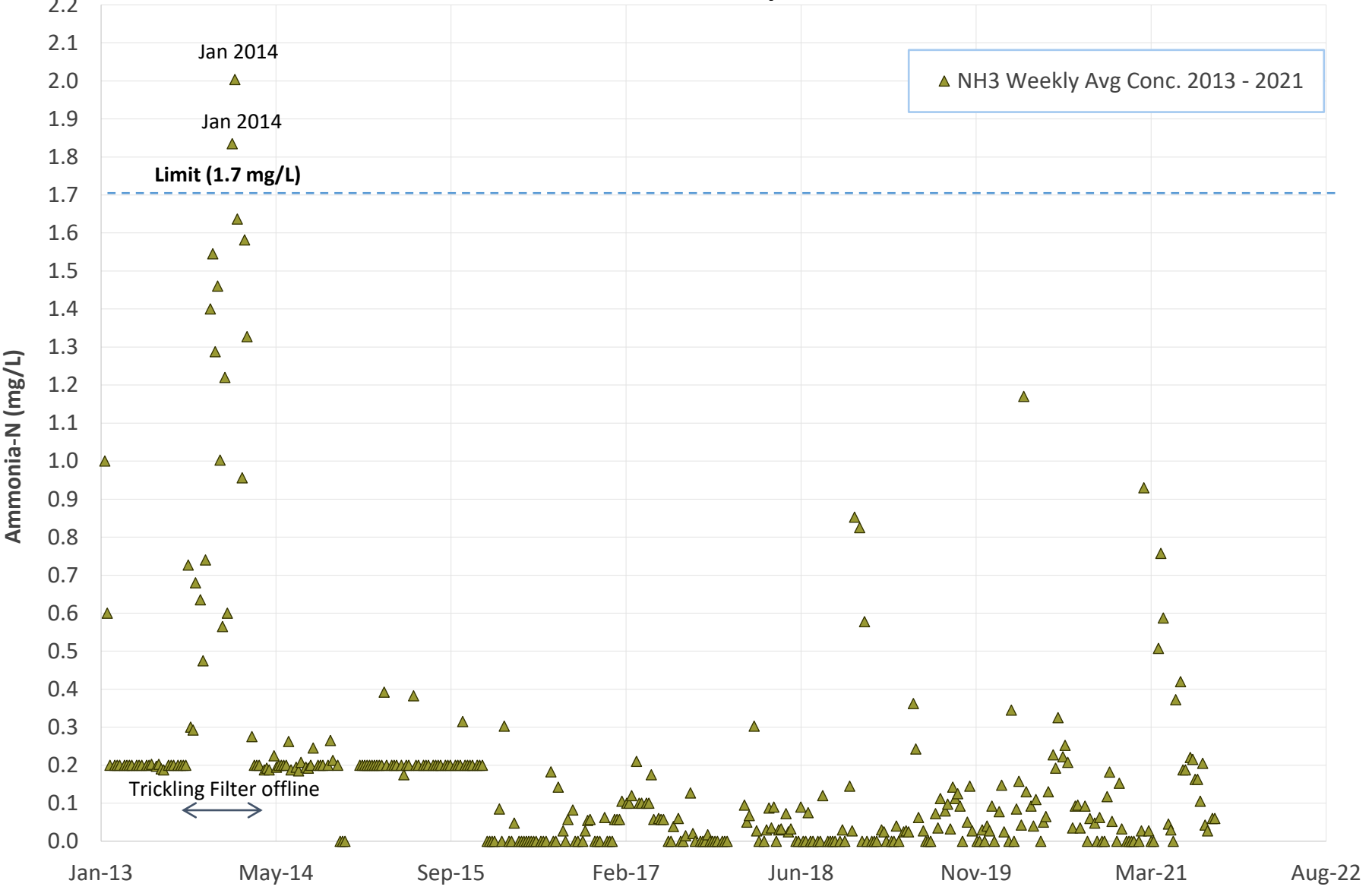


FIGURE 6
Effluent TN Monthly Conc. 2013 - 2021

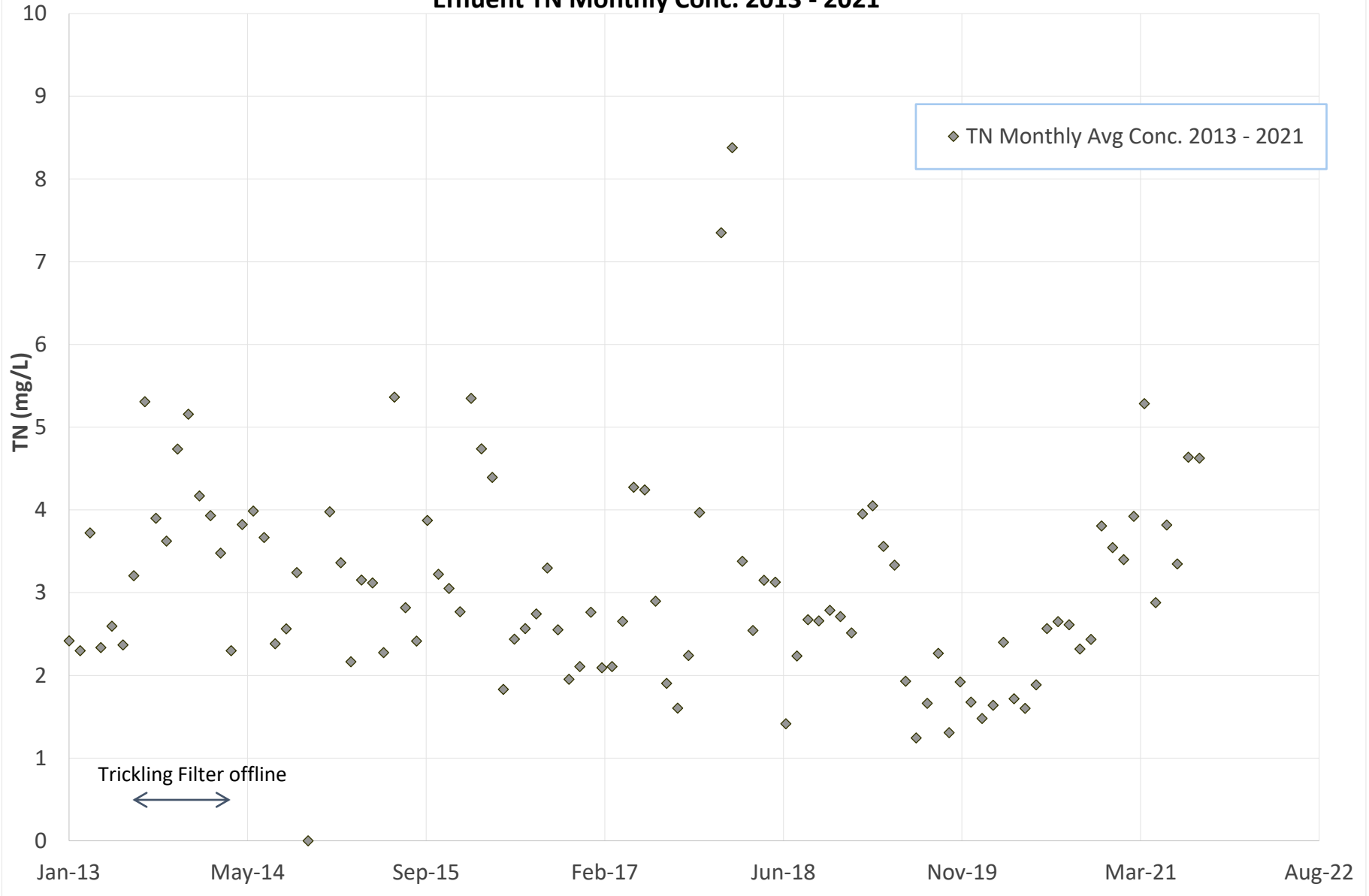
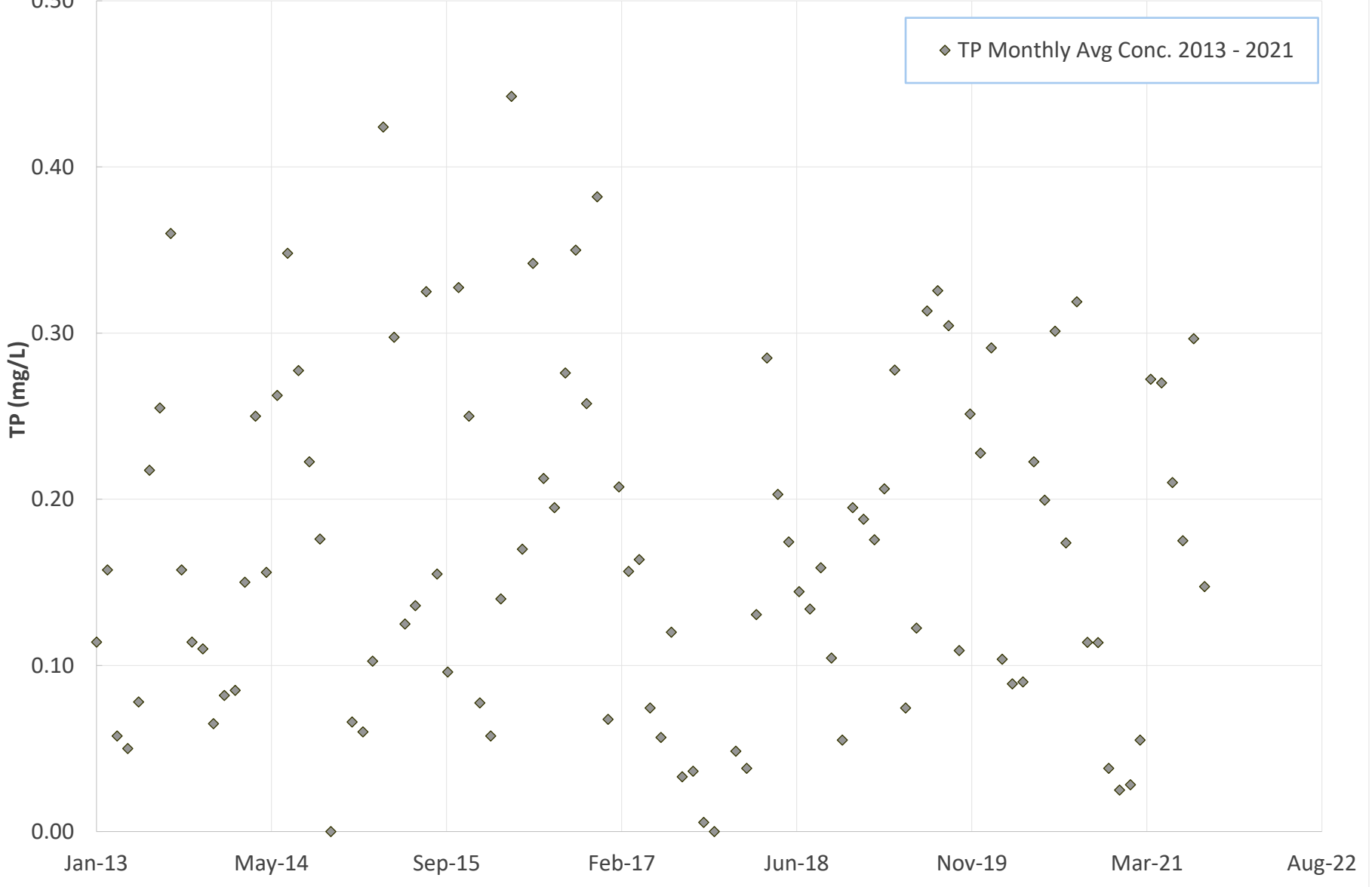


FIGURE 7

Effluent TP Monthly Avg Conc. 2013 - 2021



Appendices

Appendix A

Plant NPDES Discharge Permit



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

NORTHERN REGIONAL OFFICE
13901 Crown Court, Woodbridge, Virginia 22193
(703) 583-3800
www.deq.virginia.gov

Molly Joseph Ward
Secretary of Natural Resources

David K. Paylor
Director

Thomas A. Faha
Regional Director

11 July 2016

CERTIFY RECEIPT REQUESTED

Via email at etucker@warrentonva.gov

Edward B. Tucker, Jr.
Director of Public Works and Utilities
Town of Warrenton
Post Office Drawer 341
Warrenton, VA 20188-0341

Re: Reissuance of VPDES Permit No. VA0021172
Town of Warrenton Wastewater Treatment Plant
Fauquier County

Dear Mr. Tucker:

The Department of Environmental Quality (DEQ) has approved the enclosed effluent limitations and monitoring requirements for the aforementioned permit. Copies of your permit and fact sheet are enclosed.

Discharge Monitoring Report (DMR) forms, excluding sludge DMRs, are no longer included in the reissuance package since you are enrolled in DEQ's electronic DMR (eDMR) program. The first electronic DMR submittal for the month of August is due by 10 September 2016. Please reference the effluent limits in your permit and report monitoring results in eDMR to the same number of significant digits as are included in the permit limits for the parameter.

The regional contact for eDMR is Rebecca Vice; she can be reached at 703-583-3922 or by email at Rebecca.Vice@deq.virginia.gov.

Please note that compliance with the permit's requirements for use and disposal of sewage sludge does not relieve you of your responsibility to comply with federal requirements set forth in 40 CFR Part 503. Until DEQ seeks and is granted authority to administer the Part 503 regulations by EPA, treatment works treating domestic sewage should continue to work directly with EPA to comply with them. For more information, you can call the EPA Region III office in Philadelphia at 215-814-5735.

Please note that if this permit is to be reissued in five years, there are specific testing requirements associated with the Form 2A reissuance application that are different from the testing requirements in your permit. In order to provide the necessary data for Form 2A you may need to begin additional sampling during the term of this permit prior to receiving a reissuance reminder letter from this agency. Please look at Form 2A Part D (Expanded Effluent Testing Data) and Part E (Toxicity Testing Data) for the sampling requirements. Please note that DEQ and EPA will no longer accept waiver requests from the sampling or testing requirements in the application forms.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first) within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period.

VA0021172
Final Permit to Facility
11 July 2016
Page 2 of 2

Alternately, any owner under §§ 62.1-44.16, 62.1-44.17, and 62.1-44.19 of the State Water Control Law aggrieved by any action of the State Water Control Board taken without a formal hearing, or by inaction of the Board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the Board. Said petition must meet the requirements set forth in §1.23(b) of the Board's Procedural Rule No. 1. In cases involving actions of the Board, such petition must be filed within thirty days after notice of such action is mailed to such owner by certified mail.

A Reliability Class I is assigned to this facility and this facility has Class I licensed operator requirements.

Please contact Douglas Frasier at 703-583-3873 or via email at Douglas.Frasier@deq.virginia.gov should you have any questions concerning the permit.

Respectfully,



Jr Bryant Thomas
Regional Water Permits & Planning Manager

Enc.: Permit for VA0021172
Fact Sheet for VA0021172

cc: DEQ-Water, OWPP
EPA-Region III, 3WP12
Department of Health, Culpeper
Water Compliance, NRO
Allen Chichester, Wastewater Superintendent via achichester@warrentonva.gov

Municipal Major 07/05/2016
 DEPT. OF ENVIRONMENTAL QUALITY
 (REGIONAL OFFICE)
 Northern Regional Office
 13901 Crown Court
 Woodbridge VA 22193

COMMONWEALTH OF VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL QUALITY
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
 DISCHARGE MONITORING REPORT(DMR)

VA0021172	801	
PERMIT NUMBER	DISCHARGE NUMBER	
MONITORING PERIOD		
YEAR	MO	DAY
FROM	TO	

NAME Warrenton Town Sewage Treatment Plant
 ADDRESS Town of Warrenton VA 20186
 Warrenton
 FACILITY LOCATION 731 Frost Ave

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
672 SOLIDS, TOTAL, SLUDGE AS PERCENT	*****	*****		*****	NA			1/3M	COMP
	*****	*****		*****	75	MG/KG		1/3M	COMP
681 MOLYBDENUM, SLUDGE	*****	*****		*****	75	MG/KG		1/3M	COMP
	*****	*****		*****	7500	MG/KG		1/3M	COMP
683 LEAD, SLUDGE	*****	*****		*****	300	MG/KG		1/3M	COMP
	*****	*****		*****	420	MG/KG		1/3M	COMP
684 NICKEL, SLUDGE	*****	*****		*****	57	MG/KG		1/3M	COMP
	*****	*****		*****	1500	MG/KG		1/3M	COMP
685 MERCURY, SLUDGE	*****	*****		*****	4300	MG/KG		1/3M	COMP
	*****	*****		*****					

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD(K.G.)	OPERATOR IN RESPONSIBLE CHARGE		DATE	
				TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.
	I, CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHEMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY OBTAIN AND VALIDATE THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR OBTAINING THE INFORMATION, THE INFORMATION IS ACCURATE AND COMPLETE, I AM AWARE THAT THESE ARE AND BEING TRUE, ACCURATE AND COMPLETE, I AM AWARE THAT THESE ARE SIGNIFICANT RESULTS FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR BREACHING VIOLATIONS.			PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	YEAR	MO.
			TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)**

Municipal Meior 07/05/2016
DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Northern Regional Office
13901 Crown Court
Woodbridge VA 22193

VA0021172	601		
PERMIT NUMBER	DISCHARGE NUMBER		
MONITORING PERIOD			
YEAR	MO	DAY	
TO	YEAR	MO	DAY

NAME Warrenton Town Sewage Treatment Plant
ADDRESS Town of Warrenton VA 20186
FACILITY LOCATION 731 Frost Ave

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

FROM

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
687 CADMIUM, SLUDGE	*****	*****		*****					
REPORTD	*****	*****		*****	39			1/3M	COMP
REQRMNT	*****	*****		*****	*****				
688 LEVEL OF PATHOGEN REQUIREMENTS ACHIEVED	*****	*****		*****					
REPORTD	*****	*****		*****	NIL			1/3M	COMP
REQRMNT	*****	*****		*****	*****				
689 DESCRIPTION OF PATHOGEN OPTION USED	*****	*****		*****					
REPORTD	*****	*****		*****	NIL			1/3M	COMP
REQRMNT	*****	*****		*****	*****				
690 VECTOR ATTRACTION REDUCTION OPTION USED	*****	*****		*****					
REPORTD	*****	*****		*****	NIL			1/3M	COMP
REQRMNT	*****	*****		*****	*****				
697 SELENIUM, SLUDGE	*****	*****		*****	100			1/3M	COMP
REPORTD	*****	*****		*****	100				
REQRMNT	*****	*****		*****	*****			*****	
REPORTD								*****	
REQRMNT								*****	
REPORTD								*****	
REQRMNT								*****	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE		DATE	
				TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO. DAY
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY OPERATE AND EVALUATE THIS INFORMATION SUBMITTED. BASED ON MY KNOWLEDGE OF THE PERSON OR PERSONS AND AROUND THE SYSTEM OR THESE PERSONS DIRECTLY RESPONSIBLE FOR OBTAINING THIS INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	
				TYPED OR PRINTED NAME		SIGNATURE	

Municipal Major 07/05/2016
 DEPT. OF ENVIRONMENTAL QUALITY
 (REGIONAL OFFICE)
 Northern Regional Office
 13901 Crown Court
 Woodbridge VA 22193

COMMONWEALTH OF VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL QUALITY
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
 DISCHARGE MONITORING REPORT(DMR)

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)
 Warrenton Town Sewage Treatment Plant
 Town of Warrenton
 Warrenton VA 20186

FACILITY LOCATION
 731 Frost Ave

VA00231172	SPL				
PERMIT NUMBER	DISCHARGE NUMBER				
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
			TO		

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

FROM

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE			
691 ANNUAL AMT SLUDGE DISPOSED BY OTHER MTD	*****	NL	MTRYR	*****	*****		1/3M	CALC
692 ANNUAL AMT SLUDGE INCINERATED	*****	NL	MTRYR	*****	*****		1/3M	CALC
693 ANNUAL SLUDGE PRODUCTION TOTAL	*****	NL	MTRYR	*****	*****		1/3M	CALC
694 ANNUAL AMT SLUDGE LAND APPLIED	*****	NL	MTRYR	*****	*****		1/3M	CALC
696 ANNUAL AMT SLUDGE DISPOSED IN LANDFILL	*****	NL	MTRYR	*****	*****		1/3M	CALC

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE		DATE	
				TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.
	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY IMPACT OF THE PERFORM OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR VIOLATIONS.			PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	CERTIFICATE NO.	YEAR
				TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.
				TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.

This report is required by your VPDES permit and by law. (See, e.g., the Code of Virginia of 1960 §62.1-44.5 and 9 VAC 25-31-50.) Failure to report or failure to report truthfully can result in civil penalties of \$32,500 per violation, per day and felony prosecutions which can carry a 16 year term.

DISCHARGE MONITORING REPORT (DMR) - GENERAL INSTRUCTIONS

1. Complete this form in permanent ink or indelible pencil. The use of 'correction fluid/tape' is not allowed.
2. Be sure to enter the dates for the first and last day of the period covered by the report on the form in the space marked "Monitoring Period".
3. For those parameters where the "permit requirement" spaces have a requirement or limitation, provide data in the "reported" spaces in accordance with your permit.
4. Enter the average and maximum quantities and units in the "reported" spaces in the columns marked "Quantity or Loading".
 $KG/DAY = Concentration (mg/L) \times Flow (MGD) \times 3.785$ $G/D (Grams/Day) = Concentration (mg/L) \times Flow (MGD) \times 3785$
5. Enter maximum, minimum, and/or average concentrations and units in the "reported" spaces in the columns marked "Quality or Concentration".
6. For all parameters enter the number of samples which do not comply with the maximum and/or minimum permit requirements in the "reported" space in the column marked "No. Ex." (Number of Exceedances). If none, enter "0". Do NOT include monthly average violations in this field. Include any Maximum 7-Day Average and Maximum Weekly Average violations in this field. Permittees with continuous pH, or temperature monitoring requirements should consult the permit for what constitutes an exceedance and report accordingly.
7. You are required to sample (at a minimum) according to the Sample Frequencies and Sample Types specified in your permit.
8. Enter the actual frequency of analysis for each parameter (number of times per day, week, month, etc.) in the "reported" space in the column marked "Frequency of Analysis".
9. Enter the actual type of sample (Grab, 8HC, 24HC, etc) collected for each parameter in the "reported" space in the column marked "Sample Type".
10. Enter additional required data or comments in the space marked "additional permit requirements or comments". If additional required data or comments are appended to the DMR, reference appended correspondence in this field.
11. Record the number of bypasses during the month, the total flow in million gallons (MG) and BOD5 in kilograms (KG) in the proper columns in the section marked "Bypasses and Overflows".
12. The operator in responsible charge of the facility should review the form and sign in the space provided. If the plant is required to have a licensed operator or if the operator in responsible charge of the facility is a licensed operator, the operator's signature and certificate number must be reported in the spaces provided.
13. The principal executive officer then reviews the form and must sign in the space provided and provide a telephone number where he/she can be reached. Every page of the DMR must have an original signature.
14. Send the completed form(s) with original signatures to your Department of Environmental Quality Regional Office by the 10th of each month unless otherwise specified in the permit.
15. You are required to retain a copy of the report for your records.
16. Where violations of permit requirements are reported, attach a brief explanation in accordance with the permit requirements describing causes and corrective actions taken. Reference each separate violation by date.
17. If you have any questions, contact the Department of Environmental Quality Regional Office listed on the DMR.



COMMONWEALTH of VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit No. **VA0021172**
Effective Date: **August 1, 2016**
Expiration Date: **July 31, 2021**

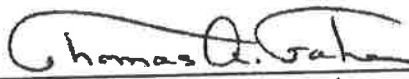
**AUTHORIZATION TO DISCHARGE UNDER THE
VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM
AND THE VIRGINIA STATE WATER CONTROL LAW**

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this permit cover page, Part I – Effluent Limitations and Monitoring Requirements, Part II – Conditions Applicable To All VPDES Permits and Part III – Biosolids Conditions and Requirements, as set forth herein.

Owner Name: **Town of Warrenton**
Facility Name: **Town of Warrenton Wastewater Treatment Plant**
County: **Fauquier**
Facility Location: **731 Frost Avenue, Warrenton, VA 20186**

The owner is authorized to discharge to the following receiving stream:

Stream Name: **Great Run, UT**
River Basin: **Rappahannock River**
River Subbasin: **None**
Section: **4**
Class: **III**
Special Standards: **None**



Thomas A. Faha
Director, Northern Regional Office
Department of Environmental Quality



Date

A. Effluent Limitations and Monitoring Requirements
Outfall 001 – 2.5 MGD Facility

1. There shall be no discharge of floating solids or visible foam in other than trace amounts.
2. This facility has Total Nitrogen and Total Phosphorus calendar year load limits associated with this outfall included in the current Registration List under registration number VAN020028, enforceable under the General VPDES Watershed Permit Regulation for Total Nitrogen and Total Phosphorus Dischargers and Nutrient Trading in the Chesapeake Watershed in Virginia.
3. During the period beginning with the permit's effective date and lasting until the expiration date, the permittee is authorized to discharge from Outfall Number 001. Such discharges shall be limited and monitored by the permittee as specified below.

Parameter	Discharge Limitations				Monitoring Requirements			
	Monthly Average ⁽¹⁾		Weekly Average ⁽¹⁾		Minimum	Maximum ⁽¹⁾	Frequency	Sample Type
Flow ⁽²⁾ (MGD)	NL		NA		NA	NL	Continuous	TIRE
pH	NA		NA		6.0 S.U.	9.0 S.U.	1/D	Grab
Biochemical Oxygen Demand (BOD ₅) ⁽²⁾	10 mg/L	95 kg/day	15 mg/L	140 kg/day	NA	NA	4D/W ⁽³⁾	24H-C
Total Suspended Solids (TSS) ⁽²⁾⁽⁴⁾	10 mg/L	95 kg/day	15 mg/L	140 kg/day	NA	NA	4D/W ⁽³⁾	24H-C
Dissolved Oxygen	NA		NA		6.5 mg/L	NA	1/D	Grab
Total Kjeldahl Nitrogen (TKN)	NL mg/L		NL mg/L		NA	NA	1/W	24H-C
Ammonia, as N	1.4 mg/L		1.7 mg/L		NA	NA	4D/W ⁽³⁾	24H-C
<i>E. coli</i> (Geometric Mean) ⁽⁵⁾	126 n/100 mL		NA		NA	NA	1/D	Grab
NO ₂ + NO ₃ as Nitrogen	NL mg/L		NA		NA	NA	1/W	24H-C
Total Nitrogen ⁽⁶⁾	NL mg/L		NA		NA	NA	1/W	Calculated
Total Nitrogen – Year to Date ⁽⁷⁾	NL mg/L		NA		NA	NA	1/M	Calculated
Total Nitrogen – Calendar Year ⁽⁷⁾	4.0 mg/L		NA		NA	NA	1/YR	Calculated
Total Phosphorus	NL mg/L		NA		NA	NA	1/W	24H-C
Total Phosphorus – Year to Date ⁽⁷⁾	NL mg/L		NA		NA	NA	1/M	Calculated
Total Phosphorus – Calendar Year ⁽⁷⁾	0.3 mg/L		NA		NA	NA	1/YR	Calculated
Chronic Toxicity – <i>C. dubia</i> ⁽⁸⁾	NA		NA		NA	NL TU _c	1/YR	24H-C
Chronic Toxicity – <i>P. promelas</i> ⁽⁸⁾	NA		NA		NA	NL TU _c	1/YR	24H-C

- ⁽¹⁾ See Part I.B.
 - ⁽²⁾ The design flow is 2.5 MGD.
 - ⁽³⁾ At least 85% removal for BOD₅ and TSS shall be attained.
 - ⁽⁴⁾ TSS shall be expressed as two significant figures.
 - ⁽⁵⁾ Between 10 AM and 4 PM.
 - ⁽⁶⁾ Total Nitrogen is the sum of Total Kjeldahl Nitrogen and NO₂+NO₃ Nitrogen and shall be calculated from the results of those tests.
 - ⁽⁷⁾ See Part I.B.3. for nutrient reporting calculations.
 - ⁽⁸⁾ See Part I.D. for toxicity monitoring requirements.
 - ⁽⁹⁾ See Part I.E.10.
- MGD = Million gallons per day.
 NA = Not applicable.
 NL = No limit; monitor and report.
 S.U. = Standard units.
 TIRE = Totalizing, indicating and recording equipment.
- 1/D = Once every day.
 4D/W = Four days per week.
 1/W = Once per week.
 1/M = Once every month.
 1/YR = Once every calendar year.

24H-C = A flow proportional composite sample collected manually or automatically, and discretely or continuously, for the entire discharge of the monitored 24-hour period. Where discrete sampling is employed, the permittee shall collect a minimum of twenty-four (24) aliquots for compositing. Discrete sampling may be flow proportioned either by varying the time interval between each aliquot or the volume of each aliquot. Time composite samples consisting of a minimum of twenty-four (24) grab samples obtained at hourly or smaller intervals may be collected where the permittee demonstrates that the discharge flow rate (gallons per minute) does not vary by 10% or more during the monitored discharge.

Grab = An individual sample collected over a period of time not to exceed 15-minutes.

B. Quantification Levels and Compliance Reporting

1. Quantification Levels

- a. The quantification levels (QL) shall be less than or equal to the following concentrations:

<u>Characteristic</u>	<u>Quantification Level</u>
Total Suspended Solids (TSS)	1.0 mg/L
Biochemical Oxygen Demand-5 day (BOD ₅)	2 mg/L
Ammonia, as N	0.20 mg/L
Total Kjeldahl Nitrogen (TKN)	0.50 mg/L

- b. The QL is defined as the lowest concentration used to calibrate a measurement system in accordance with the procedures published for the method. It is the responsibility of the permittee to ensure that proper quality assurance/quality control (QA/QC) protocols are followed during the sampling and analytical procedures. QA/QC information shall be documented to confirm that appropriate analytical procedures have been used and the required QLs have been attained. The permittee shall use any method in accordance with Part II.A of this permit.

2. Compliance Reporting for Parameters in Part I.A.

- a. **Monthly Average** – Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in Part I.B.1.a. of this permit condition shall be determined as follows: All concentration data below the QL used for the analysis (QL must be less than or equal to the QL listed in Part I.B.1.a above) shall be treated as zero. All concentration data equal to or above the QL used for the analysis shall be treated as reported. An arithmetic average shall be calculated using all reported data for the month, including the defined zeros. This arithmetic average shall be reported on the Discharge Monitoring Report (DMR) as calculated. If all data are below the QL used for the analysis, then the average shall be reported as "< QL". If reporting for quantity is required on the DMR and the reported monthly average concentration is < QL, then report "< QL" for the quantity. Otherwise, use the reported concentration data (including the defined zeros) and flow data for each sample day to determine the daily quantity and report the monthly average of the calculated daily quantities.
- b. **Weekly Average** – Compliance with the weekly average limitations and/or reporting requirements for the parameters listed in Part I.B.1.a. of this permit condition shall be determined as follows: All concentration data below the QL used for the analysis (QL must be less than or equal to the QL listed in Part I.B.1.a above) shall be treated as zero. All concentration data equal to or above the QL used for the analysis shall be treated as reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, collected within each complete calendar week and entirely contained within the reporting month. The maximum value of the weekly averages thus determined shall be reported on the DMR. If all data are below the QL used for the analysis, then the weekly average shall be reported as "< QL". If reporting for quantity is required on the DMR and the reported weekly average concentration is < QL, then report "< QL" for the quantity. Otherwise use the reported concentration data (including the defined zeros) and flow data for each sample day to determine the daily quantity and report the maximum weekly average of the calculated daily quantities.
- c. **Single Datum** – Any single datum required shall be reported as "< QL" if it is less than the QL used in the analysis (QL must be less than or equal to the QL listed in Part I.B.1.a above). Otherwise the numerical value shall be reported.
- d. **Significant Digits** – The permittee shall report at least the same number of significant digits as the permit limit for a given parameter. Regardless of the rounding convention used by the permittee (i.e. 5 always rounding up or to the nearest even number), the permittee shall use the convention consistently and shall ensure that consulting laboratories employed by the permittee use the same convention.

(Remainder of page intentionally left blank)

3. Nutrient Reporting Calculations for Part I.A.

- a. For each calendar month, the DMR shall show the calendar year-to-date average concentration (mg/L) calculated in accordance with the following formulae:

$$MC_{avg}\text{-YTD} = (\sum_{(Jan\text{-current month})} MC_{avg}) \div (\# \text{ of months })$$

where: $MC_{avg}\text{-YTD}$ = calendar year-to-date average concentration (mg/L)
 MC_{avg} = monthly average concentration (mg/L) as reported on DMR

- b. The total nitrogen and phosphorus average concentrations (mg/L) for each calendar year (AC) shall be shown on the December DMR due January 10th of the following year. These values shall be calculated in accordance with the following formulae:

$$AC_{avg} = (\sum_{(Jan\text{-Dec})} MC_{avg}) \div 12$$

where: AC_{avg} = calendar year average concentration (mg/L)
 MC_{avg} = monthly average concentration (mg/L) as reported on DMR

- c. For total phosphorus, all daily concentration data below the quantification level (QL) for the analytical method used should be treated as half the QL. All daily concentration data equal to or above the QL for the analytical method used shall be treated as it is reported.
- d. For total nitrogen (TN), if none of the daily concentration data for the respective species (i.e. TKN, Nitrates/Nitrites) are equal to or above the QL for the respective analytical methods used, the daily TN concentration value reported shall equal one half of the largest QL used for the respective species. If one of the data is equal to or above the QL, the daily TN concentration value shall be treated as that data point is reported. If more than one of the data is above the QL, the daily TN concentration value shall equal the sum of the data points as reported.

C. Pretreatment Requirements

Within 180 days of the effective date of this permit, the permittee shall submit written verification to the Department of Environmental Quality, Northern Regional Office (DEQ-NRO) that the Industrial User Survey (IU Survey) is current and no potential significant industrial users (SIUs) discharge to the POTW.

1. If potential SIUs are not identified, the permittee is not required to implement a pretreatment program. The requirements for program development described below may be suspended by the DEQ.
2. If Categorical Industrial User(s) (CIUs) are identified, or if the permittee or DEQ determines that any IU has potential to adversely affect the operation of the POTW or cause violation(s) of federal, state, or local standards or requirements, the permittee shall develop and submit to DEQ-NRO within one year of written notification by DEQ a pretreatment program for approval. The program shall enable the permittee to control by permit the SIUs discharging wastewater to the treatment works.
3. The approvable pretreatment program submission shall at a minimum contain the following parts:
 - a. The legal authority;
 - b. Program procedures;
 - c. Funding and resources;
 - d. A local limits evaluation and local limits if needed;
 - e. An Enforcement Response Plan, and

f. A list of SIUs.

A SIU is defined as an IU that:

- 1) Has an average flow of 25,000 gallons or more per day of process wastewater to exclude sanitary, non-contact cooling water and boiler blowdown;
 - 2) Contributes a process wastestream which makes up 5.0% or more of the average dry weather hydraulic or organic capacity of the POTW;
 - 3) Is subject to the categorical pretreatment standards; or
 - 4) Has significant impact, either singularly or in combination with other significant dischargers, on the treatment works or the quality of its effluent.
4. Where the permittee is required to develop a pretreatment program, they shall submit to DEQ-NRO an annual report no later than January 31 of each year that includes:
- a. An updated list of the SIUs noting all of the following:
 - 1) Facility address, phone and contact name;
 - 2) An explanation regarding SIUs deleted from the previous year's list;
 - 3) Identification of IUs subject to Categorical Standards and notation of application standard (e.g., metal finishing);
 - 4) Specification of applicable 40 CFR Part(s);
 - 5) Indication of IUs subject to local standards that are more stringent than Categorical Pretreatment Standards;
 - 6) Indication of IUs subject only to local requirements
 - 7) Identification of IUs subject to Categorical Pretreatment Standards that are also subject to reduced reporting requirements under 9VAC25-31-840 E.3.; and
 - 8) Identification of IUs that are non-significant CIUs.
 - b. A summary of the compliance status of each SIU with pretreatment standards and permit requirements;
 - c. A summary of the number and types of SIU sampling and inspections performed by the POTW;
 - d. All information concerning any interference, upset, VPDES permit or water quality standards violations directly attributable to SIUs and enforcement actions taken to alleviate said events;
 - e. A description of all enforcement actions taken against SIUs over the previous 12 months;
 - f. A summary of any changes to the submitted pretreatment program that have not been previously reported to DEQ-NRO;
 - g. A summary of the permits issued to SIUs since the last annual report;
 - h. POTW and self-monitoring results for SIUs determined to be in significant non-compliance during the reporting period;
 - i. Results of the POTW's influent/effluent/sludge sampling that have not been previously submitted to DEQ;

- j. Copies of newspaper publications of all SIUs in significant non-compliance during the reporting period to be due no later than March 31 of each year; and
 - k. The signature of an authorized representative.
5. The DEQ may require the POTW to institute changes to the legal authority regarding SFU permit(s):
- a. If the legal authority does not meet the requirements of the Clean Water Act, Water Control Law or State regulations;
 - b. If problems such as interferences, pass-through, violations of water quality standards or sludge contamination develop or continue; and
 - c. If federal, state or local requirements change.

D. Whole Effluent Toxicity Program Requirements

1. Biological Monitoring

- a). In accordance with the schedule in Part I.D.2. below, the permittee shall conduct annual chronic toxicity tests during this permit term. The permittee shall collect 24-hour flow-proportioned composite samples of final effluent at Outfall 001.

The chronic tests to use are:

Chronic 3-Brood Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia*

Chronic 7-Day Static Renewal Survival and Growth Test using *Pimephales promelas*

These chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions) to determine the "No Observed Effect Concentration" (NOEC) for survival and reproduction or growth. Results which cannot be quantified (i.e. a "less than" NOEC value) are not acceptable and a retest shall be performed. The NOEC, as determined by hypothesis testing, shall be converted to TU_c (Chronic Toxic Units) for Discharge Monitoring Report (DMR) reporting where $TU_c = 100/NOEC$. Report the LC_{50} at 48 hours and the IC_{25} with the NOEC's in the test report.

- b). The permittee may provide additional samples to address data variability. These data shall be reported. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.
- c). The test dilutions shall be able to determine compliance with the following endpoints:
 - Chronic NOEC $\geq 69\%$; equivalent to a $TU_c \leq 1.44$
- d). The test data will be evaluated statistically for reasonable potential at the conclusion of the test period. The data may be evaluated sooner if requested by the permittee or if toxicity has been noted. Should evaluation of the data indicate that a limit is warranted, a WET limit and compliance schedule will be required.
- e). The permit may be modified or revoked and reissued to include pollutant specific limits in lieu of a WET limit should it be demonstrated that toxicity is due to specific parameters. The pollutant specific limitation shall control the toxicity of the effluent.

(Remainder of page intentionally left blank)

2. Reporting Schedule

The permittee shall monitor during the specified period; shall report the results on the DMR; and shall supply one copy of the toxicity test report specified in this Whole Effluent Toxicity Program in accordance with the following schedule:

Period	Sampling Period	DMR/Report Submission Dates
Annual 1	April 1, 2017 – June 30, 2017	January 10, 2018
Annual 2	January 1, 2018 – March 31, 2018	January 10, 2019
Annual 3	July 1, 2019 – September 30, 2019	January 10, 2020
Annual 4	October 1, 2020 – December 31, 2020	January 10, 2021

E. Other Requirements and Special Conditions

1. 95% Capacity Reopener

A written notice and a plan of action for ensuring continued compliance with the terms of this permit shall be submitted to the DEQ-Northern Regional Office (DEQ-NRO) when the monthly average flow influent to the sewage treatment plant reaches 95% of the design capacity authorized in this permit for each month of any three consecutive month period. The written notice shall be submitted within 30 days and the plan of action shall be received at the DEQ-NRO no later than 90 days from the third consecutive month for which the flow reached 95% of the design capacity. The plan shall include the necessary steps and a prompt schedule of implementation for controlling any current or reasonably anticipated problem resulting from high influent flows. Failure to submit an adequate plan in a timely manner shall be deemed a violation of this permit.

2. Indirect Discharges

The permittee shall provide adequate notice to the Department of the following:

- a. Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Section 301 or 306 of Clean Water Act and the State Water Control Law if it were directly discharging those pollutants; and
- b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of this permit.

Adequate notice shall include information on (i) the quality and quantity of effluent introduced into the treatment works, and (ii) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the treatment works.

3. Operations and Maintenance Manual Requirement

The permittee shall maintain a current Operations and Maintenance (O&M) Manual for the treatment works that is in accordance with Virginia Pollutant Discharge Elimination System Regulations, 9VAC25-31 and Sewage Collection and Treatment Regulations, 9VAC25-790.

The O&M Manual and subsequent revisions shall include the manual effective date and meet Part II.K.2 and Part II.K.4 Signatory Requirements of the permit. Any changes in the practices and procedures followed by the permittee shall be documented in the O&M Manual within 90 days of the effective date of the changes. The permittee shall operate the treatment works in accordance with the O&M Manual and shall make the O&M manual available to Department personnel for review during facility inspections. Within 30 days of a request by DEQ, the current O&M Manual shall be submitted to the DEQ-NRO for review and approval.

The O&M Manual shall detail the practices and procedures which will be followed to ensure compliance with the requirements of this permit. This manual shall include, but not necessarily be limited to, the following items, as appropriate:

- a. Permitted outfall locations and techniques to be employed in the collection, preservation and analysis of effluent, storm water and sludge samples;
- b. Procedures for measuring and recording the duration and volume of treated wastewater discharged;
- c. Discussion of Best Management Practices, if applicable;
- d. Procedures for handling, storing and disposing of all wastes, fluids and that will prevent these materials from reaching state waters. List type and quantity of wastes, fluids and pollutants (e.g. chemicals) stored at this facility;
- e. Discussion of treatment works design, treatment works operation, routine preventative maintenance of units within the treatment works, critical spare parts inventory and record keeping;
- f. Plan for the management and/or disposal of waste solids and residues;
- g. Hours of operation and staffing requirements for the plant to ensure effective operation of the treatment works and maintain permit compliance;
- h. List of facility, local and state emergency contacts; and
- i. Procedures for reporting and responding to any spills/overflows/treatment works upsets.

4. Certificate to Construct/Certificate to Operate Requirements

In accordance with *Sewage Collection and Treatment* regulation (9VAC25-790), the permittee shall obtain a Certificate to Construct (CTC) and a Certificate to Operate (CTO) from the Department of Environmental Quality prior to constructing wastewater treatment works and operating the treatment works, respectively. Non-compliance with the CTC or CTO shall be deemed a violation of the permit.

5. Licensed Operator Requirement

The permittee shall employ or contract at least one Class I licensed wastewater works operator for this facility. The license shall be issued in accordance with Title 54.1 of the Code of Virginia and Board for Waterworks and Wastewater Works Operators and Onsite Sewage System Professionals Regulations. The permittee shall notify the Department in writing whenever he is not complying, or has grounds for anticipating he will not comply with this requirement. The notification shall include a statement of reasons and a prompt schedule for achieving compliance.

6. Reliability Class

The permitted treatment works shall meet Reliability Class I.

7. Water Quality Criteria Reopener

Should effluent monitoring indicate the need for any water quality-based limitations, this permit may be modified or alternatively revoked and reissued to incorporate appropriate limitations.

8. E3/E4

The annual average concentration limitations for total nitrogen and/or total phosphorus are suspended during any calendar year in which the facility is considered by DEQ to be a participant in the Virginia Environmental Excellence Program in good standing at either the Exemplary Environmental Enterprise (E3) level or the Extraordinary Environmental Enterprise (E4) level, provided that the following conditions have also been met:

- a. The facility has applied for (or renewed) participation, been accepted, maintained a record of sustained compliance and submitted an annual report according to the program guidelines;
- b. The facility has demonstrated that they have in place a fully implemented environmental management system (EMS) with an alternative compliance method that includes operation of installed nutrient removal technologies to achieve the annual average concentration limitations; and
- c. The E3/E4 designation from DEQ and implementation of the EMS has been in effect for the full calendar year.

The annual average concentration limitations for total nitrogen and/or total phosphorus, as applicable, are not suspended in any calendar year following a year in which the facility failed to achieve the annual average concentration limitations as required by b. above.

9. Nutrient Reopener

This permit may be modified or, alternatively, revoked and reissued:

- a. If any approved wasteload allocation procedure, pursuant to Section 303(d) of the Clean Water Act, imposes wasteload allocations, limits or conditions on the facility that are not consistent with the permit requirements;
- b. To incorporate technology-based effluent concentration limitations for nutrients in conjunction with the installation of nutrient control technology, whether by new construction, expansion or upgrade, or
- c. To incorporate alternative nutrient limitations and/or monitoring requirements, should:
 - 1) the State Water Control Board adopt new nutrient standards for the water body receiving the discharge, including the Chesapeake Bay or its tributaries; or
 - 2) a future water quality regulation or statute require new or alternative nutrient control.

10. Effluent Monitoring Frequency

If the facility permitted herein is issued a Notice of Violation for BOD₅, TSS or ammonia the effluent monitoring frequencies shall become revert back to 5D/W effective upon written notice from DEQ and remain in effect until permit expiration.

No other effluent limitations or monitoring requirements are affected by this special condition.

11. Collection System

The Town of Warrenton shall develop and implement a capacity, management, operation and maintenance (CMOM) program, or its equivalent, designed to maintain and operate Town owned collection system assets in accordance with industry accepted practices relating to sewer inspection, evaluation, repair and that all feasible steps are taken to eliminate excessive infiltration and inflow from the system.

The CMOM, or its equivalent, shall be submitted to DEQ-NRO staff for review and approval on or before 1 August 2017. Upon approval of the program and written notification from DEQ-NRO, an annual report shall be submitted thereafter on or before the 10th of August of every year detailing the previous fiscal year's activities/operations. The annual reports shall, at a minimum, provide the total amount funded to this program, studies/surveys conducted, completed rehabilitation projects and planned/proposed course of actions for the upcoming fiscal year.

12. Total Maximum Daily Load (TMDL) Reopener

This permit shall be modified or alternatively revoked and reissued if any approved wasteload allocation procedure, pursuant to Section 303(d) of the Clean Water Act, imposes wasteload allocations, limits or conditions on the facility that are not consistent with the permit requirements.

CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring

1. Samples and measurements required by this permit shall be taken at the permit designated or approved location and be representative of the monitored activity.
 - a. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.
 - b. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.
 - c. Samples taken shall be analyzed in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.
2. Any pollutant specifically addressed by this permit that is sampled or measured at the permit designated or approved location more frequently than required by this permit shall meet the requirements in A 1 a through c above and the results of this monitoring shall be included in the calculations and reporting required by this permit.
3. Operational or process control samples or measurements shall not be taken at the designated permit sampling or measurement locations. Operational or process control samples or measurements do not need to follow procedures approved under Title 40 Code of Federal Regulations Part 136 or be analyzed in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

B. Records

1. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The individual(s) who performed the sampling or measurements;
 - c. The date(s) and time(s) analyses were performed;
 - d. The individual(s) who performed the analyses;
 - e. The analytical techniques or methods used; and
 - f. The results of such analyses.
2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit.

Monitoring results shall be submitted to:

Department of Environmental Quality – Northern Regional Office (DEQ-NRO)
 13901 Crown Court
 Woodbridge, VA 22193

2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department.
3. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from this discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or
2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II.F.; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II.F., shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;
2. The cause of the discharge;
3. The date on which the discharge occurred;
4. The length of time that the discharge continued;
5. The volume of the discharge;
6. If the discharge is continuing, how long it is expected to continue;
7. If the discharge is continuing, what the expected total volume of the discharge will be; and

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8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse effects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II.I.2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;
2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service some or all of the treatment works; and
4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect state waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:
 - a. Any unanticipated bypass; and
 - b. Any upset which causes a discharge to surface waters.
2. A written report shall be submitted within 5 days and shall contain:
 - a. A description of the noncompliance and its cause;
 - b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
 - c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II.I. if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Parts II, I.1 or I.2., in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II.I.2.

NOTE: The immediate (within 24 hours) reports required in Parts II, G., H. and I. may be made to the Department's Northern Regional Office at (703) 583-3800 or online at <http://www.deq.virginia.gov/Programs/PollutionResponsePreparedness/MakingaReport.aspx>.

For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24-hour telephone service at 1-800-468-8892.

J. Notice of Planned Changes

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
 - a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:
 - 1) After promulgation of standards of performance under Section 306 of Clean Water Act which are applicable to such source; or
 - 2) After proposal of standards of performance in accordance with Section 306 of Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;
 - b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or
 - c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements

1. Applications. All permit applications shall be signed as follows:
 - a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
 - 1) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or
 - 2) The manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
 - b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - c. For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes:
 - 1) The chief executive officer of the agency, or
 - 2) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. Reports, etc. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II.K.1., or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described in Part II.K.1.;
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and
 - c. The written authorization is submitted to the Department.
3. Changes to authorization. If an authorization under Part II.K.2. is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II.K.2. shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.
4. Certification. Any person signing a document under Parts II, K.1. or K.2. shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to Comply

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit

This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

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O. State Law

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II.U.), and "upset" (Part II.V.) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of Solids or Sludges

Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II, U.2. and U.3.
2. Notice
 - a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.
 - b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II.I.
3. Prohibition of bypass.
 - a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:
 - 1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

- 2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - 3) The permittee submitted notices as required under Part II.U.2.
- b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II.U.3.a.

V. Upset

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II.V.2. are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.
2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - a. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - b. The permitted facility was at the time being properly operated;
 - c. The permittee submitted notice of the upset as required in Part II.I.; and
 - d. The permittee complied with any remedial measures required under Part II.S.
3. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of permits

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II.Y.2., a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.
2. As an alternative to transfers under Part II.Y.1., this permit may be automatically transferred to a new permittee if:
 - a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;
 - b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
 - c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II.Y.2.b.

Z. Severability

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

BIOSOLIDS CONDITIONS AND REQUIREMENTS

A. Biosolids Limitations and Monitoring Requirements

During the period beginning with the permit's effective date and lasting until the permit expiration date, the permittee is authorized to manage biosolids in accordance with 9VAC25-31-420 through 720 and 9VAC25-32-303 through 358, the limitations, conditions and requirements set forth in this permit and the approved Biosolids Management Plan.

All biosolids samples shall be collected and analyzed in accordance with Title 40 of the Code of Federal Regulations, Part 503 and 136, and the approved Biosolids Management Plan. The permittee shall ensure that all biosolids generated under authority of this permit and distributed for the purpose of land application, blending or further treatment are monitored in accordance with the monitoring requirements as specified herein.

Class B Biosolids

1. Biosolids Annual Production Monitoring (SP1)

The permittee shall report the annual total amount of biosolids produced (in dry metric tons) and annual amount of Class B biosolids (in dry metric tons) distributed for land application.

Data shall be reported on the Discharge Monitoring Report (DMR) for discharge number SP1.

2. Biosolids Chemical Limitations and Monitoring Requirement (S01)

Pollutants in Class B biosolids that are generated and provided to a land applier under the authority of this permit shall be monitored and limited as specified below. Biosolids shall not be provided for land application if the concentration of any pollutant in the biosolids exceeds the ceiling limitation of that pollutant.

Biosolids Characteristic ⁽¹⁾	PC / CPLR Limitations ⁽¹⁾	Ceiling Limitations ⁽¹⁾	Monitoring Requirements	
	Monthly Average ⁽²⁾	Concentration Maximum ⁽²⁾	Frequency	Sample Type
Percent Solids (%)	NL	NA	1/3M	Composite
Arsenic, Sludge	41 mg/kg	75 mg/kg	1/3M	Composite
Cadmium, Sludge	39 mg/kg	85 mg/kg	1/3M	Composite
Copper, Sludge	1500 mg/kg	4300 mg/kg	1/3M	Composite
Lead, Sludge	300 mg/kg	840 mg/kg	1/3M	Composite
Mercury, Sludge	17 mg/kg	57 mg/kg	1/3M	Composite
Molybdenum, Sludge	NL	75 mg/kg	1/3M	Composite
Nickel, Sludge	420 mg/kg	420 mg/kg	1/3M	Composite
Selenium, Sludge	100 mg/kg	100 mg/kg	1/3M	Composite
Zinc, Sludge	2800 mg/kg	7500 mg/kg	1/3M	Composite

NA = Not applicable.

NL = No limit; monitor and report.

1/3M = Once every calendar quarter.

mg/kg = Milligrams per kilogram, dry weight.

⁽¹⁾ All parameters are subject to pollutant concentrations (PC), cumulative pollutant loading rates (CPLR), and ceiling limits. PC biosolids contain the constituents identified above at concentrations below the monthly average specified herein. CPLR biosolids contain the constituents identified above at concentrations above the monthly average and each sample must be below the maximum concentration specified herein.

⁽²⁾ All limits and criteria are expressed on a dry weight basis.

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3. Pathogen Reduction and Vector Attraction Reduction (VAR) Requirements (S01)

Biosolids generated and provided to a land applier under this permit shall be treated to meet a Class B Pathogen Reduction Alternative and one VAR Option 1 - 8 prior to delivery to the land application site. The Class B Biosolids shall be monitored and limited in accordance with the treatment options selected and used by the generator, as identified in the table below.

Treatment Option			
Pathogen Reduction Alternative	Process to Significantly Reduce Pathogens (PSRP) Option	Class B Pathogen Reduction & Vector Attraction Reduction (VAR) Treatment and Standards	Monitoring Requirements
2	3	PSRP: Anaerobic digestion for a mean cell residence time between 15 days at 35° C – 55° C up to 60 days at 20° C. (9VAC25-31-710.D.3.)	1/3M ^{(1) (2)}
VAR Option 1		The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%, calculated according to the method in 9VAC25-31-490.B.8.	1/3M ^{(1) (2) (3)}

1/3M = Once every calendar quarter.

- ⁽¹⁾ Between sampling events, operating records must demonstrate that the Wastewater Treatment Plant (WWTP) is operating at a performance level known to meet pathogen reduction and VAR standards.
- ⁽²⁾ Process monitoring must be sufficient to demonstrate compliance with PSRP and VAR treatment requirements.
- ⁽³⁾ If the selected VAR option 1- 8 is not met, the permittee shall provide notification to the land applier at the time the biosolids are delivered that the biosolids did not meet VAR at the WWTP and that the biosolids must be injected below the surface of the land (9VAC25-31-720.B.9) or incorporated into the soil within 6 hours after application (9VAC25-31-720.B.10). The Permittee shall obtain verification from the land applier that injection or incorporation occurred.

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B. Biosolids Management and Reporting Requirements

1. Approved Biosolids Source Requirement

Only biosolids from a source that has been approved by the DEQ, as identified on the DEQ's *Sources of Biosolids, Industrial Sludges, WTP Residuals* list and treated to meet metals limits, pathogen reduction and VAR standards as set forth in Part III of this permit, shall be given to any person for the purpose of blending or land application.

2. Biosolids Monitoring Frequency and Reporting Requirements

a. Monitoring Frequency

The monitoring frequency shall be once per calendar quarter (1/3M). The monitoring frequency may be increased during this permit term upon written notification by DEQ if deemed necessary.

b. Annual Report

The permittee shall submit an Annual Report not later than February 19th of each year to the DEQ-Northern Regional Office. Each report is for the previous calendar year's activity. If no biosolids were generated and provided to a land applier under this permit during the reporting year, a report shall be submitted stating that no biosolids were generated or delivered during the year.

The report shall include at minimum:

- 1) Part III.A.1. Sewage Sludge Annual Production Monitoring;
- 2) Biosolids Monitoring Data:
 - a) Part III.A.2. Biosolids – Metals Limitations;
 - b) Part III.A.3. Biosolids – Pathogen Reduction and Vector Attraction Reduction (VAR) Requirements; and
 - c) Supporting documentation, including laboratory chain of custody forms and certificates of analyses, shall be submitted with the report;
- 3) A summary of biosolids disposal contracts, if any, currently held with other generators, as well as any other biosolids or sludges currently being handled through subcontracts or other agreements. Include biosolids or sludges given to other generators, contractors or land filled and biosolids or sludges accepted from other generators for treatment or land application;
- 4) Identify other methods used to dispose of or use biosolids or sludge produced during the previous calendar year. Report the annual total amount of biosolids or sludge (in dry metric tons) disposed of or used by each method identified; and
- 5) The annual report shall be certified and signed in accordance with Part II.K.

3. Record Keeping

The permittee is required to retain the following information for at least five years:

- a. The concentrations of each pollutant in Parts III.A.2.;
- b. A description of how the pathogen reduction requirements in Parts III.A.3. are met;
- c. A description of how the vector attraction reduction requirements in Parts III.A.3. are met;
- d. A description of how the management practices specified in the approved Biosolids Management Plan and this permit are met;

- e. The Notice and Necessary Information required in Part III.B.4; and
- f. The following certification statement:

"I certify, under penalty of law, that the information that will be used to determine compliance with the Class B pathogen requirements in 9VAC25-31-710.B.6 and the vector attraction reduction requirements in 9VAC25-31-720.B.6 was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment".

4. Notice and Necessary Information (NANI)

A NANI shall be provided to any person to whom biosolids are provided for the purpose of further treatment, blending or land application. The NANI shall be provided at the time the biosolids are provided if available, but no later than 45 days after the last day of the month in which biosolids were provided. The NANI shall represent the most recent monitoring period.

The NANI shall include at a minimum:

- a. A statement that Class B pathogen requirements in 9VAC25-31-710.A – B were met and the alternative used;
- b. A statement that one of the VAR requirements in 9VAC25-31-720.B.1 through B.8 was met and the alternative used; or
- c. A statement that one of the VAR requirements in 9VAC25-31-720.B.1 through B.8 was not met and incorporation or injection was required;
- d. The notice(s) provided to the land applier when biosolids provided did not meet VAR and required incorporation or injection;
- e. The concentration of total nitrogen (as N on a dry weight basis) of the biosolids; and
- f. The following certification statement:

"I certify, under penalty of law, that the information that will be used to determine compliance with the Class B pathogen requirements in 9VAC25-31-710.B and the VAR requirement in 9VAC25-31-720.B.6 was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification, including the possibility of fine and imprisonment".

5. Biosolids Management Plan (BSMP)

- a. The permittee shall conduct all biosolids/sewage sludge use or disposal activities in accordance with the Biosolids Management Plan approved with the issuance of this permit. The permittee shall maintain the BSMP which consists of the following components:
 - 1) The materials developed and submitted at the time of permit application or permit modification in accordance with 9VAC25-31-100.Q;
 - 2) The Operations and Maintenance (O&M) Manual (sections regarding solids handling and biosolids production and management, etc); and
 - 3) The Odor Control Plan (OCP).
- b. Odor Control Plan (OCP) Requirement – If an OCP is not on file at DEQ, an OCP shall be submitted to DEQ within 90 days of the effective date of this permit.

The OCP shall include at a minimum:

- 1) Methods used to minimize odor in producing biosolids;
- 2) Methods used to identify malodorous biosolids before delivery to the land applier (at the generating facility);
- 3) Methods used to identify and abate malodorous biosolids if delivered to the field, prior to land application;
and
- 4) Methods used to abate malodor from biosolids if land applied.

- c. The BSMP and all of its components shall be incorporated by reference and is an enforceable part of this permit.
- d. Any proposed changes in the biosolids/sewage sludge use or disposal practices or procedures followed by the permittee shall be documented and submitted for DEQ-Northern Regional Office (DEQ-NRO) approval 90 days prior to the effective date of the changes. Upon approval, the revised Biosolids Management Plan becomes an enforceable part of the permit. The permit may be modified or alternatively revoked and reissued to incorporate limitations or conditions necessitated by substantive changes in biosolids/sewage sludge use or disposal practices.

6. Biosolids/Sludge Reopener

The Board may promptly modify or revoke and reissue this permit if any applicable standard for biosolids and/or sewage sludge use or disposal promulgated under Section 405(d) of the Clean Water Act is more stringent than any requirements for biosolids/sludge use or disposal in this permit, or controls a pollutant or practice not limited within this permit.

7. Biosolids Use and Disposal

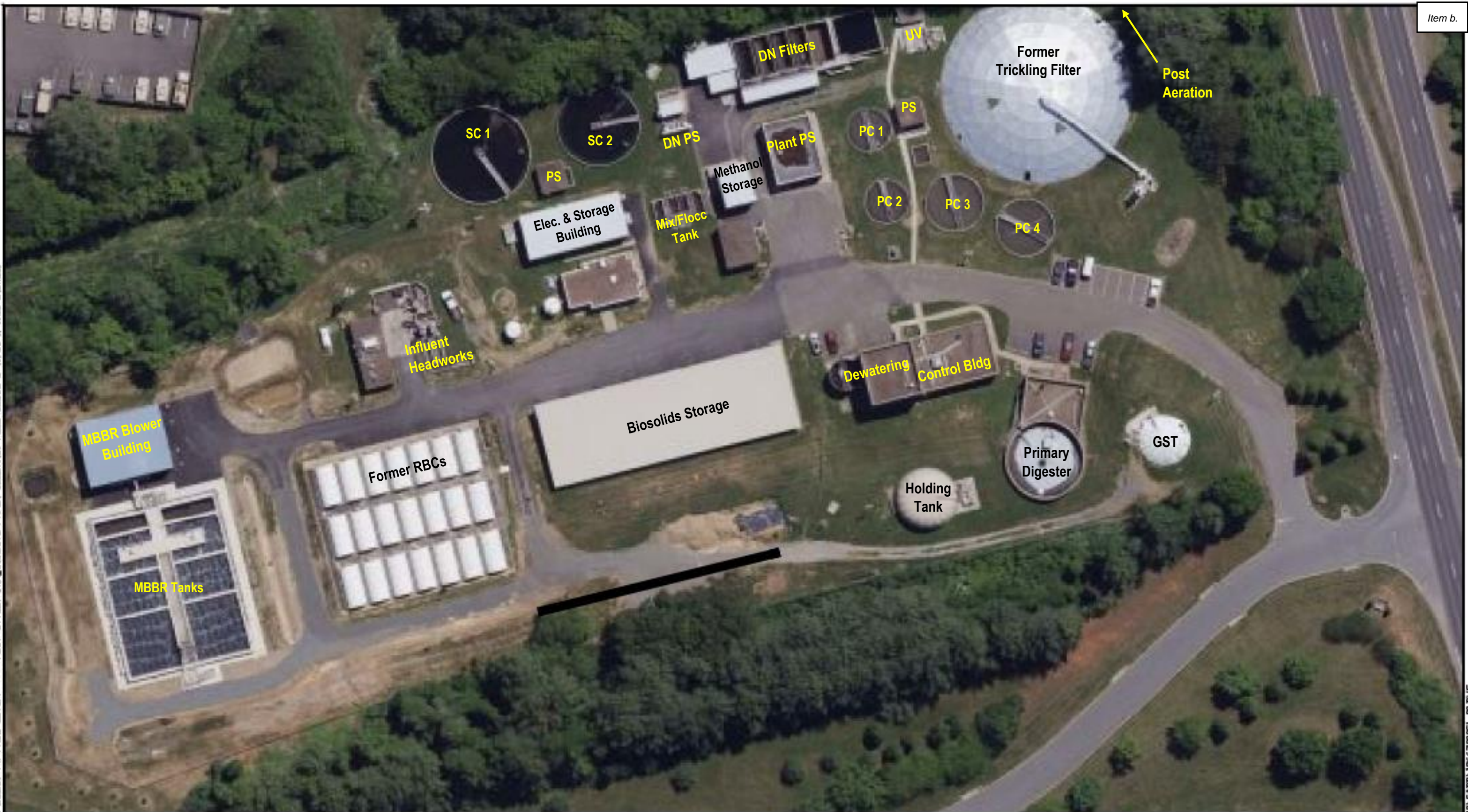
The permittee shall conduct all biosolids use or disposal activities in accordance with the Biosolids Management Plan approved with the issuance of this permit. Any proposed changes in the biosolids use or disposal practices or procedures followed by the permittee shall be documented and submitted for DEQ-Northern Regional Office (DEQ-NRO) approval 90 days prior to the effective date of the changes. Upon approval, the revised Biosolids Management Plan shall be incorporated by reference and becomes an enforceable part of the permit. The permit may be modified or alternatively revoked and reissued to incorporate limitations or conditions necessitated by substantive changes in biosolids use or disposal practices.

Appendix B

Existing Site Plan (aerial and topo)

Item b.

PLOT DATE: 12/6/2021 1:38:37 PM PAGE SETUP --- PLOT STYLE: WRA_2006.ctb PAPER SIZE: ANSI FULL BLEED B (17.00 X 31.00 INCHES)

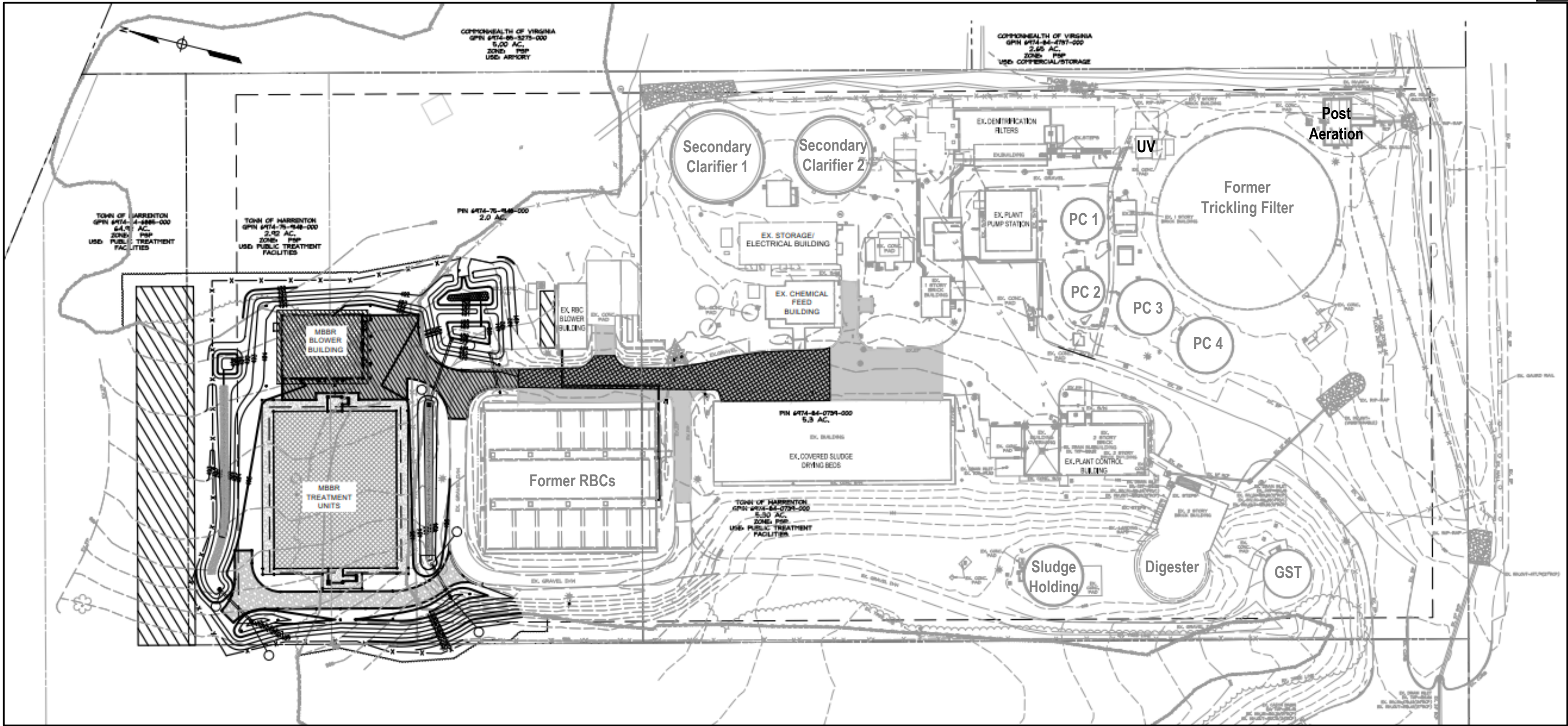


TOWN OF WARRENTON

WWTP UPGRADE AND EXPANSION

EXISTING SITE PLAN
 SCALE:
 DATE: DECEMBER 2021

FILENAME: N:\18667-000\CADD\186670001-00.DWG



TOWN OF WARRENTON

WWTP UPGRADE AND EXPANSION

EXISTING SITE PLAN
 SCALE:
 DATE: DECEMBER 2021

Appendix C

Wastewater Sampling Data (2016 and 2006 data)

WARRENTON WWTP - WASTEWATER SAMPLING DATA (MARCH 2016)

Plant Influent

Date	Rainfall (inches)	Flow	Flow	WW	BOD ₅ (mg/L)	TSS (mg/L)	Ammonia (mg/L)	TKN (mg/L)	TP (mg/L)	Alkalinity
		Avg (MGD)	Max (MGD)	Temp (C)						CaCO ₃ (mg/L)
2/29/2016	0	2.36	3.8	14.6	123	61	15	24	3.1	140
3/1/2016	0	2.23	3.6	13.1	134	66				
3/2/2016	0	2.14	2.9	14.2	295	137	17	24	2.2	
3/3/2016	0	2.17	3.2	13.3	191	105				
3/4/2016	0	2.10	2.9	13.4	125	45	21	29	3.2	152
3/5/2016	0	1.98	3.7	13.6	256	71				
3/6/2016	0	2.02	3.8	14.0	217	71	20	27	3.4	
3/7/2016	0	2.08	3.6	14.8	190	86				
3/8/2016	0	2.00	3.6	15.1	184	130	24	31	4.0	142
3/9/2016	0	1.94	3.5	15.6	181	62				
3/10/2016	0	1.94	3.7	17.1	250	144	21	34	4.4	
3/11/2016	0	1.81	3.3	17.1	158	81				
3/12/2016	0	1.80	3.2	16.5	204	89	15	31	4.1	144
3/13/2016	0.4	1.76	3.5	15.4	191	86				
Average		2.02	3.5	14.8	193	88	19	29	3.5	145

BFP Filtrate Holding Tank (ammonia sidestream)

Date	BOD ₅ (mg/L)	TSS (mg/L)	Ammonia (mg/L)	TKN (mg/L)
2/29/2016	25	33	287	307
3/4/2016	36	44	276	298
3/8/2016	49	823	336	412
3/12/2016	32	67	276	316
Average	36	242	294	333

Primary Influent (influent + filtrate)

Ammonia (mg/L)	TKN (mg/L)
23.2	33.3

Avg side stream flow (gpm): 20

WARRENTON WWTP - WASTEWATER SAMPLING DATA (MARCH 2016)

Influent ammonia sampling (plant lab analysis)

Date	Plant Lab*) NH3-N (mg/L)	Flow Avg (MGD)	Flow Max (MGD)	ESS Lab **) NH3-N (mg/L)
2/22/2016	18.3	2.32	3.5	
2/23/2016	18.2	2.51	3.6	
2/24/2016	13.0	3.21	6.0	
2/25/2016	11.0	3.32	4.2	
2/26/2016	11.1	2.90	3.3	
2/27/2016	13.1	2.44	3.5	
2/28/2016	11.0	2.36	3.8	
2/29/2016	18.4	2.36	3.8	15
3/1/2016	17.6	2.23	3.6	
3/2/2016	19.6	2.14	2.9	17
3/3/2016	18.6	2.17	3.2	
3/4/2016	20.3	2.10	2.9	21
3/5/2016	23.4	1.98	3.7	
3/6/2016	18.2	2.02	3.8	20
3/7/2016	18.6	2.08	3.6	
3/8/2016	17.2	2.00	3.6	24
3/9/2016	23.5	1.94	3.5	
3/10/2016	24.7	1.94	3.7	21
3/11/2016	27.4	1.81	3.3	
3/12/2016	15.7	1.80	3.2	15
3/13/2016	14.0	1.76	3.5	

High flow period

*) Grab samples. Analysis completed daily at 5 PM.

**) Composite sample based on three (3) daily grab samples

**Town of Warrenton WWTP
Influent Wastewater Sampling Plan – 2016**

	Plant Influent ¹							BFP Filtrate Tank Ammonia Sidestream ²			
	BOD ₅	TSS	TKN	NH ₃	TP	Alka ³	pH	BOD ₅	TSS	TKN	NH ₃
Day Date											
1	X	X	X	X	X	X	X	X	X	X	X
2	X	X									
3	X	X	X		X						
4	X	X									
5	X	X	X	X	X	X	X	X	X	X	X
6	X	X									
7	X	X	X		X						
8	X	X									
9	X	X	X	X	X	X	X	X	X	X	X
10	X	X									
11	X	X	X		X						
12	X	X									
13	X	X	X	X	X	X	X	X	X	X	X
14	X	X									
Total Samples	14	14	7	4	7	43	4	4	4	4	4

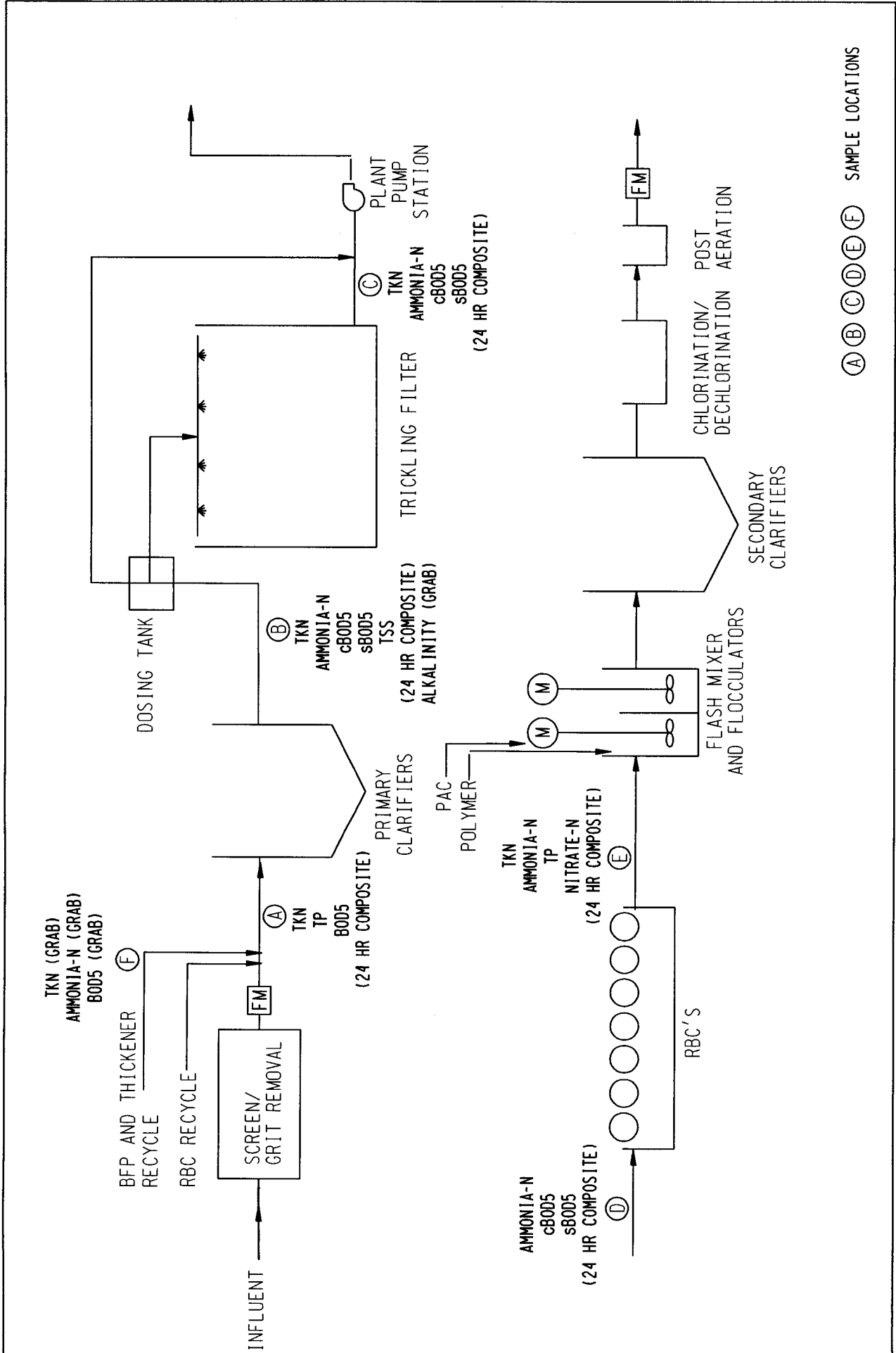
Notes:

1. Influent Sampling: One composite sample for analysis, based on three (3) discrete manual grab samples collected at 8AM, 4PM and 10PM. Influent samples shall be collected after the screen and grit removal, but before the influent flow meter (i.e. upstream of the location where the RBC recycle flows enters).
2. Holding Tank Sampling: One manual grab sample (no composite needed) when the tank is in draining mode.
3. Alkalinity measurements can be performed in-house at the WWTP lab.



Warrenton WWTP - Supplemental WW Sampling/Characterization (March 2006)																
Date March 2006	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Units	Average
Centrate TKN	215	206	183	173	174	156	145	202	197	183	181	193	187	192	mg/L	185
Centrate NH3-N	180	160	120	120	110	130	120	110	110	120	110	100	100	120	mg/L	122
Centrate BOD	LE	LE	LE	LE	LE	LE	LE	LE	LE	22	7	4	6	7	mg/L	9
Primary Influent TKN	25	29.2	29.8	30.9	25.3	28.1	29	30.3	28.7	30.5	32.7	40	28.2	30.5	mg/L	30
Primary Influent TP	5.44	5.47	6.11	7.8	5.53	6.11	7.15	7.28	6.25	6.12	7.63	6.46	6.73	6.73	mg/L	6.5
Primary Influent BOD	182	157	92	LE	200	50	250	99	105	117	172	155	159	168	mg/L	147
Primary Effluent TKN	23.7	24.5	25.3	22.8	23.6	24.2	24.7	25	25.3	25.4	24	27.4	24	24.8	mg/L	25
Primary Effluent NH3-N	19	18	18	17	17	18	16	15	16	17	15	15	16	18	mg/L	17
Primary Effluent cBOD	111	126	91	116	117	113	119	117	106	121	119	119	81	101	mg/L	111
Primary Effluent sBOD	34	48	40	46	44	49	46	67	48	44	34	52	45	60	mg/L	47
Primary Effluent TSS	95	69	79	93	79	100	95	89	82	92	88	87	89	80	mg/L	87
Primary Effluent ALK	142	128	114	142	174	180	268	130	190	200	140	136	160	160	mg/L	162
Trickling Filter Effluent TKN	11.5	12.5	11.1	11.4	12.1	12.4	12.6	14.6	13.8	13.8	12.7	12.4	18	13.3	mg/L	13.0
Trickling Filter Effluent NH3-N	8.6	8.8	8.3	7	6.7	8	7.3	7.5	8	7.8	6.8	6.5	7.1	8	mg/L	7.6
Trickling Filter Effluent cBOD	15	15	11	24	36	16	23	47	17	19	19	17	13	13	mg/L	20
Trickling Filter Effluent sBOD	4	6	3	< 3	3	< 4	5	18	< 3	< 3	< 4	< 4	< 4	< 4	mg/L	6.5
RBC Influent NH3-N	10	10	10	8.8	7.6	8.9	9.2	8.6	8.8	8.6	7.6	7.8	7.1	8.2	mg/L	8.7
RBC Influent cBOD	24	23	7	25	19	20	25	36	11	21	22	19	11	15	mg/L	20
RBC Influent sBOD	4	< 3	3	< 3	< 3	< 4	< 3	10	< 3	< 3	< 4	< 4	< 4	< 4	mg/L	5.7
RBC Effluent TKN	5	5.96	5.73	6.74	6.46	5.34	6.18	8.15	5.62	8.17	7.05	6.77	7.05	7.31	mg/L	6.5
RBC Effluent NH3-N	0.17	0.16	0.16	0.17	0.15	0.12	0.16	0.15	0.2	0.21	0.14	0.11	0.11	0.1	mg/L	0.2
RBC Effluent TP	4.5	4.95	5.18	4.57	4.88	4.82	5.14	4.95	5.36	5.58	5.38	5.36	4.9	5.1	mg/L	5.0
RBC Effluent Nitrate-N	0.67	15.8	15.9	14.1	0.67	12.7	14.8	15.4	15.4	16.7	15.8	13.9	13.8	16.7	mg/L	13.0
LE Lab Error																





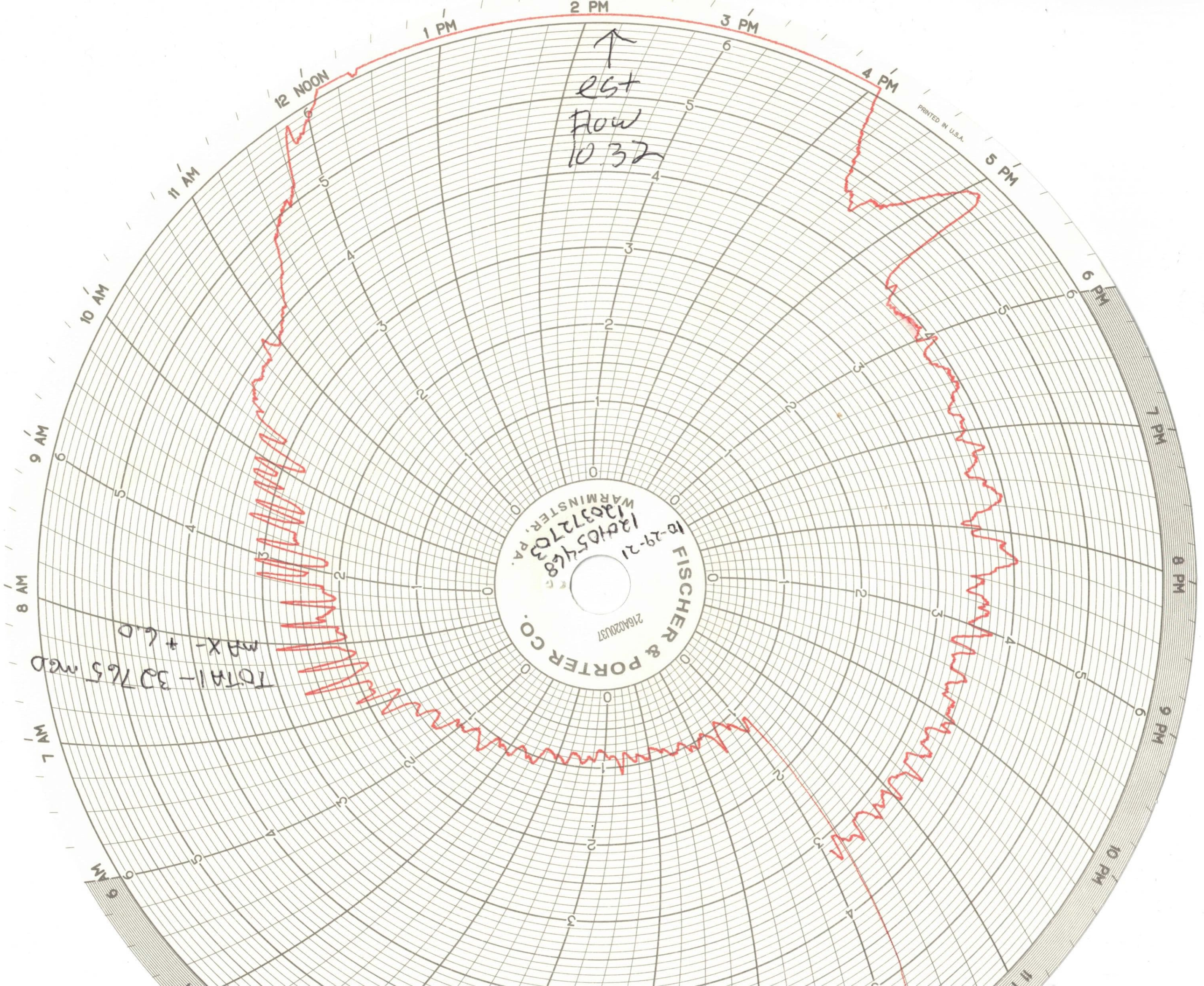
WARRENTON WASTEWATER TREATMENT PLANT	W.O.:	18245	DATE:	FEB 2006
	SCALE:	NONE	DWG. NO.:	
	FILE NAME: n:\18245\CADD\Process\Process schemat Thu Feb 16 08:54:38 2006			
SAMPLING PLAN				
Item b.				

WR&A
 REQUARDT AND ASSOCIATES, LLP
 1 SOUTH CAROLINE STREET
 BALTIMORE, MARYLAND
 410 - 235 - 3450

550

Appendix D

Flow Chart – October 29, 2021

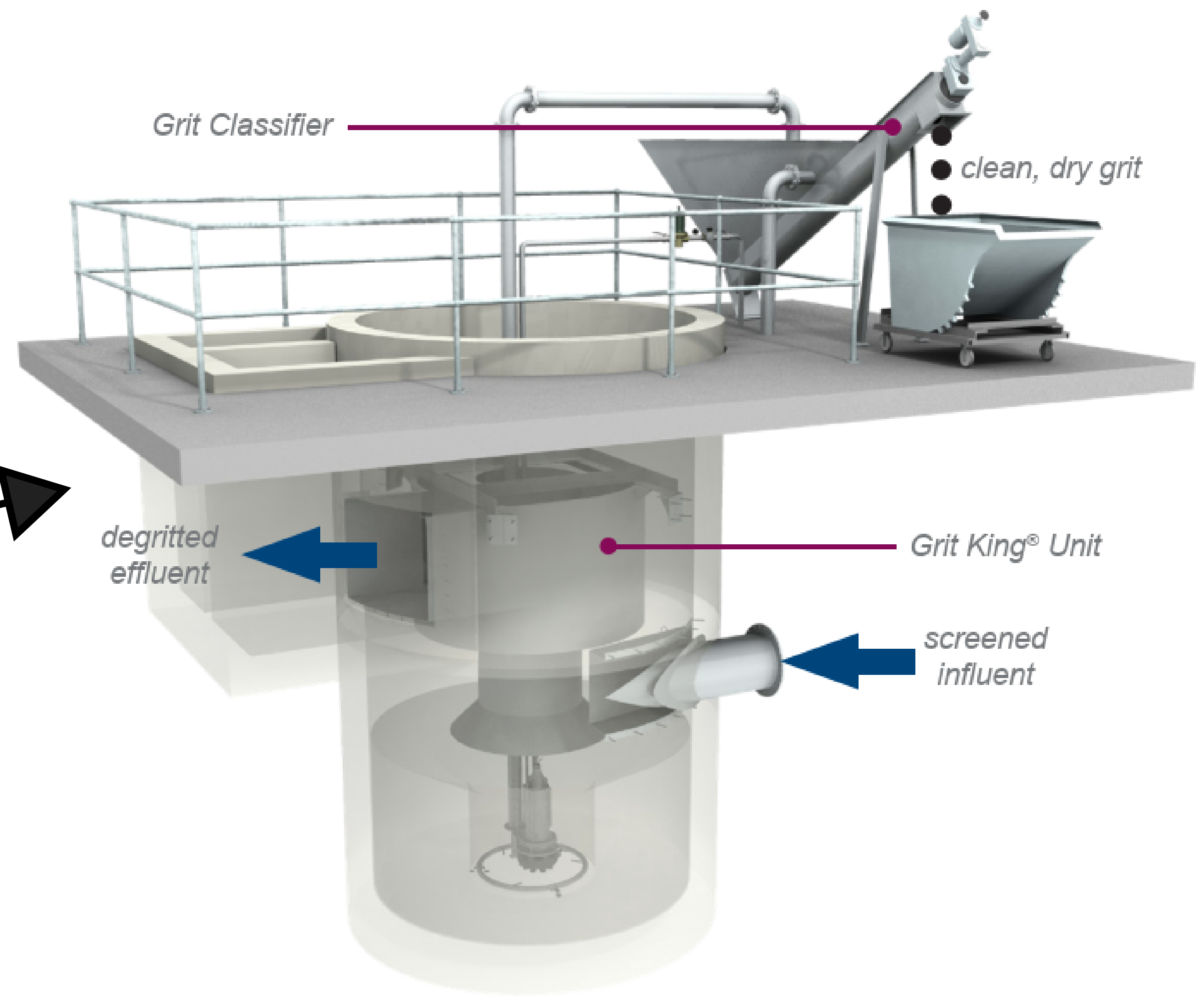
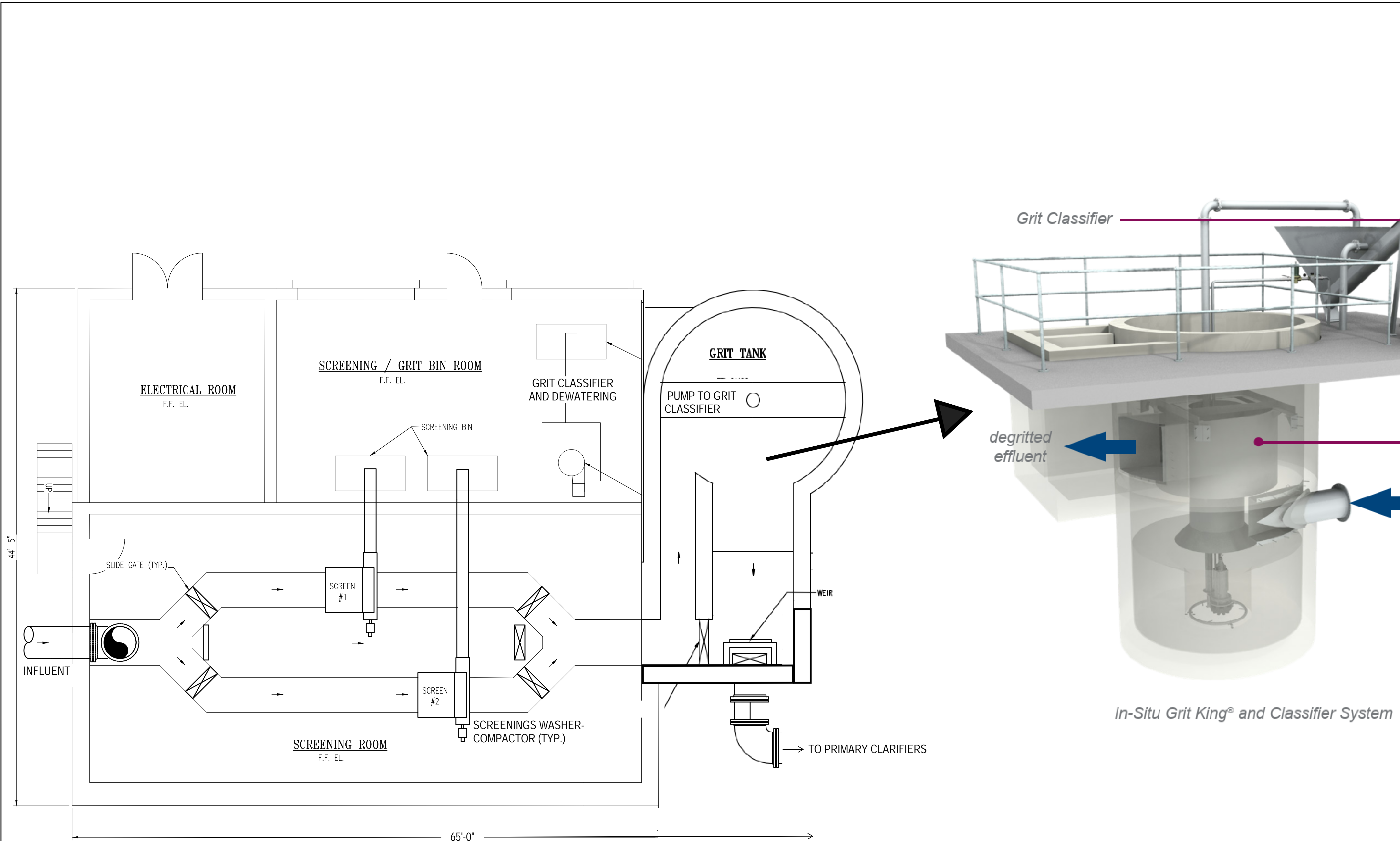


Total GALS. - 22,115,700

MONTH	INITIALS	YEAR	TOTALIZER READING	FLOW PUMPED	PUMP NUMBER	COMMINUTOR	POND LEVEL
	Oct	2021	51007300				
1	RL		51745800	738500	3,1,2 ^{1,2,3}	on	E
2	MT		52623000	877,200	1,2,3	"	"
3	MI		53516800	893900	1,2,3	"	"
4	DP		53891800	374900	1,2,3	on	E
5	RL		54626600	734800	1,2,3	on	E
6	DP		55245300	618700	1,2,3	on	E
7	RL		55935800	690500	1,2,3	on	E
8	DP		56669800	734000	1,2,3	on	E
9	RS		57273300	603500	1,2,3	"	"
10	RS		57972600	699300	1,2,3	"	"
11	DP		58829900	857300	1,2,3	on	E
12	RL		59554400	724500	1,2,3	on	E
13	DP		60304000	749600	1,2,3	on	E
14	RL		60992700	688700	1,2,3	on	E
15	DP		61643600	650900	3,2,1	on	R
16	RL		62466500	1022900	3,2,1	on	E
17	RL		63314400	647900	3,2,1	on	E
18	DP		63879600	565200	3,2,1	on	E
19	JHG		64581400	701800	3,2,1	"	"
20	DP		65282900	701500	3,2,1	on	E
21	JHG		66025700	742800	1,3,2	"	"
22	DP		66640400	614700	1,3,2	on	E
23	MI		67483600	843200	1,3,2	"	"
24	MI		68191900	708300	1,3,2	"	"
25	DP		68713700	521800	1,3,2	on	E
26	RS		696051100	937400	1,3,2	"	"
27	RL		70296300	645200	1,3,2	"	"
28	RL		70959800	662600	1,3,2	"	"
29	SV		72257600	1297800	3,1,2	on	2ft
30	JT		72927600	670,000	3,1,2	on	Eqo
31	RS		73861500	933900	3,1,2	"	empty
TOTAL							

Appendix E

Headworks Facility – Concept Plan
Influent Screen
Washer-Compactor
Vortex Grit Removal



In-Situ Grit King® and Classifier System

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TOWN OF WARRENTON

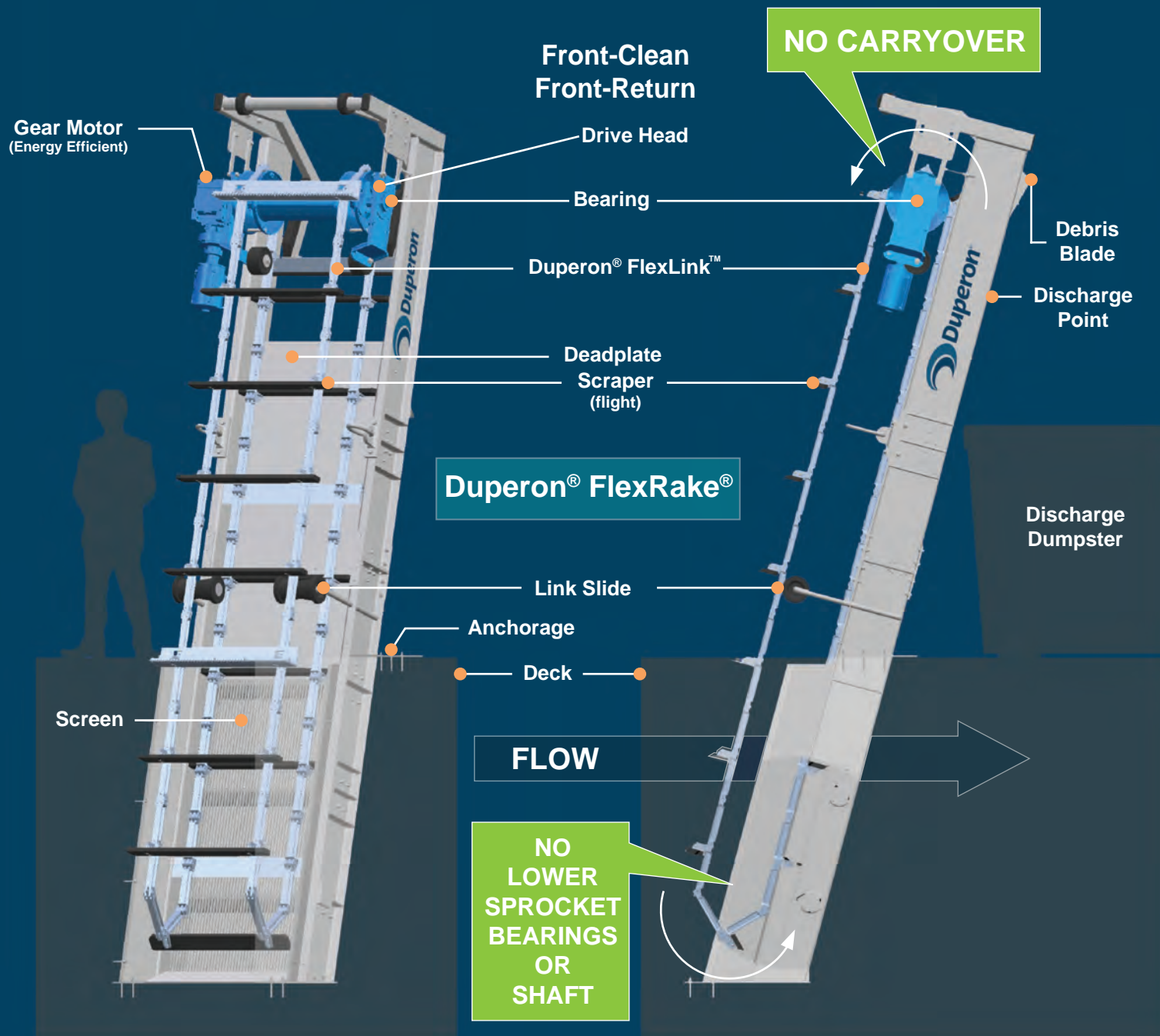
WWTP UPGRADE AND EXPANSION

HEADWORKS FACILITY
 SCALE:
 DATE: DECEMBER 2021

Wastewater Applications

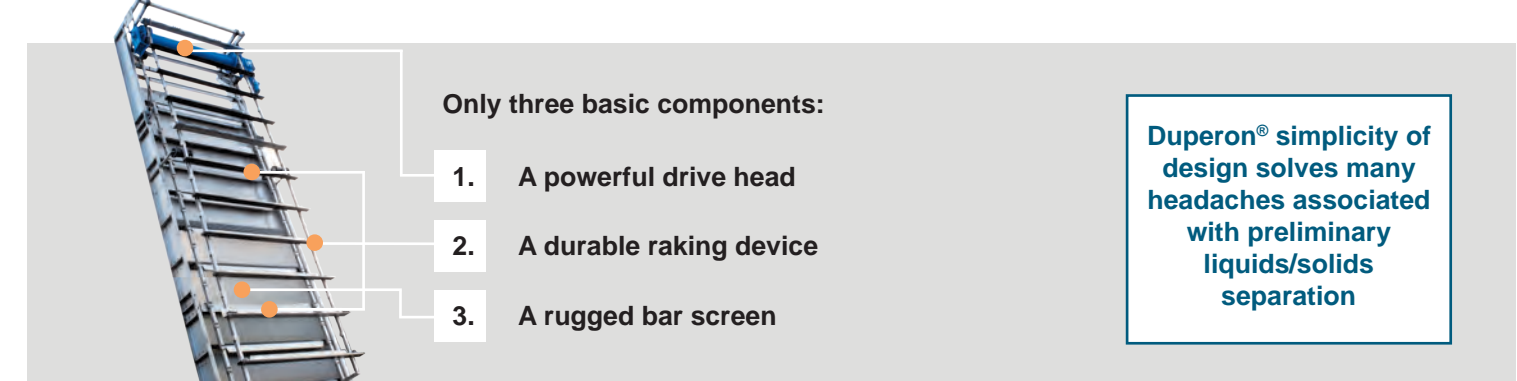


The Duperon® FlexRake®



Shown without enclosure

The Duperon® FlexRake®



Only three basic components:

1. A powerful drive head
2. A durable raking device
3. A rugged bar screen







Duperon® simplicity of design solves many headaches associated with preliminary liquids/solids separation

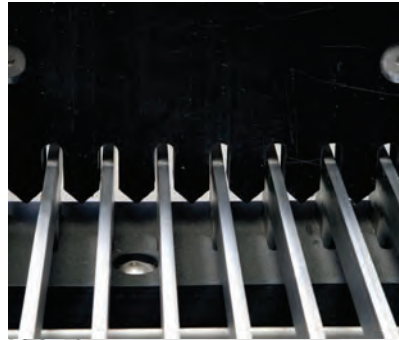
ENGINEERED FOR DURABLE, RELIABLE OPERATION

The achievement of mechanical simplicity requires the design of one part doing more. The simplicity of the Duperon® FlexRake® is possible through the multi-functioning action of one part: the FlexLink™. This innovative design allows the link to function as a frame, lower sprocket, and connection point for scrapers, and be driven by a single sprocket. The rugged bar screen has a frame which guides the chain and relocates it in the screen. Bottom line: simplicity works when it achieves a simple cleaning mechanism with trouble-free longevity.

The design of the Duperon® FlexRake® solves many of the headaches associated with liquids/solids separation equipment: complex gear mechanisms and controls; high maintenance components subject to regular lubrication, wear or fouling; confined space entries; reversal of mass in systems that must travel in one direction and then auto-reverse; carryover; shutdown due to unexpected debris volumes or conditions; inability to remove accumulation at the bottom of the channel...

How the Duperon® FlexRake® works...

<p>1.</p> 	<p>The FlexLink™ articulates to a 90 degree angle, closing on the drive pin. Once closed, the sprocket drives the link system forward.</p>	<p>2.</p> 	<p>As it leaves the drive sprocket, the FlexLink™ locks into a solid bar, forming its own frame. (It works similarly to a knee or elbow.)</p>	<p>3.</p> 	<p>As the FlexLink™ chain and attached scrapers reach the bottom of the screen, the FlexLink™ forms its own rotating framework.</p>
<p>4.</p> 	<p>Once the links turn to travel slowly up the screen, they are engineered to allow clearance around the pin and water lubrication, allowing stainless on stainless movement without gouging or wear.</p>	<p>5.</p> 	<p>Industry-exclusive Thru-Bar™ technology features scrapers designed to clean 3 sides of the bar, as well as horizontal cross members.</p>	<p>6.</p> 	<p>Multiple scrapers placed every 21 inches continuously rake the bar screen. With screen head-loss minimized, some sites report a 3x greater capture rate than with their previous machines.</p>



DEBRIS ACCUMULATION ELIMINATED

The Duperon® FlexRake® wastewater product line offers industry-exclusive Thru-Bar™ Technology with a scraper designed to clean 3 sides of the bar – as well as cross support members – so debris simply cannot accumulate. Assembly/disassembly is simple... just 4 bolts, from the deck. This Duperon® technology leaves nothing to chance.



ELIMINATES FOULING POINTS

The Duperon® FlexLink™ system is an innovative solution to complex gear sprocket mechanisms - simple 90 degree articulation drives the unit. No tight clearances to bind or jam; no close tolerances to foul due to corrosion or wear.



UNHAMPERED BY LARGE DEBRIS

As the Duperon® FlexRake® flexes and pivots around large debris, rigid side fabrications are angled to guide the scrapers to return engagement. This simple method for positive location, along with the scraper's lateral containment by that same rigid frame, ensures the continuous engagement of each successive scraper.

- ENERGY EFFICIENT
- LONG PRODUCT LIFE



REDUCES HEADLOSS, IMPROVES CAPTURE

Multiple scrapers on the screen operating at a speed of 0.5 rpm discharge debris once per minute. The slow operating speed provides long product life. Multiple scrapers minimize debris accumulation, resulting in reduced headloss and slot velocity, as well as greater capture rates.



KEEPS YOU IN CONTROL

Start it up... let it run. In their simplest form, controls are designed for continuous operation. Duperon offers pre-engineered packages that range from basic (continuous operation) to complex (level control with complete SCADA integration).

ELIMINATES ALL SPROCKET-RELATED PROBLEMS

The exclusive flex/pivot action of the Duperon® FlexRake® allows all types of debris to be removed, all at the same screen – regardless of coarse or fine screen openings. With the rugged durability of Duperon equipment, prescreening is no longer a necessity. The design of the Duperon® FlexRake® eliminates the need for a lower sprocket and the common problems that come with it. No lower sprocket means no drive shaft, drive sprockets, or bearings requiring in-channel lubrications. No tracks, gaskets, seals or other close tolerances prone to wear due to grit. Most importantly: NO confined space entries.



STRONGEST IN THE INDUSTRY

THE DUPERON® SOLUTION TO

- LOWER SPROCKETS
- BEARINGS
- SHAFTS
- LUBRICATION POINTS
- CONFINED SPACE ENTRIES
- TRACKS...

THE DUPERON® LINK SYSTEM:

The Duperon® FlexLink™ design utilizes a stainless steel cast link system to create its own in-channel rigid framework and scraper connection point. With a 33,000 lb yield and 60,000 lb break point, it forms a chain that is stronger and more hard-wearing than any other in the industry. That's strength where it's needed most!



VIRTUALLY INDESTRUCTIBLE

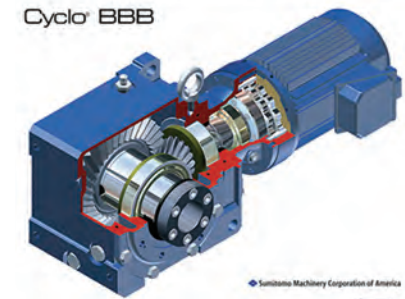
State-of-the-art materials such as UHMW and stainless steel are used for all wetted parts, eliminating corrosion in the harsh wastewater environment. Such materials ensure the highest duty of performance, designed such that the pressures and velocities exerted by the equipment and environment will assure a long life cycle.



Cyclo® BBB

MAINTENANCE AT FIVE-YEAR INTERVALS

This powerful drive lifts up to 1,000 lbs. The Duperon use of premium efficiency Sumitomo Cyclo gear motors eliminates abrasive sliding contact. Unique rolling contact, low operating speeds and the grease-filled non-vented gearbox allow for five-year maintenance schedules.



Sumitomo Machinery Corporation of America

FIVE-YEAR WARRANTY

With more than 25 years in the industry and over 1000 machines worldwide... Duperon has the experience to assure excellence with the industry's first Five-Year Warranty. Duperon® technology leaves nothing to chance... we guarantee it.



EASIER TO INSTALL

The Duperon® FlexRake® ships fully assembled to sites without space or handling constraints, creating installation as simple as pick, place, anchor, wire and run.

When site constraints such as limited access doors, multiple floors, and handling constraints exist, the Duperon® FlexRake® ships fully factory-tested to be disassembled on site. The Duperon simplicity of design makes re-assembly easy, with sites often accomplishing re-assembly and installation in one day – sometimes using an on-site maintenance crew.

LESS MAINTENANCE

Maintenance Schedule	
Daily	None
Monthly	None
Semi-Annually	Check drive and bearing for any apparent leakage or damage. Lubricate bearing.
Annually	Check drive and bearing for any apparent leakage or damage. Verify unit condition.
5 year	Change grease in gearbox.

NOTE: Maintenance is reduced by the simple design of the Duperon® FlexLink™, which is engineered for water lubrication. Slow operating speeds of 0.5 rpm allow for lubrication of the gear motor to occur every 5 years or 20,000 hours.

SIGNIFICANTLY LOWER COST OF OWNERSHIP

Maintenance Schedule and Estimated Labor Hours					
		1 year	5 year	20 years	
Daily	None	0.0	0.0	0.0	
Monthly	None	0.0	0.0	0.0	
Semi-Annually	Visual inspection/lubrication of bearing and seals.	0.5	2.5	10.0	
Annually	Visual inspection for general mechanical condition.	0.5	2.5	10.0	
	Check grease in gearbox.	0.5	2.5	10.0	
	Visual inspection of snap rings.	2.0	10.0	40.0	
Total Labor Hours		3.5	17.5	70.0	



1. Lifting units with use of spreader bar
2. Placing unit at installation angle
3. Use of lifting brackets (for units >4500 lbs.)

LOW PROFILE MEANS REDUCED CONSTRUCTION COSTS



The tougher functionality of the Duperon® FlexRake®, proven through repeated grease attacks and high I & I, was just one benefit of the equipment's installation in Phoenix, Arizona. During plant upgrades, the low profile of the Duperon® FlexRake® saved over \$1M in construction costs when compared to previous equipment.

UNINTERRUPTED BY GREASE AND GRIT ATTACK

In 2004, the City of Monroe, Michigan participated in a “cleaning project” initiated for the purpose of raising awareness of the grease problem within commercial business concerns such as car washes (wax) and restaurants (grease). Prior to the project, influent sewer lines were chemically treated to break down the accumulation of grease, wax and similar solids in successive stages. As was typical, one Duperon® FlexRake® in the City's 6 foot channel was in operation for the project.

Unexpectedly, grease, wax and other solids hit the plant nearly at once, creating a “grease attack” at the headworks. This “attack” overwhelmed the conveyor, but the Duperon® FlexRake® continued as normal, removing several inches of grease and debris with each pass at the screen. The Duperon® FlexRake® maintained headworks operations; when the crew returned the following morning, they found plant processes continuing uninterrupted.

“Ingenious...screenings are 50% drier than what I was seeing before...”
-Michigan installation



1. City of Monroe grease attack
2. Stones/grit easily lifted
3. Duperon® FlexRake® flexing around a barrel

PROVEN STANDARD OF EXCELLENCE

In 2006, Duperon® was the first to offer a Five-Year Warranty in wastewater—the industry's toughest standard for equipment excellence.

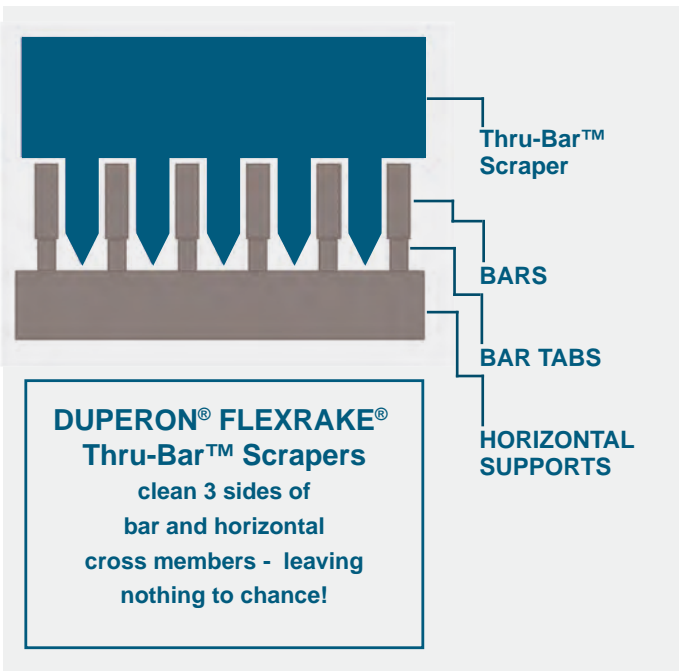


New Mexico

2/3 reduction in disposal volume!
-Pennsylvania installation

DUPERON® SYSTEM OPTIMIZES SAVINGS

An installation in Pennsylvania has reported satisfaction exceeding expectations. Historically, the Authority had disposed of one 3 cubic yard dumpster each week. The dumpster contained extremely wet organic screening waste. The combined installation of a Duperon® FlexRake® and a Duperon® Washer Compactor has reduced this disposal to one 2 cubic yard dumpster every two weeks. With no standing water, there has been significant reduction of weight, thereby reducing trucking and disposal costs. Odor has been considerably reduced, and the dryness of the compacted screenings has improved appearance on disposal. The combined efforts of the Duperon® FlexRake® and the Duperon® Washer Compactor have also had a very favorable impact on maintenance processes downstream.



DUPERON® FLEXRAKE® FP FOR GREATER THAN 1/2 INCH OPENINGS

The Duperon® FlexRake® FP is typically used in wastewater or other applications where debris can accumulate or wrap around the bars. The scraper is designed to clean 3 sides of the bar. The Duperon® FlexRake® FP model is available in bar spacings greater than .5 – 4 inches. If the site allows, this model ships fully assembled. All components are serviceable above the deck, eliminating confined space entries. The FlexLink™ system flexes and pivots around large debris and removes it. Virtually maintenance free!

CONTINUOUS OPERATION ASSURED

The Duperon® FlexRake® handles grease and grit without difficulty, as well as large or unusual debris conditions ranging from sewer plugs to 2" x 4"s. Varied flow and influx of debris are no longer an issue. The Duperon® FlexRake® is designed to continue running through all conditions – assuring that the plant will continue to function without shutdown or operator intervention.



Grease attack? No problem!



Factory demonstration of 4"x4" entering screen at bottom of channel.

WIDTH-LENGTH	18 inches to 12 feet wide. 10 feet to 100 feet long. (Optional: Units wider than 10 feet are considered dependent on site specifications and should be discussed with Duperon Corporation.)
SINGLE-STRAND WIDTH	Also available for channels 18 inches - 24 inches.
ANGLE OF INSTALLATION	Range from vertical to 45 degrees dependent on site conditions.
MATERIAL OF CONSTRUCTION	Standard: 304 SSSL. Alternative: 316 SSSL.
BAR OPENING	.63 inches to 4 inches.
SCRAPER CONFIGURATION	Spacing: Every 2nd link or 21 inches. UHMW Thru-Bar™ scrapers.
TYPICAL MOTOR/SPEED	1/2 HP, explosion proof, inverter duty - operating speed of .5 - 2 rpm.

DUPERON® FLEXRAKE® FPFS, FINE SCREEN MODEL 1/4, 3/8, 1/2 INCH BAR OPENINGS

The smaller the slot opening, the more critical it becomes to keep the bar screen open. The Duperon® FlexRake® FPFS combines the rugged reliability of the Duperon® FlexRake® FP with fine screen openings. Utilizing staging scrapers that clean the face of the bar screen and stainless steel teeth that fully penetrate the bar, the Duperon® FlexRake® FPFS offers precision technology with the ability to adapt to large debris. Duperon has eliminated the need for pre-screening... the powerful combination of stainless steel and UHMW scrapers allows for the best in redundancy and unit performance.

THE BEST SCREENING EFFICIENCY IN THE MARKET

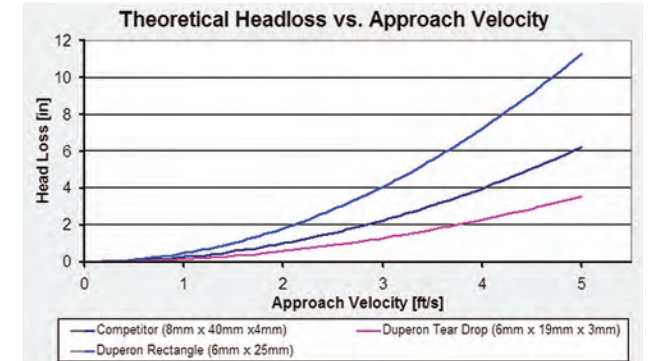
The Duperon® FlexRake® FPFS utilizes custom tear-shaped bars with a 50% screening efficiency for .25 inch bar openings, resulting in more favorable flow characteristics and less headloss. The unique teardrop shape keeps large debris on the surface of the screen for removal by scrapers. Small debris flows right through, and Thru-Bar™ scrapers assure that no debris can accumulate, even on horizontal cross members.

Bar Type	
Sharp-edged rectangular	2.42
Rectangular with semicircular face	1.83
Circular	1.79
Rectangular with semicircular upstream and downstream face	1.67
Tear Drop shape	0.76

Lin, Shundar. Water and Wastewater Calculations Manual. New York, New York. McGraw-Hill, 2001.

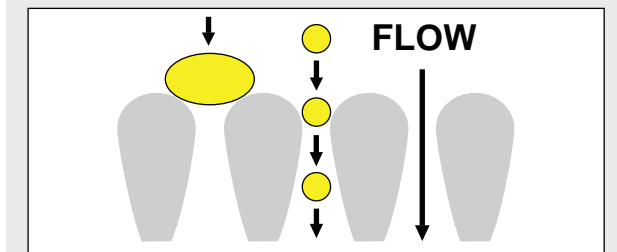
MOST EFFICIENT

WIDTH-LENGTH	2 feet to 12 feet wide. 10 feet to 100 feet long.
SINGLE-STRAND WIDTH	Also available for channels 18 inches - 24 inches.
ANGLE OF INSTALLATION	Range from vertical to 45 degrees dependent on site conditions.
MATERIAL OF CONSTRUCTION	304 SSSL. Alternative: 316 SSSL.
BAR OPENING	.25 inch, .38 inch, .5 inch.
SCRAPER CONFIGURATION	Spacing: Every 2nd link or 21 inches. UHMW staging scrapers/stainless steel Thru-Bar™ teeth positioned at maximum ratio of 3:1.
TYPICAL MOTOR/ SPEED	1/2 HP, explosion proof, inverter duty-operating speed .5-2 rpm.

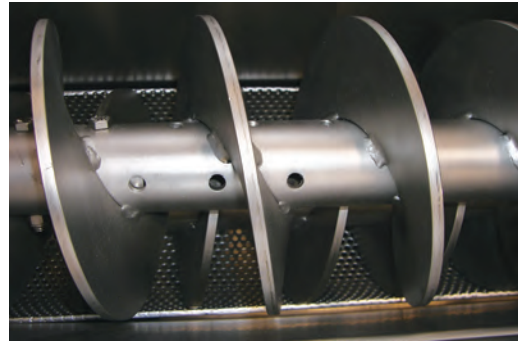


EXCLUSIVE ABILITY TO CLEAN THE BOTTOM OF THE CHANNEL

Due to the "square" sprocket action of the FlexLink™, the Duperon® FlexRake® has the unique ability to hit the base plate of the frame with a scraping, shoveling action that moves debris up the screen, eliminating accumulation at the channel bottom plate.



TEAR DROP BARS ARE THE MOST EFFICIENT BARS IN THE INDUSTRY



DUPERON® WASHER COMPACTOR

Continuing the tradition of simple, efficient, effective products... Exclusive patent-pending positive displacement technology adapts to variations in influent debris. Unique dual-auger design eliminates the need for additional agitation. Flood washing saturates screenings, eliminating clogging issues inherent in fine spray nozzles. Resulting compacted debris is light grey in color, with volume reduction of up to 82%.



DUPERON® AUGER CONVEYOR

The Duperon® Auger Conveyor is flexible (can bend up to 30°) and scalable to site constraints, with modular components that make assembly – and additions – simple. Constructed of abrasion-resistant UHMW and built to uphold the Duperon® tradition of tough durability; powered by the energy-efficient Sumitomo Hyponic drive. A multitude of accessories are available, such as splicing kits, legs, standard mounting holes, and more.



DUPERON® ENCLOSURES

For added convenience and cleanliness, Duperon® enclosures are built to site specifications. Each is available in rugged 304 or 316 stainless steel. Front access panels with options available for SSTL or polycarbonate materials. Rear has lift-off hinged doors with viewing windows. Units without enclosures are optional dependent on site, and should be discussed with Duperon Corporation.



DUPERON® CONTROLS

Duperon offers economical standard control packages as well as PLC, enhanced VFD with differential level controls and completely custom packages, to suit your needs. Please contact us for available options.



Arizona

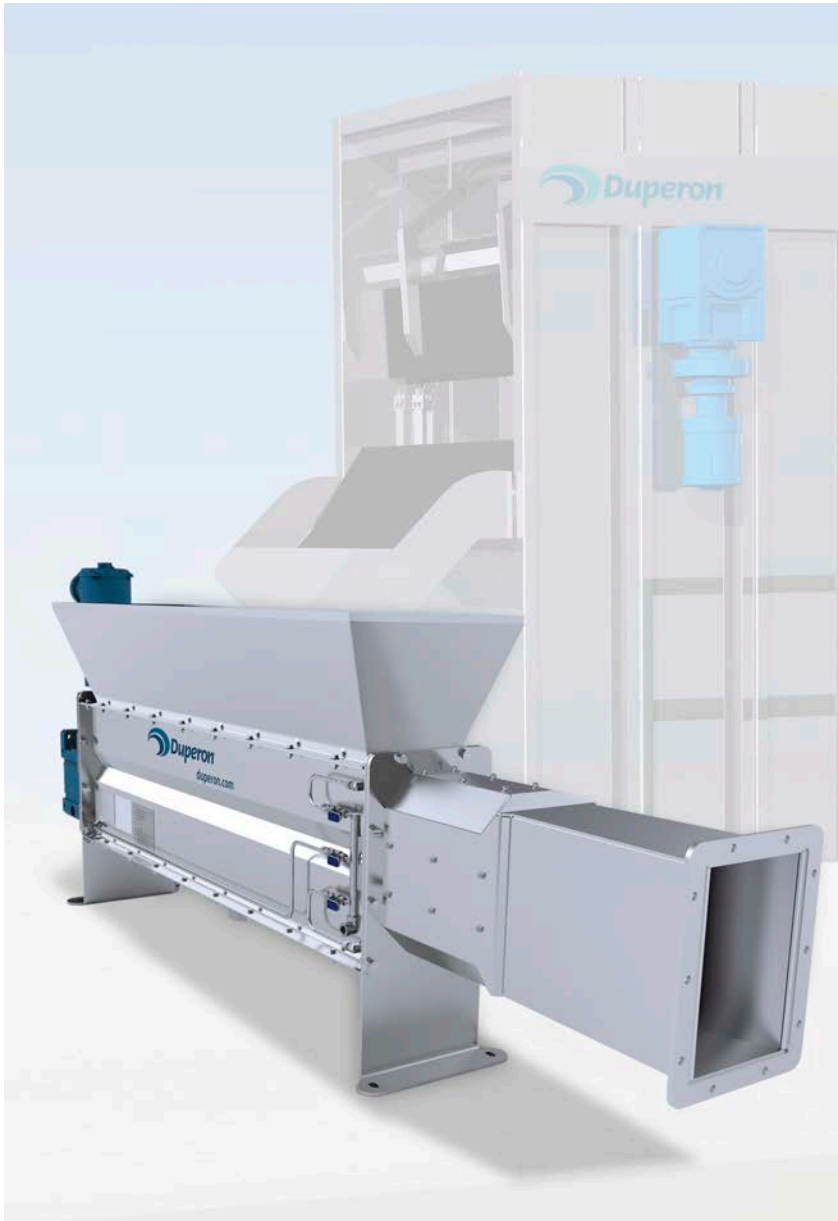


California



Michigan

Self-Regulating Compaction Provides a Reliable, Hassle-Free Way to Reduce Landfill Costs



Washer Compactor Positive Displacement, Dual-Auger System

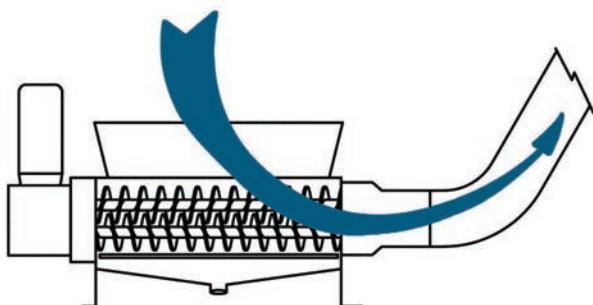
Robustly simple, high-efficiency, non-batching process machine that cleans and compacts screenings up to 4 inches. Standard discharge lengths up to 20 feet.

- Consistent Compaction Regardless of Debris Size or Volume (Using Proprietary Compaction Zone*)
- Positive Displacement: What Goes In Comes Out
- Up To 84% Volume Reduction, Up To 60% Dry Solids; Reduces Landfill Costs
- Accepts Non-Standard Wastewater Debris (Rocks, Clothing, Concrete, Metal) up to 4 inches
- Immediate Debris Processing: Low Odor
- Self-Cleaning Strainer: No Brushes Needed

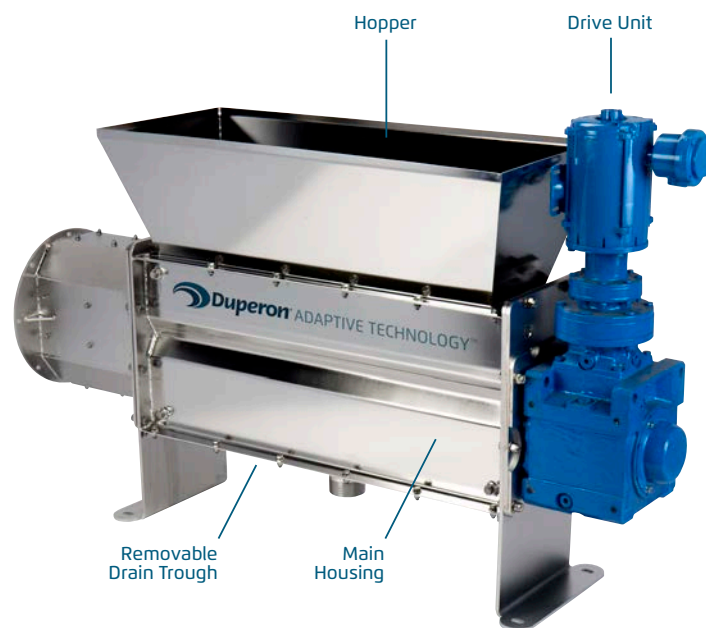
The Duperon® Washer Compactor

Item b.

- Housing Geometry Controls Potential for “Slip Flow” When Processing Grease, Septage and Similar Debris
- Self-Centering Dual Augers Mean No Debris Wrapping
- Non-Clogging Flood Wash Port—Ideal for Non-Potable Water
- Removable Drain Trough Provides Simple Access to Strainer



Non-Batch Operation



Washer Compactor shown without Compaction Housing for use with Discharge Extension Option

WATER

- Utilizes filtered effluent or municipal water
- Washer consumes 3-10 gallons per minute
- Requires 40 PSI-60 PSI
- Drain connection 3" NPT
- Supply connection 1/2" NPT

UTILITY

- 120/240 volt, single phase
- 240/480 volt, three phase (0.6 kW/2.3 kW/3.8kW)

DRIVE

3/4 HP, 3 HP, 5 HP inverter duty motors available

HOPPER

Available in 27", 43" and 67" widths

DISCHARGE CHUTE

Chutes of up to 20' available

MATERIALS OF CONSTRUCTION

- 304 SSSL or 316 SSSL
- SSSL spur gears (17 - 4 PH)

TYPICAL PERFORMANCE

- 30% - 60% dry solids
- 60% - 70% weight reduction
- Significantly decreases odor and fecal content

CAPACITY

Available from: 30 ft³/hour to 150 ft³/hour

MAINTENANCE

Application Specific:
Refer to Duperon® Life Cycle Cost Sheet

DISCHARGE EXTENSION OPTION

Transports debris up to 40' in any direction, without the use of a conveyor



To Learn more about Duperon® Adaptive Technology,™ scan this QR code or visit www.duperon.com



1200 Leon Scott Court | Saginaw, MI 48601 | P 989.754.8800 | F 989.754.2175 | TF 800.383.8479 | www.duperon.com

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Grit King®

All Hydraulic Grit Separation

Product Summary

Low headloss with phenomenal performance

The Grit King® is an advanced hydrodynamic separator that augments gravitational forces to separate grit from water. The Grit King® is an economical choice for new or existing municipal or industrial wastewater applications.

Performance

- » Removes 95% of particles equal to or greater than 75 microns at the design flow rate
- » Less than 20% volatile solids and greater than 60% total solids when paired with a Hydro washing and dewatering system
- » Typically less than 12 inches (30 cm) headloss at peak flow and less than 6 inches (15 cm) at average daily flow

Capacity

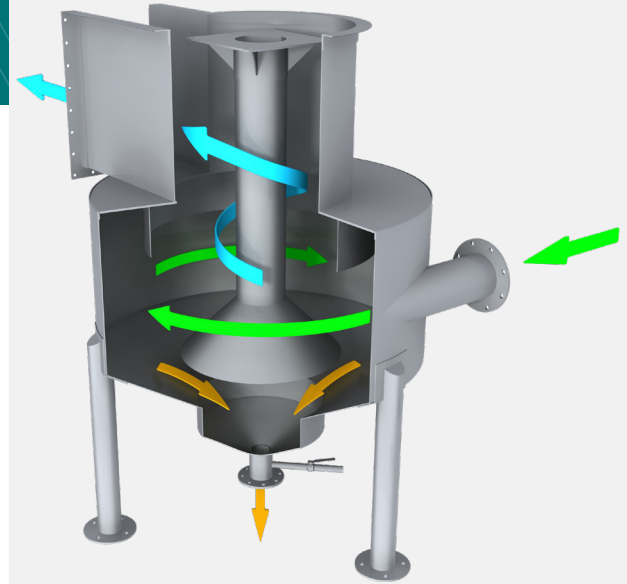
- » Single units can handle flows as low as 0.25 Mgal/d (11 L/s) and multiple units can be provided to handle virtually any flow
- » Turndown ratios for a standard design unit are 4:1 from peak to average flow. Note: ratios in excess of 15:1 can be accommodated
- » For larger applications, typically flows over 10 Mgal/d (440 L/s), the specialized internal components can be mounted in a concrete chamber

How it Works

Flow is introduced into the Grit King® via a tangentially positioned inlet causing a rotational flow path around the dip plate. The flow spirals down the wall of the chamber as solids settle out by gravitational forces and forces created by the rotating flow (green arrow). The grit collects in the grit pot as the center cone directs flow away from the base, up and around the center shaft into the inside of the dip plate (blue arrow).

The upward flow rotates at a slower velocity than the outer downward flow. The resulting “shear” zone scrubs out the finer particles. The concentrated grit underflow is pumped or gravity fed to a grit classifier for dewatering (yellow arrow). The result is clean dewatered grit with low organic content.

Grit King® Flow Pattern



Applications

- » New wastewater treatment plants
- » Treatment plant retrofits
- » Sediment removal pretreatment for potable water
- » Grit removal for industrial effluent
- » Pre-treatment for MBR and many other process upgrades
- » Grit separation in collection system

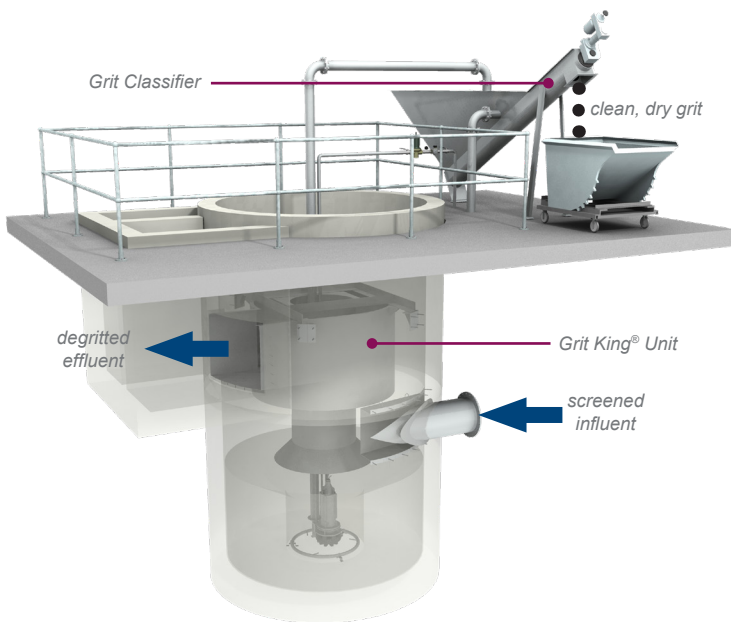
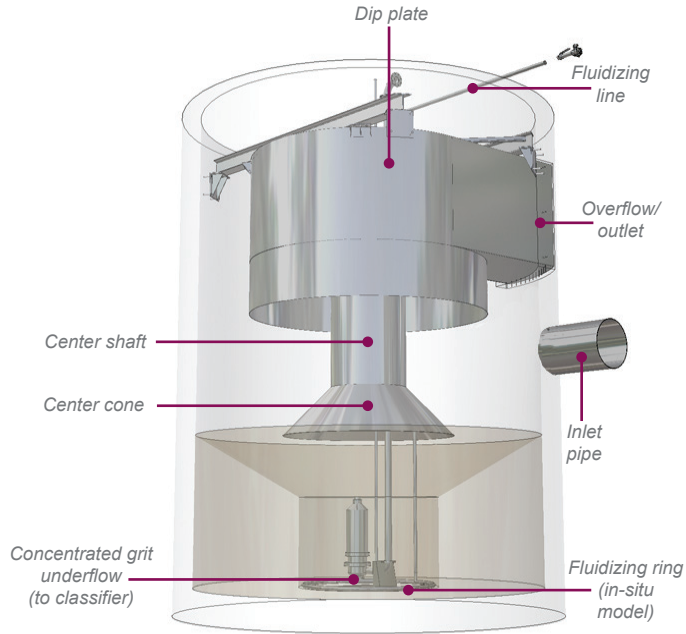
Benefits

- » No moving parts
- » No external power source
- » Economical to own and operate
- » Compact design
- » Minimal headloss



Configurations

- » The Grit King® is available as either a free standing or in-situ unit for versatile installation.
- » Multiple inlet and outlet configurations are available. The inlet and overflow channel may be rotated 360 degrees about the central axis. Overall elevations can be varied to accommodate local site conditions.

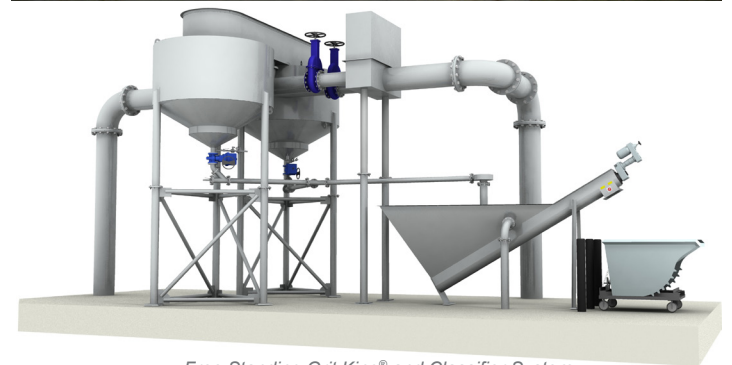


In-Situ Grit King® and Classifier System

Design Notes

Item b.

- » All-hydraulic design with no moving parts ensures a long product life
- » Internal flow structuring components create a long flow path aiding settlement and maximizing grit capture
- » 304 or 316 stainless steel



Free Standing Grit King® and Classifier System

Hydro
International

📍 Hydro International
2925 NE Alcock Suite 140 | Hillsboro, OR 97124
☎ Tel: (866) 615-8130
✉ Email: questions@hydro-int.com
🌐 Web: www.hydro-int.com

Learn more

Visit our website to learn how Grit King® grit separation will protect your plant, reduce your operational costs, and improve the performance of your entire plant.

→ hydro-int.com

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VZ1.1

Appendix F

Primary Clarifier Information Sheets

COP™ Spiral Blade Clarifier

Rapid Solids Removal



WESTECH®

Clarifier Optimization Package



The WesTech Clarifier Optimization Package (COP™) is the result of research and design focused on building a better clarifier. Each COP™ is designed for the specific process requirements of each plant. Proprietary algorithms are utilized to result in a clarifier that provides high performance.

Why Choose a COP™ Clarifier?

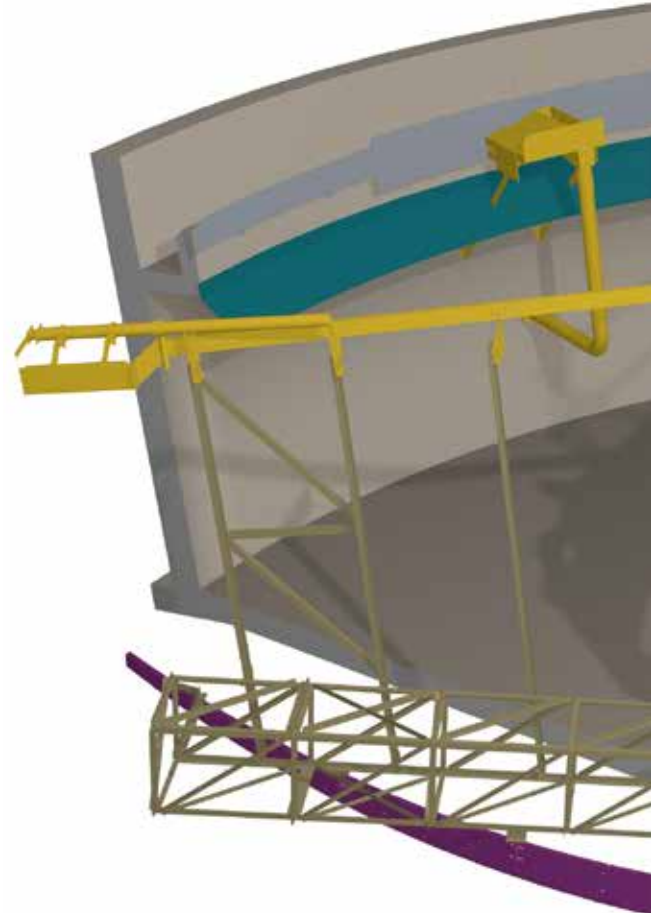
For nearly 30 years, with more than 1,500 installations, WesTech has been improving the performance of both primary and secondary clarifiers with our Clarifier Optimization Package (COP™). WesTech COP™ clarifiers:

- **optimize the clarification process**
- **produce the cleanest possible effluent**
- **maximize underflow concentration**

The influent center column of the COP™ clarifier is sized and ported to both prevent settling and to systematically reduce incoming velocities. WesTech's unique Dual-Gate™ EDI nearly eliminates hydraulic energy as the flow enters the feedwell. Flow enters at the water surface, ensuring that the full volume of the flocculation well is used for gentle mixing and flocculation of the biological solids. Opposing adjustable gates are arranged so that incoming flow impinges on itself, effectively dissipating incoming energy and eliminating focused flow streams that could carry into the clarification zone. The result is a well-flocculated mixed liquor that spreads gently and evenly into the clarifier without disturbing settled solids on the basin floor.

Side-by-side studies show a 27% reduction in effluent suspended solids when using the new Dual-Gate™ EDI versus a conventional EDI in shallow secondary clarifiers.

WesTech's Dual-Gate™ EDI is just one of many benefits provided by the Clarifier Optimization Package. Contact WesTech to find out more about why the COP™ may be a perfect fit for your plant.



Premium Drive Unit

Designed for torque requirements from 1,000 ft-lbs to 6,000,000 ft-lbs, the Premium Drive Unit provides rotational force to the clarifier mechanism while resisting torque loads and overturning moments.

Spiral Rake Blades

Increase sludge transport capacity, providing rapid solids removal, and lower sludge blankets. Eliminate septicity and denitrification.

Density Current Baffle

Eliminates wall currents and prevents short-circuiting. The wall-mounted baffle is low in cost and requires no maintenance.

Scum Removal

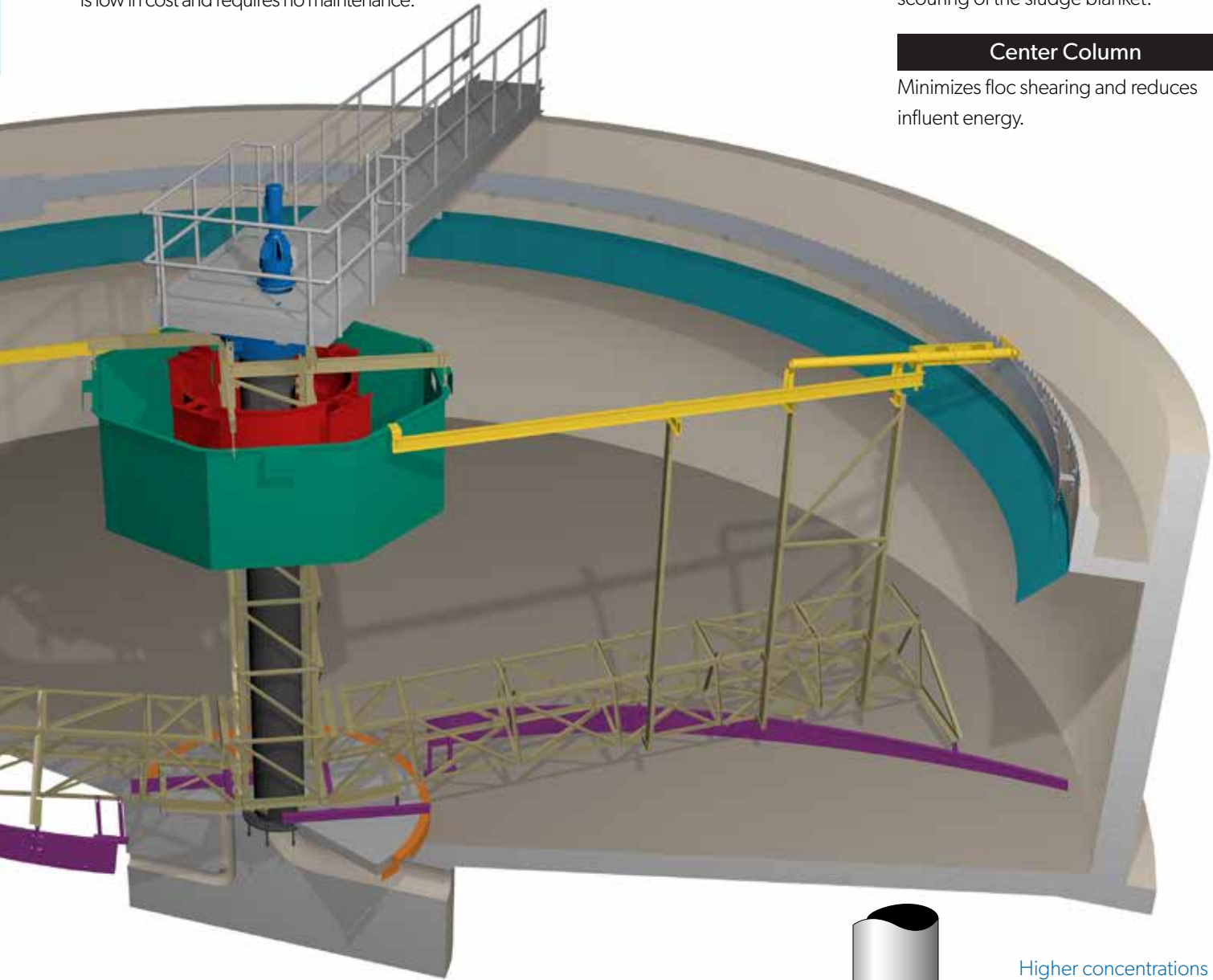
Removes scum build-up from within the feedwell and from the clarifier surface.

Flocculating Feedwell

Promotes hydraulic flocculation in the inlet area and is designed to eliminate scouring of the sludge blanket.

Center Column

Minimizes floc shearing and reduces influent energy.



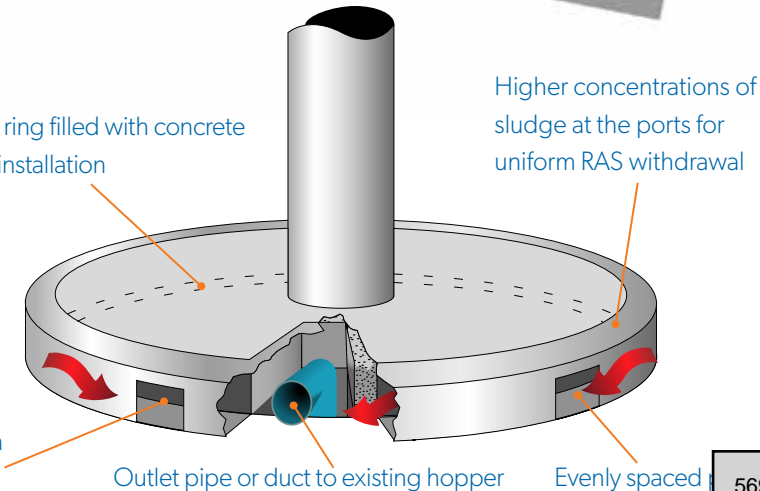
Sludge Withdrawal Ring

Reduces the depth of the sludge blanket in a secondary clarifier – decreasing sludge scour and increasing hydraulic capacity, as well as reducing the possibility of denitrification and phosphorus removal in BNR processes. The Sludge Withdrawal Ring provides rapid solids removal in conjunction with Spiral Rake Blades.

Inner ring filled with concrete after installation

Higher concentrations of sludge at the ports for uniform RAS withdrawal

Large inlet ports prevent plugging and maintain even flow patterns



Outlet pipe or duct to existing hopper

Evenly spaced



Represented by:

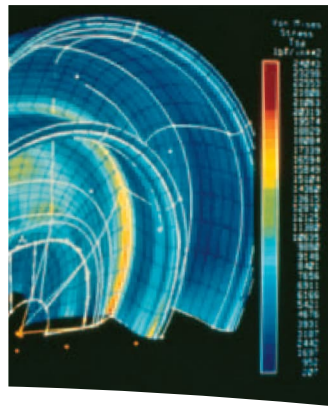
WESTECH® Tel: 801.265.1000
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Salt Lake City, Utah, USA

Appendix G

Vertical Solids Handling Pumps (plant pump station)

MVX
Solids-Handling, Wet-Pit Pump





Pump Supplier to the World

Flowserve is the driving force in the global industrial pump marketplace. No other pump company in the world has the depth or breadth of expertise in the successful application of pre-engineered, engineered and special purpose pumps and systems.

Life Cycle Cost Solutions

Flowserve is providing pumping solutions which permit customers to reduce total life cycle costs and improve productivity, profitability and pumping system reliability.

Market Focused Customer Support

Product and industry specialists develop effective proposals and solutions directed toward market and customer preferences. They offer technical advice and assistance throughout each stage of the product life cycle, beginning with the inquiry.

Broad Product Lines

Flowserve offers a wide range of complementary pump types, from pre-engineered process pumps, to highly engineered and special purpose pumps and systems. Pumps are built to recognized global standards and customer specifications.

Pump designs include:

- Single-stage process
- Between bearing single-stage
- Between bearing multistage
- Vertical
- Submersible motor
- Rotary
- Reciprocating
- Nuclear
- Specialty

Product Brands of Distinction

ACEC™ Centrifugal Pumps

Aldrich™ Pumps

Byron Jackson® Pumps

Calder™ Energy Recovery Devices

Cameron™ Pumps

Durco® Process Pumps

Flowserve® Pumps

IDP® Pumps

Lawrence Pumps®

Niigata Worthington™ Pumps

Pacific® Pumps

Pleuger® Pumps

Scienco™ Pumps

Sier-Bath® Rotary Pumps

TKL™ Pumps

United Centrifugal® Pumps

Western Land Roller™ Irrigation Pumps

Wilson-Snyder® Pumps

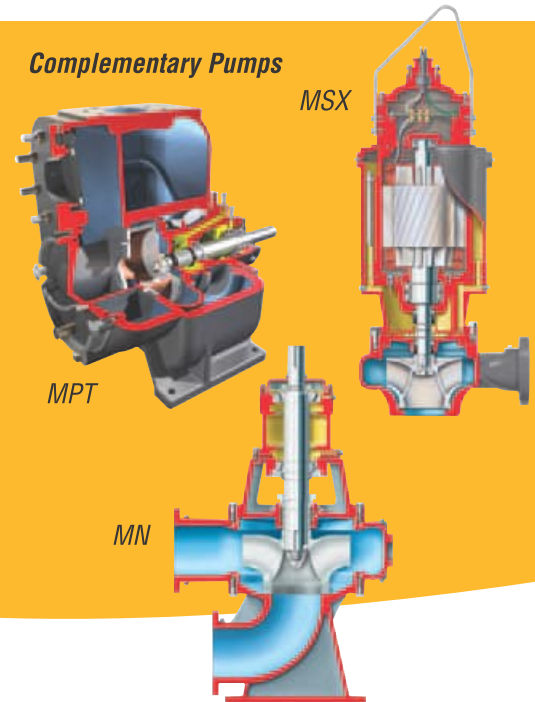
Worthington® Pumps

Worthington Simpson™ Pumps

MVX Solids-Handling, Wet-Pit Pump



Complementary Pumps



Robust and Dependable

The Flowserve MVX is a rugged wet-pit pump designed for use in solids-handling applications and other wet-pit services. Built and tested in conformance with the standards of the Hydraulic Institute, the MVX non-clog pump boasts numerous reliability and performance enhancing benefits:

- Large waterways to minimize clogging
- The absence of a bearing below the impeller allows unrestricted intake of large solids
- Smallest model passes spherical solids up to 76 mm (3 in) diameter; larger models pass spherical solids up to 152 mm (6 in) diameter
- Multi-volute design with perfect balance of radial reactive forces for smooth performance
- Specially designed solids-handling impeller
- Splitter vane to prevent solids from wrapping around the enclosing tube
- Enclosed lineshaft to protect bearing surfaces from abrasives

Typical Applications

- Raw Sewage
- Return Activated Sludge
- Waste Activated Sludge
- Effluent
- Mixed Liquor
- Filter Backwash
- Industrial Wastewater
- Irrigation
- Flood Protection
- Dewatering
- Leachate
- Trash Pumping
- Raw Water

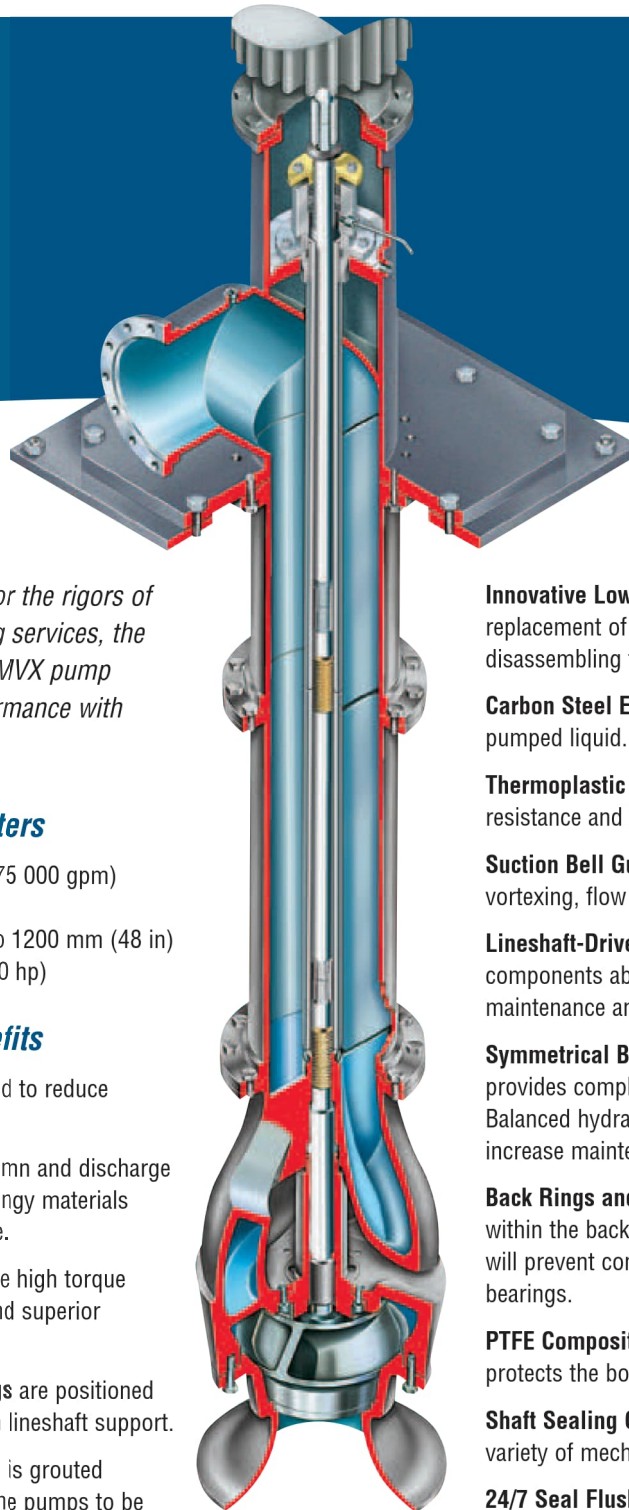
Complementary Pump Designs

Flowserve also provides the following non-clog, solids-handling pump models:

- MF and MN dry-pit pumps with side or bottom suction
- MPT self-priming pump
- MSX submersible pump



MVX
Solids-Handling,
Wet-Pit Pump



Specifically designed for the rigors of wet-pit, solids-handling services, the heavy-duty Flowserve MVX pump provides reliable performance with minimal maintenance.

Operating Parameters

- Flows to 17 000 m³/h (75 000 gpm)
- Heads to 40 m (130 ft)
- Sizes 250 mm (10 in) to 1200 mm (48 in)
- Drivers to 950 kW (1250 hp)

Features and Benefits

Discharge Head is mitered to reduce friction losses.

Splitter Vanes in the column and discharge head guide solids and stringy materials around the enclosing tube.

416 SS Lineshafts provide high torque transmission capability and superior corrosion resistance.

Bronze Lineshaft Bearings are positioned every 1.5 m (5 ft) for firm lineshaft support.

Separate Steel Soleplate is grouted and leveled. This allows the pumps to be removed for service without disturbing the grout.

Column Pipe is constructed in interchangeable 3 m (10 ft) sections and is connected by registered flanged joints to ensure proper alignment.

Innovative Lower Bearing Cartridge design allows replacement of the bottom bowl bearing without disassembling the entire pump.

Carbon Steel Enclosing Tube protects lineshaft from pumped liquid.

Thermoplastic Bowl Bearing offers superior abrasion resistance and increases load carrying capability.

Suction Bell Guide Vanes provide straight, non-vortexing, flow into impeller eye.

Lineshaft-Driven Impeller places all electrical components above flood levels, simplifying maintenance and increasing personnel safety.

Symmetrical Bowl with its multi-volute design provides complete balance of radial reactive forces. Balanced hydraulic forces reduce bearing load and increase maintenance intervals.

Back Rings and Relief Ports reduce the pressure within the back rings to submergence pressure. This will prevent contaminants from freely flowing into the bearings.

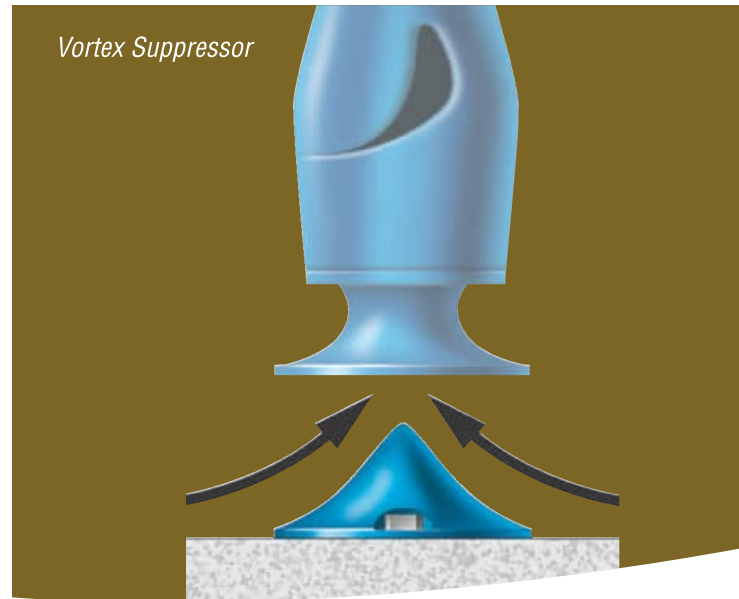
PTFE Composite Lip Seal resists abrasion and protects the bowl bearing.

Shaft Sealing Options include soft packing or a variety of mechanical seal types and mountings.

24/7 Seal Flush System increases pump reliability.

High-efficiency Enclosed Non-Clog Impeller is designed with a minimum number of vanes for maximum capability to pass solids.

Standard Suction Bell Wear Ring and optional impeller wear ring enable renewal of clearances and hydraulic efficiency.



Heavy-Duty Discharge Head Provides Motor Flexibility and Flow Guidance

The MVX's three-section mitered discharge head provides rigid and stable support for solid or hollow shaft P-base motors. The discharge head also incorporates a splitter vane which is blended with the column splitter vane. Together, these splitter vanes guide solids and stringy materials around the pump's enclosing tube and into the discharge without clogging. This design serves to maintain hydraulic efficiency and increase pump reliability.

Enclosed, Mixed Flow Impeller Minimizes Clogging

Designed with a minimum number of vanes and wide passageways to prevent clogging, the MVX impeller is well-suited for solids-handling applications. Vane tips are rounded to prevent the accumulation of stringy materials at the impeller eye. All MVX pumps pass 76 mm (3 in) spherical solids at a minimum.

Back rings and a relief port reduce the pressure at the rear of the impeller to prevent contaminants from flowing into the lower bearings.

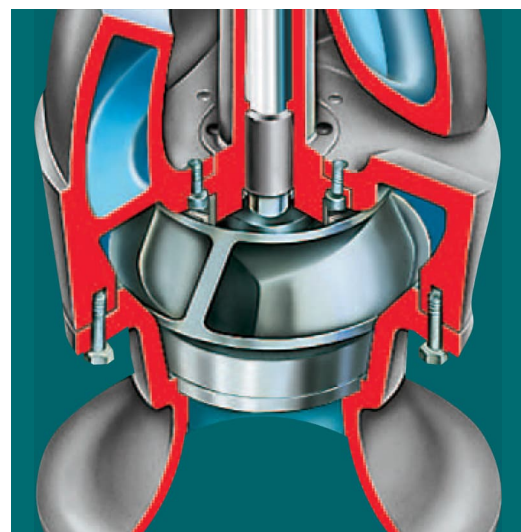
Each impeller is dynamically balanced prior to assembly and positively secured to the shaft with a key, a contoured washer and a locking cap screw.

Self-Cleaning Trench Wet Well

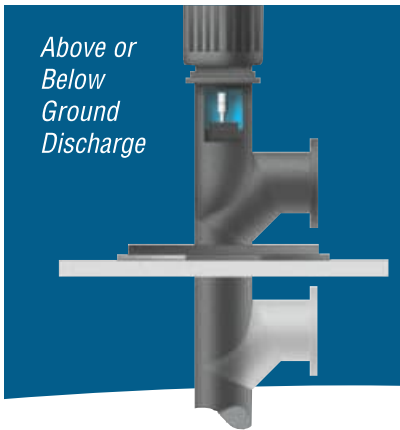
The MVX pump is ideally suited for use in self-cleaning trench wet well applications.

Available Vortex Suppressor Ensures Hydraulic Efficiency

The MVX pump is available with a vortex suppressor to ensure maximum hydraulic efficiency. Constructed of either cast iron or fabricated steel, the suppressor is installed at the bottom of the sump under the pump suction to minimize vortex formation and guide the flow uniformly into the suction bell.



Options and Technical Data



Available Materials of Construction

Stationary Parts	
Pump Head	Steel
Bowl	Cast Iron
Suction Bell	Cast Iron
Lineshaft Bearings	Bronze
Bowl Bearing	Thermoplastic
Lower Lip Seal	PTFE Composite
Shaft Plating	Nickle, Tungsten, Chromium Alloy
Packing Box	Cast Iron
Wear Ring	Stainless Steel
Rotating Parts	
Impeller	Cast Iron
Lineshaft	Stainless Steel
Wear Ring	Stainless Steel

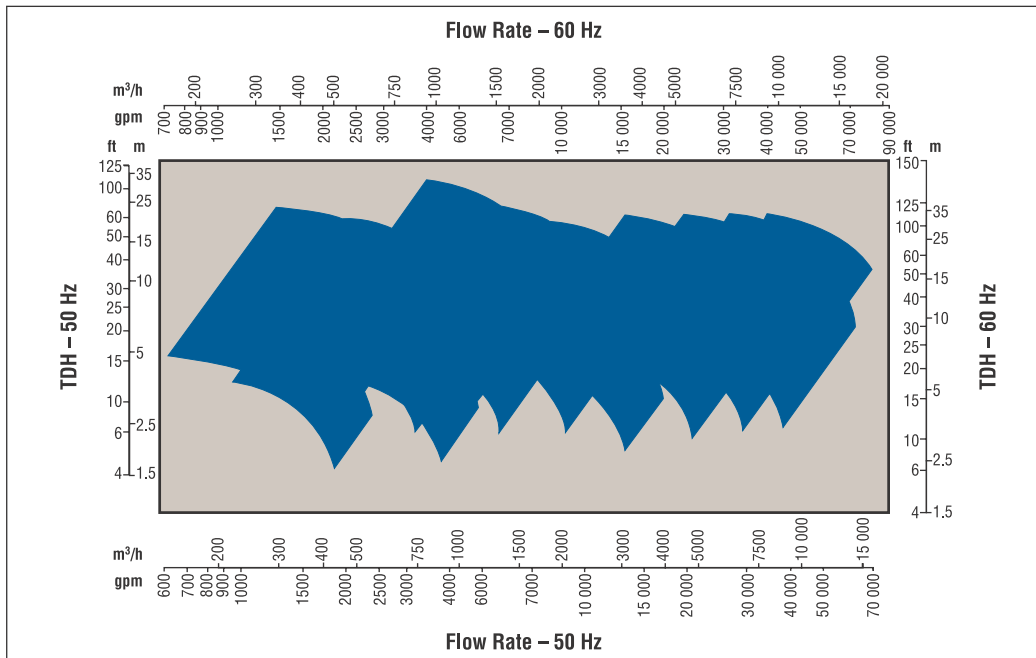
Available Discharge Configurations

MVX pumps are available with above or below ground discharge flanges to suit site conditions.

FEA Ensures Stability

A finite element analysis is performed on all MVX pumps to ensure vibration damage will not negatively impact pump performance. By identifying and rectifying potential vibration sources, maintenance is reduced and pump life is prolonged.

MVX Range Chart



Global Service and Technical Support



Life Cycle Cost Solutions

Typically, 90% of the total life cycle cost (LCC) of a pumping system is accumulated after the equipment is purchased and installed. Flowserve has developed a comprehensive suite of solutions aimed at providing customers with unprecedented value and cost savings throughout the life span of the pumping system. These solutions account for every facet of life cycle cost, including:

Capital Expenses

- Initial purchase
- Installation

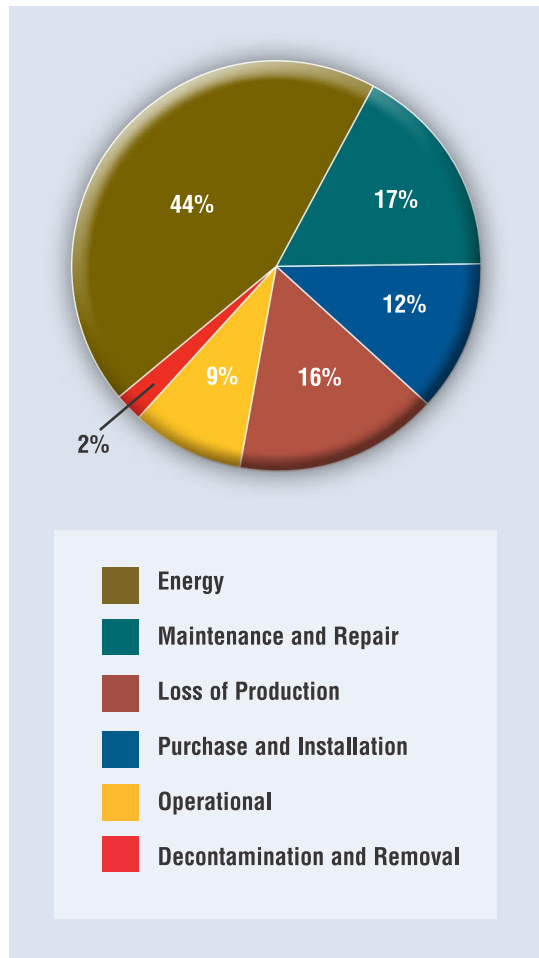
Operating Expenses

- Energy consumption
- Maintenance
- Production losses
- Environmental
- Inventory
- Operating
- Removal

Innovative Life Cycle Cost Solutions

- New Pump Selection
- Turnkey Engineering and Field Service
- Energy Management
- Pump Availability
- Proactive Maintenance
- Inventory Management

Typical Pump Life Cycle Costs¹



¹ While exact values may differ, these percentages are consistent with those published by leading pump manufacturers and end users, as well as industry associations and government agencies worldwide.



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Bulletin PS-40-5c† (E) Printed in USA. January 2011. © Flowserve Corporation

To find your local Flowserve representative:

For more information about Flowserve Corporation,
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Appendix H

Secondary Rectangular Clarifier Information Sheets



ENVIREX[®] CHAIN & SCRAPER SLUDGE COLLECTOR SYSTEMS & COMPONENTS

EVOQUA IS THE TECHNOLOGY LEADER IN SLUDGE COLLECTORS

Envirex® rectangular sludge collector systems and components are made of advanced materials and designed for long life and reduced wear. They offer more options, material choices and sizes than anyone else in the industry. All systems and components are designed to meet the specific requirements of each installation, whether for new construction or when retrofitting existing collectors.

1 Carrier Chains

Envirex® NCS720S Chain: This is the worldwide standard for molded collector chain. Lightweight and easy to install, it provides wear resistance, chemical resistance, and long service life. Some of the original installations have over 20 years of successful operation.



Envirex® HS730 Chain: Constructed out of high-strength composite materials, Loop Chain is suited for collectors that are heavily loaded or are over 300 ft (90 m) in length. It is the only non-metallic collector chain that offers strength nearly equal to cast and stainless steel chain at a fraction of the weight.



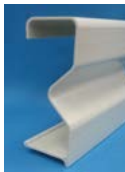
Envirex® ENV715 Chain: Manufactured out of Series 400 stainless steel with hardened pins and bushings, ENV715 collector chain provides excellent strength and corrosion resistance. This chain is suitable for applications with elevated grit levels or sludge loads where a stronger, more robust chain is required. It is especially suited for plants using stacked (double deck) collectors where the collectors can't be visually inspected or easily accessed.



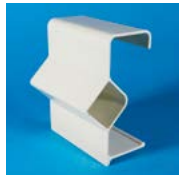
2 Fiberglass Scraper Flights

Envirex scraper flights are pultruded out of fiberglass for consistent shape, quality and performance. The fiberglass is totally encapsulated in a water resistant resin to prevent wicking, ensuring the flights remain strong and stiff throughout their service life. The standard size is 3 inch by 8 inch (76 mm x 203 mm) and will fit existing F28 attachment mounting hole patterns.

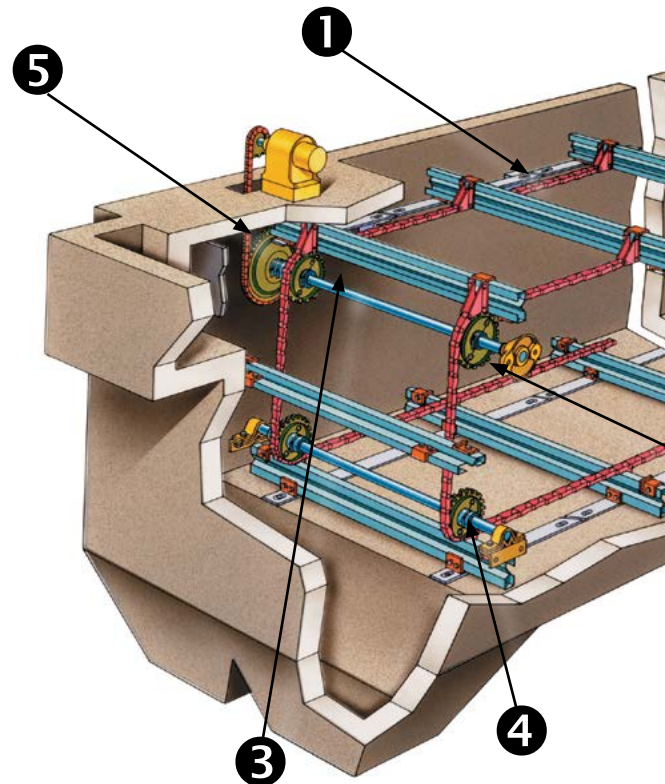
Sigma Plus Flights: This flight is an improvement over conventional channel flights due to its transverse concave indentation. With 60% greater structural support compared to a channel flight, it can be installed in collectors up to 25 feet (7.6 m) wide.



Diamond Flights: This high strength flight can handle heavy sludge loads or be used in tanks up to 32 feet (10 m) in width. This special design gives it exceptional resistance to deflection and twist.



Extensions: Envirex flights can be provided with an integral face extension to permit more effective movement of lighter secondary or alum sludge, which can flow over shorter flights. It also provides added stiffness and strength for challenging applications. Sigma Plus extensions are available in 3 inch (76 mm) and 7 inch (178 mm) heights, and the Diamond is available with a 4.5 inch (114 mm) extension.



3 Shafting - Head

Metallic: Solid construction up to 25 ft (7.6 m) or torque tub to 30 ft (10 m), keyed to suite. Available in carbon or stainless steel.

Non-metallic: This new assembly consists of a filament wound fiberglass unitube with UHMW PE end bearings. The tube rotates over fabricated stainless steel wall supports to provide proper load absorption. The result is a headshaft that is lightweight, corrosion resistant, and doesn't require additional external lubrication.



4 Shafting - Corners

Full width: Solid construction for use in either live (in bearings) or static (fixed, not rotating) applications. Available in carbon or stainless steel.

Stub shaft: Cast iron tripod with extendable metallic stub end to accommodate tank wall irregularities.



Driven: Non-metallic and split construction for easy installation. Dished to accommodate wall bearings and to avoid contact with flights. Replaceable or integral teeth are available.

Materials: Teeth in polyurethane or cast nylon. Bodies in polyurethane, cast nylon or cast iron.



6 Return Tracks

Angles: Wall mounted supports with replaceable UHMW PE wear strip for low friction and extended service life for flight wear shoes and support rails. Non-metallic wall brackets that are adjustable in the field to ensure proper flight tracking along the collector. Available in fiberglass, carbon or stainless steel.

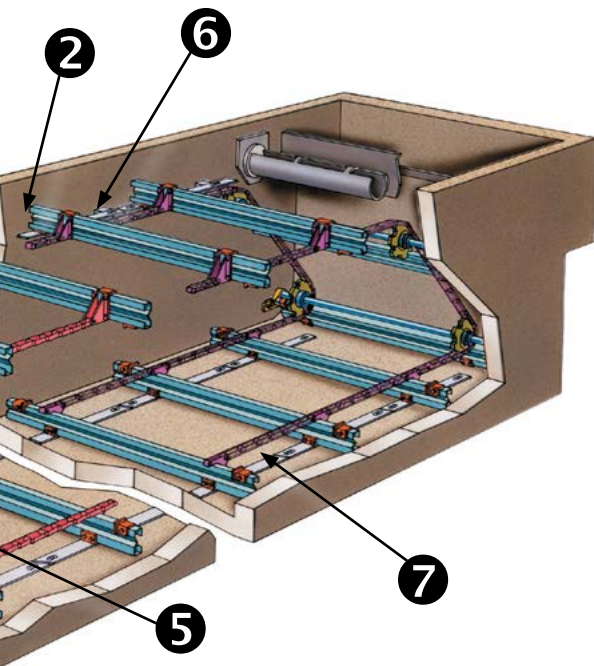
J-Track: Named for the unique shape of the main fiberglass structural member, this special configuration eliminates twisting and bowing for track support spacing greater than 20 ft (3 m). A UHMW PE wear strip slides on top of the J, eliminating the need for mounting hardware, maximizing the effective wearing thickness.

7 Wearing Strips

Floor: The Envirex wear strip system is attached directly to the tank floor to conform to rough concrete surfaces and uneven expansion joints. Manufactured out of UHMW PE material for low friction.

C-Rail: The floor-mounted version of the wear strip used with the J-Track. T-shaped cleats accommodate the special wear strip, eliminating mounting hardware and maximizing the effective wear shoe.

Return Track: Same as the floor wear strips, but attached to fiberglass return track with self-tapping screws to reduce installation time. Can also be attached to metallic return tracks with weldable washers.



5 Sprockets

Collector: Non-metallic and split construction for easy installation. Integrally molded hubs, tooth profile and chain saver rim for optimum integrity and strength. Captured keyway or set screwed for headshaft sprockets to ensure accurate location.

Driver: Non-metallic teeth on a metallic hub with torque overload protection.





We offer complete installation and after-sales services to help you protect your investment.

- Our experienced field service personnel—the largest group in the industry—can handle a complete upgrade, or do portions of it assisted by your personnel.
- We can handle the installation of new collectors, as well, working with your contractors or others. They can perform annual inspections, advise on inventory requirements and, of course, be on-site for emergencies.
- We can upgrade or retrofit any manufacturer's sludge collector with new, non-metallic components. The renovated collector will run smoother and require far less maintenance than the original.
- For replacement parts, we have the most extensive inventory in the business, and can ship from stock immediately when required.

Envirex[®]
an EVOQUA brand



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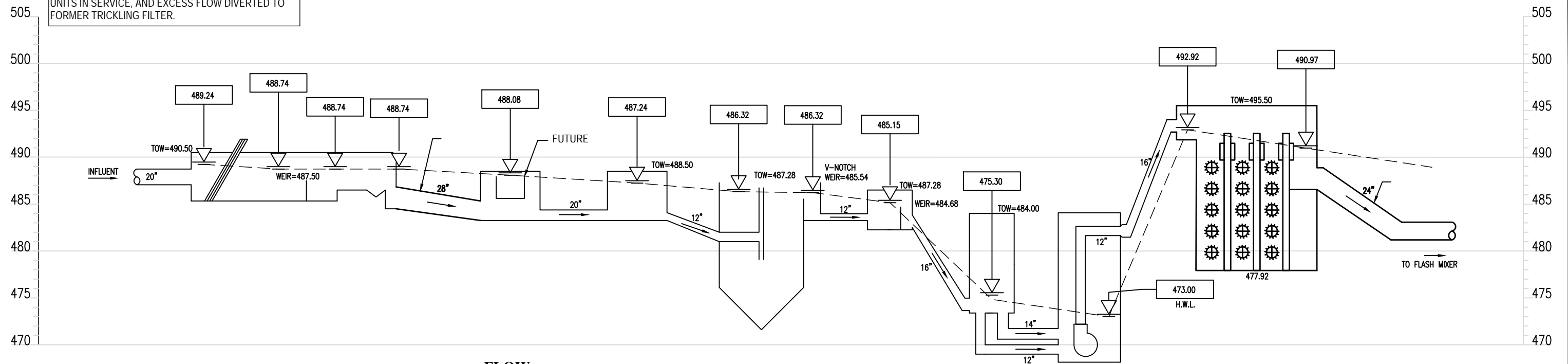
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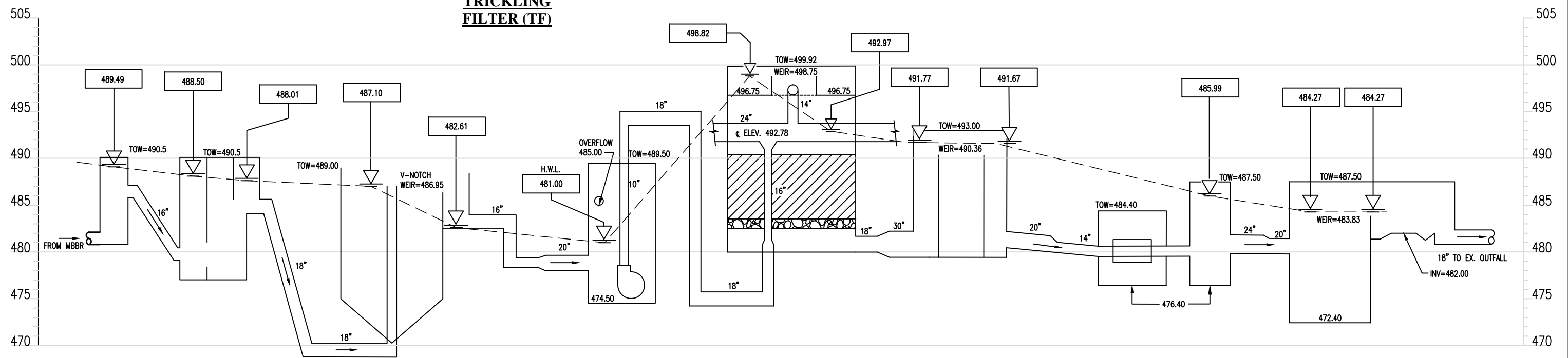
Appendix I

Preliminary Plant Hydraulic Profile

NOTE: PROFILE HGL BASED ON 9 MGD WALL PROCESS UNITS IN SERVICE, AND EXCESS FLOW DIVERTED TO FORMER TRICKLING FILTER.



BAR SCREEN GRIT CHAMBER PARSHALL FLUME FLOW DIVERSION TO FORMER TRICKLING FILTER (TF) SPLITTER BOX PRIMARY CLARIFIERS FORMER TF DOSING TANK JUNCTION BOX PLANT PUMP STATION MOVING BED BIOREACTOR



FLASH MIXER FLOCCULATOR TANK NO. 2 SECONDARY CLARIFIERS DENITRIFICATION FILTER PUMPING STATION DENITRIFICATION FILTERS CLEARWELL UV DISINFECTION VAULT/EFFLUENT WELL POST AERATION TANK PARSHALL FLUME



TOWN OF WARRENTON

WWTP UPGRADE AND EXPANSION

PRELIMINARY HYDRAULIC PROFILE

SCALE:

DATE: DECEMBER 2021

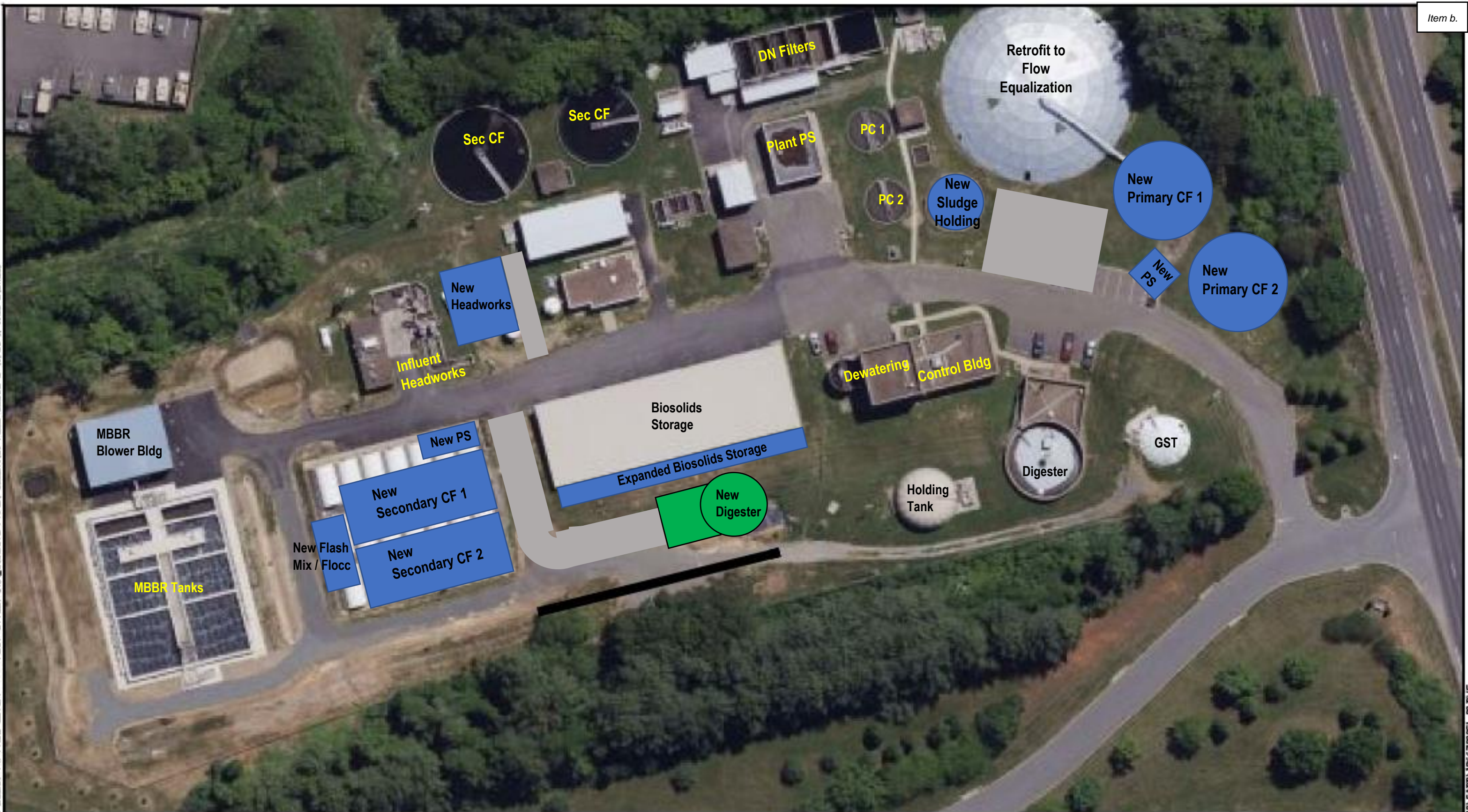
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Appendix J

Proposed Facility Layouts (A & B) – Plant Expansion

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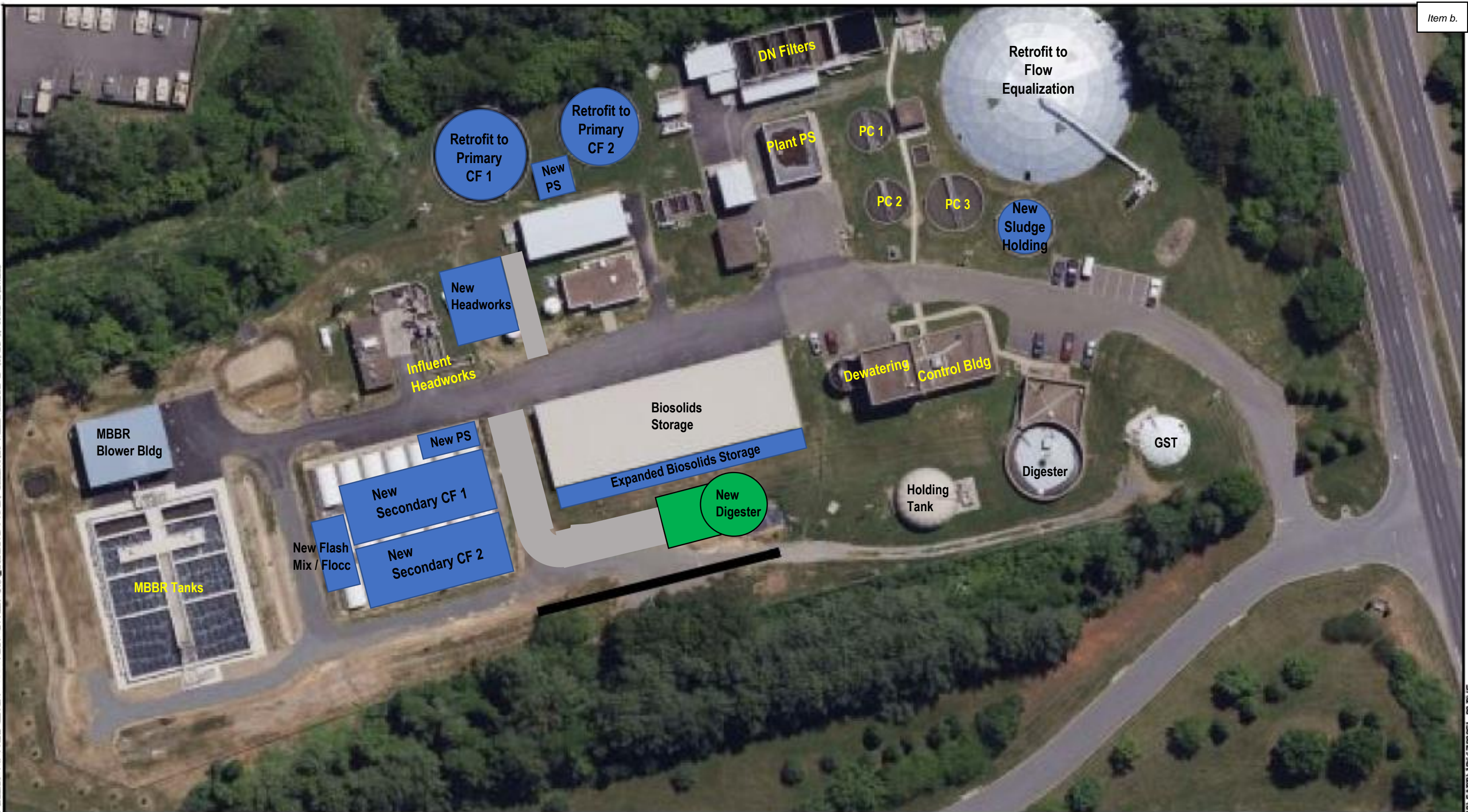
TOWN OF WARRENTON

WWTP UPGRADE AND EXPANSION

Plant Expansion
Facility Layout "A"
DATE: DECEMBER 2021

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TOWN OF WARRENTON

WWTP UPGRADE AND EXPANSION

Plant Expansion
Facility Layout "B"
DATE: DECEMBER 2021

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Appendix K

Solids Handling Facilities Report (February 2020)



Wastewater Treatment Plant

Solids Handling Facilities Upgrade and
Expansion

Facility Plan

Town of Warrenton, VA

Department of Utilities

February 2020 *(rev March 2022)*



TOWN OF WARRENTON WASTEWATER TREATMENT PLANT SOLIDS HANDLING FACILITIES UPGRADE AND EXPANSION

EXECUTIVE SUMMARY

The Town of Warrenton owns and operates an advanced wastewater treatment plant (WWTP) permitted for 2.5 million gallons per day (MGD) average daily flow (ADF). As plant flows have gradually increased in recent years, the Town recognizes the need to assess the reliable treatment capacity of the existing facilities and what upgrades would be required if the treatment capacity were to be expanded. In May 2017, WRA prepared a Plant Capacity Evaluation report identifying the facility improvements needed to expand the plant capacity by 20%, to an ADF of 3.0 MGD. A subsequent Plant Capacity Evaluation Summary considered potential expansion of the plant to 3.5 MGD and ultimately to 4.0 MGD.

The Town has requested a further evaluation specific to the existing solids handling processes, and alternatives for upgrading and expanding the solids handling capacity in step with the plant's liquid treatment capacity from the current 2.5 MGD to 3.0 MGD and 3.5 MGD.

This Report identifies the condition of the existing infrastructure, the solids process upgrade and expansion needs. Based on the recent historical solids produced and the projected amounts at future flows, along with an assessment of the existing solids handling facilities, the following phasing of upgrades is recommended.

Phase I: Near-term at current flows:

- Refurbish existing gravity sludge thickener (GST) including replacement of sludge mechanism, bridge, and cover, and repair concrete as needed. Consider provisions to add diluting water and/or chlorine to the GST feed.
- Consider replacing existing digester plug valves to improve operability. Regrade around the digester tank.
- Expand the dewatered sludge storage area as needed.

Phase II: Plant flows near 2.5 MGD Permitted Capacity:

- Begin planning for and design a new second 50 ft diameter primary digester and associated facility in anticipation of a plant capacity expansion to 3.0 MGD as flows near the current permitted capacity.
- A new electrical service will be required for the second digester facility.
- Upgrade and replace process equipment (heat exchanger and pumps) and electrical MCC for the existing digester. This work may be required earlier as part of Phase I.
- Consider increasing dewatering capacity; replace existing BFP with large unit or replace with dewatering screw press

Phase III: Plant Expansion to 3.0 MGD and 3.5 MGD:

- Assuming a new second digester is implemented in Phase II and depending on the performance of the existing Gravity Sludge Thickener (GST) when flows approach 3.0 MGD, consider replacing with a larger GST.
- Further expand the sludge storage area as needed.

Preliminary planning level construction costs are included in **Table 1**.

Table 1: Solids Facility Improvements Planning Level Construction Costs

Phase	Upgrades	Planning Level Construction Costs ¹
I	Refurbish Existing GST Replace Existing Digester Valves and Regrade Expand Dewatered Sludge Storage	\$1.0M - \$1.5M
II	Add New Primary Digester Replace Existing Digester Equipment Provide New Electrical Service	\$7.5M - \$8.5M
III	Replace GST (with larger unit) Further Expand Dewatered Sludge Storage	\$1.25M - \$1.75M

¹ Costs do not include Engineering and Administration (2021 dollars)

As discussed in **Section 3**, depending on biosolids management and future regulations, the Town may plan for and possibly build a new Class A biosolids facility. The facility would include a new sludge dryer, building and associated process equipment and would involve a substantial capital cost (in the range of \$10M - \$12M).

A schematic site plan is shown below for the areas of solids handling facility improvements.

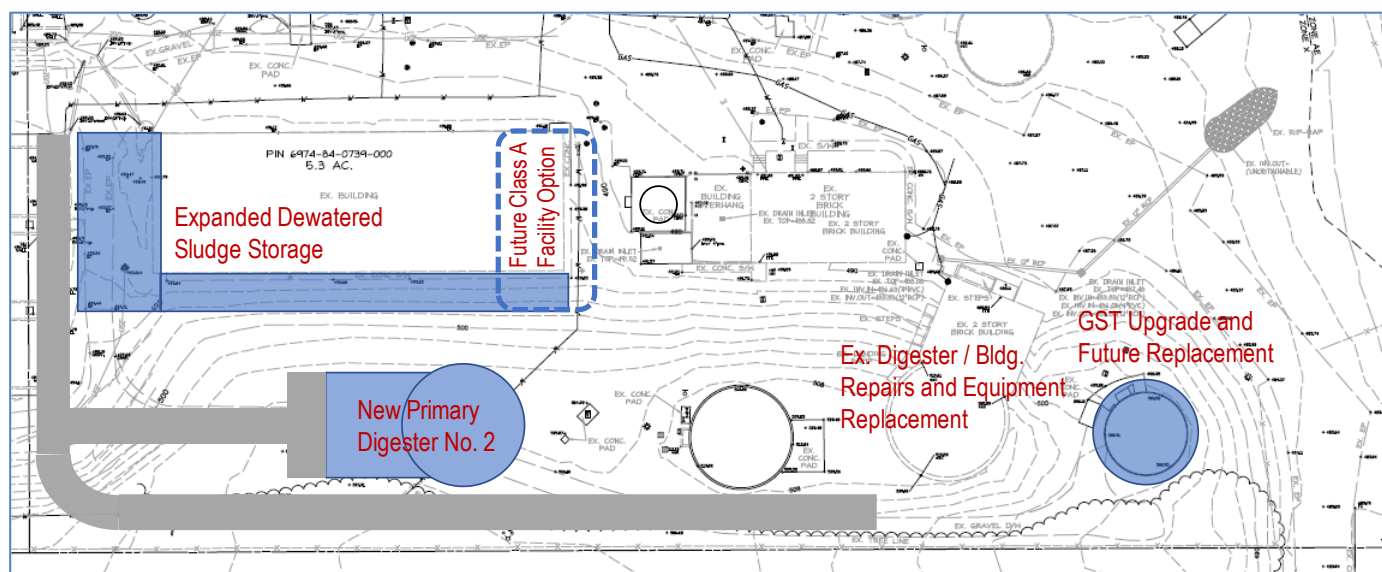


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 - Gravity Belt Thickener
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 - Dewatering Screw Press

1 BACKGROUND

The Town of Warrenton owns and operates an advanced wastewater treatment plant permitted for 2.5 million gallons per day (MGD) average daily flow (ADF). The original plant was constructed in the late 1950's followed by capacity expansions in the 1970's and early 1990's to its current capacity. The existing facilities include preliminary treatment (screenings and grit removal) and primary treatment. Secondary biological treatment and ammonia removal is provided by a conventional trickling filter (TF) and a Rotating Biological Contractor (RBC) process which also provides for the required ammonia removal. Construction is currently underway to replace these aging units with a "Moving Bed Bio-Reactor" (MBBR) treatment process. The MBBR process is a newer and more efficient technology that combines the treatment functions of the trickling filter and RBCs into one process tank. In the late 2000's the plant was upgraded to provide for enhanced nutrient removal (total nitrogen and phosphorus) through post-denitrification filters and chemical addition. Tertiary effluent is disinfected through a UV-system and aerated before final discharge.

As plant flows have gradually increased in recent years, the Town recognizes the need to assess the reliable treatment capacity of the existing facilities and what upgrades would be required if the treatment capacity were to be expanded. In May 2017, WRA prepared a Plant Capacity Evaluation report identifying the facility improvements needed to expand the plant capacity by 20%, to an ADF of 3.0 MGD. In July 2019 WRA prepared a Plant Capacity Evaluation Summary that considered potential expansion of the plant up to an ADF capacity of 4.0 MGD.

The Town has requested a further evaluation of the existing solids handling processes, and alternatives for upgrading and expanding the solids handling capacity. For planning level purposes, the solids process will consider a corresponding liquid side treatment expansion from the current 2.5 to 3.5 MGD.

This Report identifies the condition of the existing infrastructure, the solids process expansion needs, and provides a basis of design for an upgrade with provisions for expansion of the plant's solids handling facilities.

2 EXISTING SOLIDS HANDLING FACILITIES AND OPERATION

2.1 Existing Facilities

The plant produces primary sludge, secondary sludge from the RBCs and tertiary sludge from the DN filters. Metal salt (poly-aluminum chloride, PACL) is added to the secondary clarifiers for improved solids and chemical phosphorus removal. Sludge is also received from the Town's water treatment plant as it is discharged through the sanitary sewer system.

Settled primary and secondary sludges are withdrawn intermittently from the clarifiers through telescoping valves into separate sludge sight wells. Primary sludge is withdrawn between 8:00 AM and 12:00 AM (16 hours over two shifts). The primary sludge sight well (3,000 gallons) is filled 4-5 times during this period and pumped to the gravity sludge thickener (GST). It takes about one hour to pump out the well. Secondary sludge is withdrawn and pumped to the GST for 15 minutes each hour, 24/7. The pumping rate for both the primary and secondary sludge pumps is about 50 gallons per minute (gpm). The total daily sludge flow (primary + secondary) to the GST is about 30,000 – 35,000 gallons. The mixed solids content average about 1.0-1.5%, and the estimated daily dry solids feed to the GST is about 3,700 lbs.

Underflow from the GST is pumped intermittently (15 minutes each hour) to a mesophilic anaerobic digester with a floating cover. The digester temperature is maintained by sludge recirculation through a "tube-in-a-tube" heat exchanger. Digester mixing is done with a Pearth™ gas mixing system integral with the floating cover. Digested sludge is pumped intermittently to a sludge holding tank with a flexible membrane cover for gas storage. Sludge is pumped from the sludge holding tank to a belt filter press for dewatering, operating 7-10 hours per day, 5 days per week. Dewatered cake drops into a dump truck below the dewatering building and is unloaded and stored on site on a covered sludge storage pad. Stored sludge is hauled and disposed off-site through contract operations. Dewatering filtrate is stored and equalized in a buffer tank, and then metered into the primary influent.

Figure 1 shows an aerial view of the solids handling facilities and **Figure 2** depicts the solids handling flow schematic.

Figure 1: Existing Solids Handling Facilities

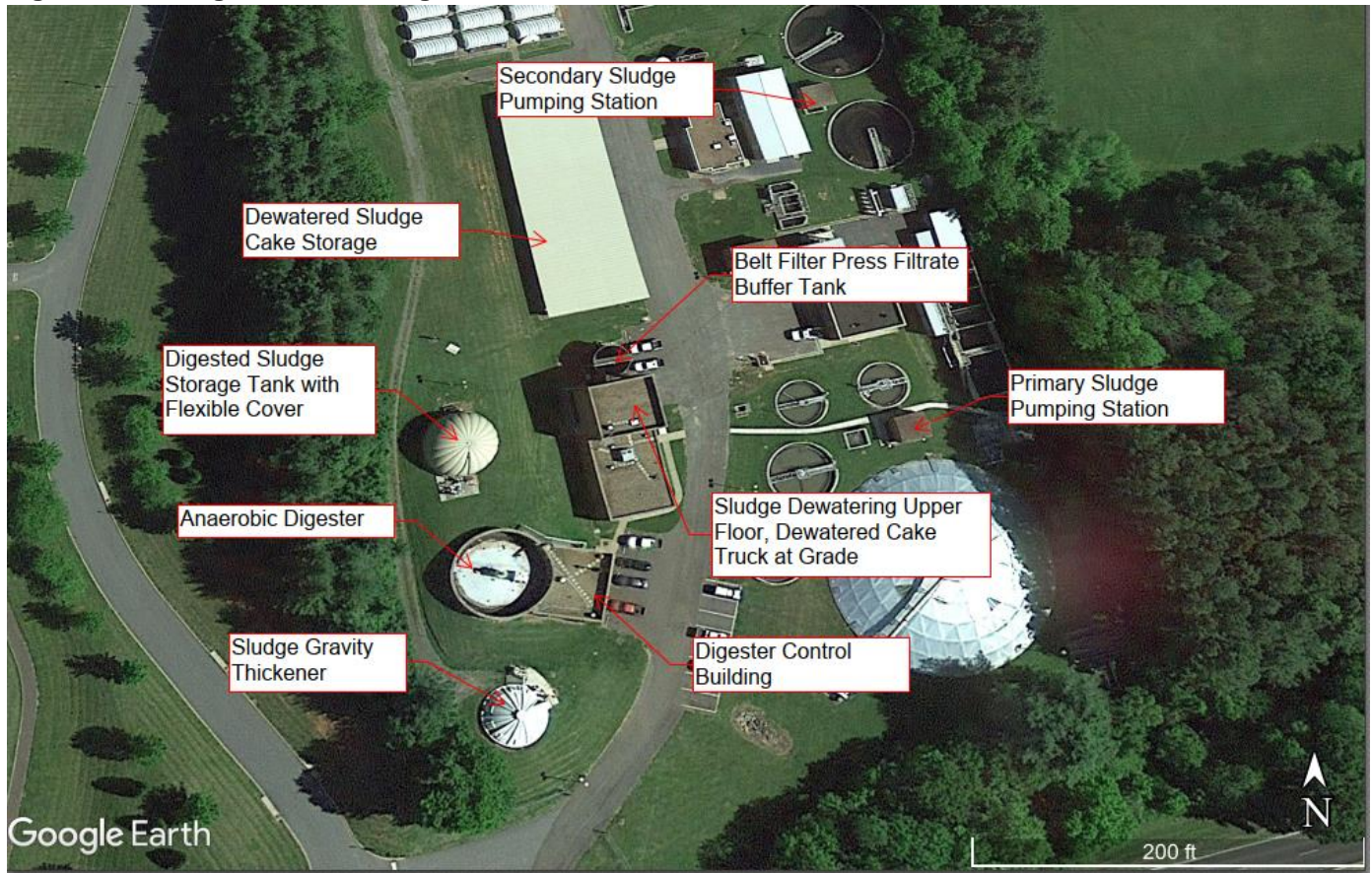
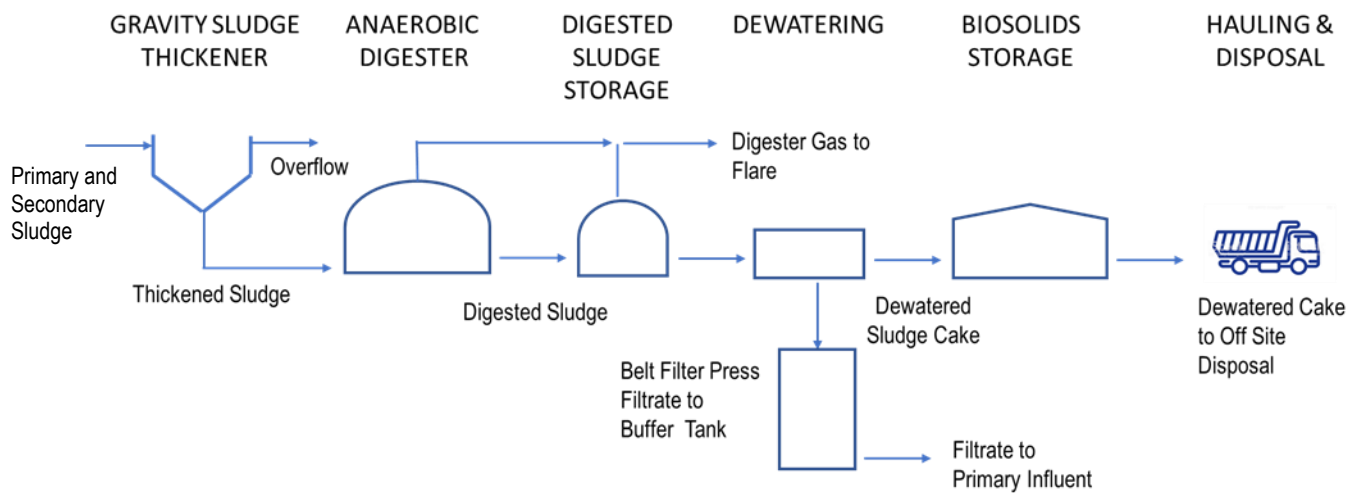


Figure 2: Existing Solids Handling Flow Schematic



Key design information for the solids handling process tankage and equipment is summarized in **Table 2**.

Table 2: Existing Solids Handling Facilities and Equipment

Equipment	Year Installed	Design Parameter	Value
Primary Sludge Wet Well	1989	Volume	3,000 gallons
Primary Sludge Pumps	1989	Flowrate	50 gpm (piston pumps)
Secondary Sludge Wet Well	1989	Volume	3,000 gallons
Secondary Sludge Pumps	1989	Flowrate	50 gpm (piston pumps)
Gravity Thickener	1989	Diameter	28 ft
		Side Water Depth	12 ft
Anaerobic Digester	1989	Diameter	50 ft
		Side Water Depth, Maximum Straight	20 ft
		Maximum Operating Volume	293,000 gallons
		Working Volume, 85%	250,000 gallons
		Cover	Floating
		Mixing	Pearth™ Gas Mixing
		Boiler	Envirex 560,000 BTU/hr
	Heat Exchanger	Tube in Tube with hot water recirculation 42.21 sq ft HEX area	
	Recirculation Pumps (2)	WEMCO Model 3 Size 4 X 3 Recessed Impeller Centrifugal 150 gpm @ 34 ft head	
	Sludge Transfer Pumps - 6 Total: Transfer from GST underflow to Digester (2); Transfer from Digester to Sludge Storage (2); Transfer from Sludge Storage to Belt Filter Press (2)	ITT Marlow Model BE82W Plunger Pump 240 gpm @ 45 ft head	
	Waste Gas Flare	Open style with manual ignition Mounted at grade 6-inch diameter	
Sludge / Gas Holding Tank	1970	Diameter	40 ft
		Side Water Depth	20 ft
		Volume	185,000 gallons
	2010	Cover	Flexible Gas Holding
Belt Filter Press	2012	Belt Width	1 meter
		Hydraulic Capacity, current operation	30-35 gpm
Filtrate Buffer Tank	2000	Volume	30,000 gallons
Dewatered Sludge Storage (covered)	1970	Length, Width	165 ft, 55 ft (8 bays)
		Area	9,330 sq ft

A multidiscipline field visit was conducted in November 2019, including the following tasks:

- Discussing the current operations and condition of the solids processes
- Discussing available power within the WWTP
- Review of major solids equipment Manufacturer's Operations and Maintenance Manuals
- Visually inspection of the solids handling equipment and facilities

Other than the belt filter press, which was replaced in 2012, the solids handling equipment has been in operation for 30 or more years and has exceeded its expected service life. However, with the plant's ongoing maintenance and repairs of the equipment, the majority of the solids handling processes and equipment are generally functioning and operating satisfactorily.

Field Visit Observations – Process Mechanical

Primary sludge flows from the underflow of the four (4) primary clarifiers into a wet well. It is then pumped to the gravity sludge thickener by the primary sludge pumping station. Sludge from the underflow of each the two (2) secondary clarifiers flow through telescoping valves into a wet well. Secondary sludge is then pumped to the gravity sludge thickener by the secondary sludge pumping station. One of the secondary sludge telescoping valves is leaking and needs to be repaired to allow for control of sludge flow from each clarifier.

The gravity sludge thickener is covered with a fiberglass dome. The interior head space is ventilated, and the exhaust is directed through an adjacent activated carbon filter for odor control. The thickener mechanism and bridge are heavily deteriorated, with significant visible metal loss. The Town has budgeted for a planned replacement of the mechanism and access bridge.

The anaerobic digester, piping, valves, gas mixing system, sludge transfer and recirculation pumps, combination boiler/sludge heat exchanger were all in fair condition. Plant operations reported no issues with the process equipment and only expected routine maintenance to be performed.

The sludge valves in the digester control building were reported as very difficult to actuate, which is expected for valves of the tapered plug type and their current age.

A new one-meter belt filter press was installed in 2012 replacing the existing one-meter unit from the 1990 plant upgrade. It is reported to be limited to 25 to 35 gpm sludge feed rate and produces cake with an average of 13-14% dry solids. Feed rates to belt filter presses vary depending on sludge type, solids contents and plant specific conditions, with a typical design feed rate in the range of 30 to 100 gpm for a 1-meter wide belt filter press. Operating near the low end of this range, the plant has made several operational changes in an attempt to improve throughput, but with little success. To keep up with sludge production, the dewatering process is operated between 7 to 10 hours per day, 5 days a week.

Dewatered cake is transferred via a small dump truck to the adjacent covered sludge storage pad that has eight (8) individual bays, each approximately 20' by 55' size. The higher amounts of annual precipitation in recent years has challenged off-site sludge management and disposal. In turn, this has resulted in less frequent cake haul-off and longer on-site sludge cake storage times. Therefore, there is a need to expand the current storage capacity at the plant.

Field Visit Observations – Structural

A structural condition assessment was performed for the existing digester building, control building, sludge storage area, and gravity thickener. This assessment was limited to conditions readily visible on the exterior and interior areas of the facility, and the exterior of the digester and the gravity thickener. The assessment did not include structural observations of the interior of the digester tank or the floating cover. Details of the condition assessment are included in **Appendix A**.

Several minor structural and architectural deficiencies were observed during the site visit. No deficiencies were observed that would be considered critical to the overall structural integrity of these elements. The deficiencies generally fall into one of two categories, (1) issues that could have a negative impact on the operator safety or serviceability of the building or (2) maintenance issues that could continue to worsen over time if observed deficiency is not mitigated or repaired.

Digester Building – Several hairline cracks were observed throughout the structure, including horizontal and vertical cracks in the digester tank walls, cracks in the Upper Level floor, and cracks in the concrete masonry wall. These cracks can generally be efficiently repaired by injecting epoxy adhesive into the cracks. The other primary issue observed for this building is apparent soil erosion of the adjacent grading around the perimeter of the building which has led to a significant change in grading elevation around the perimeter of the building. Brick corbels around the perimeter of the building which should be below grade were exposed to view and a ramp footing that is undermined and almost entirely exposed to view indicate that over a foot of grading elevation may have been lost to erosion around the perimeter of the building.

Control Building – Structural issues observed for this building include rusty brick support lintels, rusty maintenance platforms, and spalled concrete elements. Architectural issues include cracked and spalled façade bricks; rusty downspouts, flashing, louvers, roof hatch hardware and gas pipes; loose handrails; and stained ceiling tiles. Most of these deficiencies would classify as maintenance issues and can be resolved by replacing the deficient item in kind.

Dewatered Sludge Storage Area – The steel members supporting the canopy roof generally have worn-off paint and moderate rust in several locations. In a few locations, section loss was observed for the steel columns, reducing their load-carrying capacity. The existing metal roof deck was observed to be in good condition. The deck did not exhibit the same level of rust as the supporting structure. Personnel at the WWTP indicated that the roof deck had been replaced previously. The biggest issue with this structure is its inadequate roof height and storage capacity. The existing roof height prevents full operation of a CAT 926 Loader (or comparable equipment) within the space. The roof will need to be raised to a minimum clear height of 18 feet for full operation of the loading equipment. The footprint of the storage area will need to be increased to increase its storage capacity. If the width of this area is increased by 15 feet for its entire length, the storage capacity will increase by approximately 25 percent. A new canopy roof structure will be required to increase the roof height and building footprint, and a new concrete retaining wall and slab extensions will be required to increase the building footprint. The new roof structure will likely be pre-engineered metal building framing supporting either a new roof deck or a fabric membrane roof as discussed later in this report.

Gravity Sludge Thickener – The existing gravity thickener structure consists of a fiberglass dome supported by concrete walls supported by a concrete mat foundation. We observed the above-grade exterior of the existing gravity thickener. Since most of the structure is located underground, only a small portion of the

structure was visible and the observed portion of this structure was unremarkable. No deficiencies were observed.

Field Visit Observations – Electrical

Power for the solids handling process equipment at the Warrenton WWTP which is comprised of the Plant Control Building, the Digester Building, both Digesters and the Gravity Sludge Thickener emanates from a 400-amp fused switch in the 480-volt, 3 phase, 3 wire “DS” Switchboard located across the treatment plant site in the RBC Blower Building.

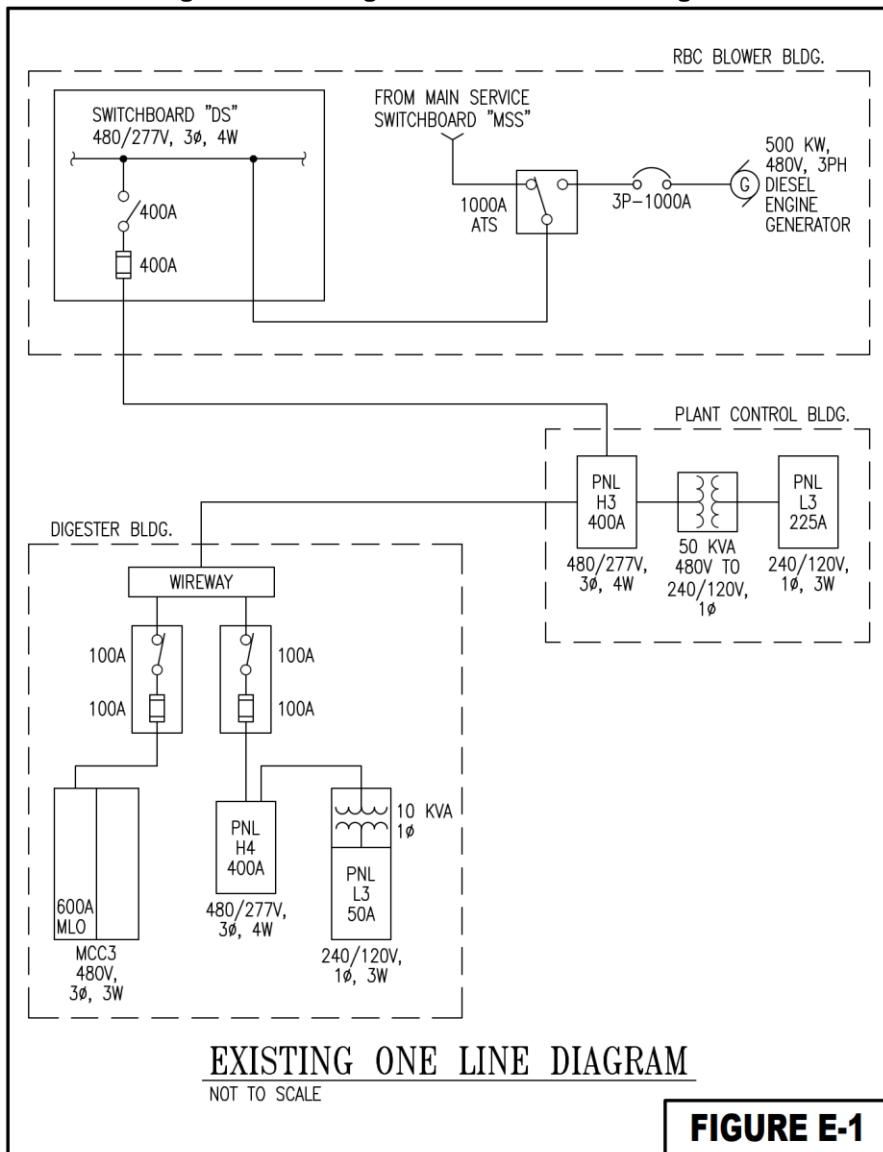
Switchboard “DS” feeds Panel H3, located in the Plant Control Building. Panel H3 is a 480/277-volt, 3 phase – 4 wire General Electric A Series branch circuit breaker panelboard. Panel H3 feeds Panel L3, a 240/120-volt, 1 phase – 3 wire General Electric branch circuit breaker panelboard through a 50 kVA, 480-volt to 240/120-volt, 1 phase dry type transformer. Panel H3 and Panel L3 feed all the electrical loads in the Plant Control Building.

Panel H3 also feeds power to MCC3 and Panel H4, through two 100 amp fused disconnect switches located in the Digester Building. MCC3 is a 480-volt, 3 phase – 3 wire General Electric 8000 Line motor control center and Panel H4 is a 480/277-volt, 3 phase – 4 wire General Electric branch circuit breaker panelboard. Panel H4 feeds Panel L4, a 240/120-volt, 1 phase – 3 wire General Electric branch circuit breaker panelboard through a 10-kVA dry type transformer “Servicenter” mini-unit substation. MCC3, Panel H4 and Panel L4 feed all the electrical loads in the Digester Building and the Gravity Sludge Thickener.

The electrical equipment is original equipment that was installed when the Plant Control Building, Digester, Digester Building and the Gravity Thickener were constructed circa 1987. The electrical equipment is over 30 years old. A general rule of thumb for electrical systems equipment is a life expectancy of 20 to 30 years based on well-maintained equipment. As the electrical equipment has exceeds its life expectancy, replacement parts for equipment become more difficult to find.

The existing electrical equipment, described above, is operating at maximum capacity and is not capable of accepting any new loads. Any additional loads associated with new or expanded solids handling facilities will require new electrical service. Refer to **Figure 3 (E-1)**, Existing One Line Diagram, for existing conditions.

Figure 3: Existing Electrical One-Line Diagram



2.2 Existing Solids Process Operations

The following section reviews the plant’s current solids load and solids process / digestion operations.

The annual average influent flow to the plant for the period from 2014 to 2020 was about 1.9 MGD, as summarized in **Table 3**.

Table 3: Annual Average Plant Influent Flow

Year	Annual Average Inf flow (MGD)
2014	2.0
2015	1.9
2016	1.7
2017	1.7
2018	2.2
2019	2.0
2020	1.9
Average	1.9

The annual average biosolids produced (after digestion and dewatering) for the period from 2010 to 2020 was about 400 dry metric tons per year (based on the plant’s hauling data), as summarized in **Table 4**.

Table 4: Total Annual Biosolids Quantities

Year	Biosolids (Dry Metric Tons)
2010	363
2011	266
2012	379
2013	312
2014	549
2015	343
2016	589
2017	314
2018	555
2019	294
2020	395
Average (2015-2020)	408

In review of the in-plant operating data, there is considerable variability in sampling and analyzing percent solids in the solids processes (thickening and digestion processes). However, since the quantities of final cake solids are typically more representative of the solids produced at a WWTP the data in **Table 4** will be used as the basis for estimating the solids loadings through the plant.

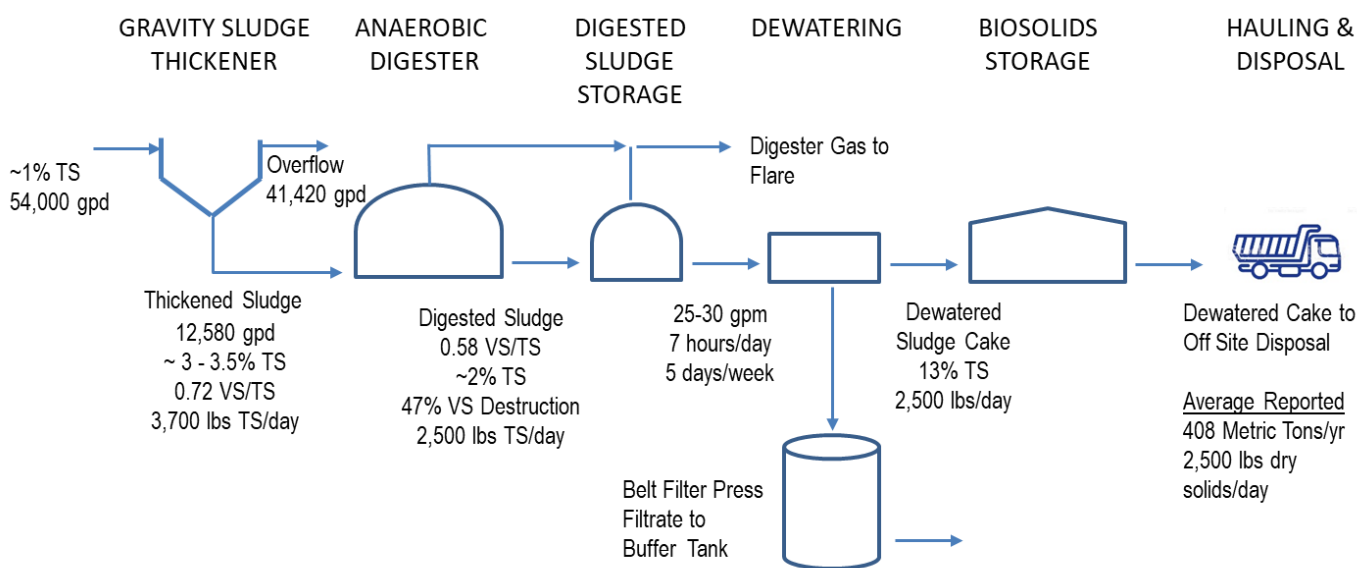
The estimated solids loading to the thickening and digestion processes considers the volatile solids (VS) reduction in the digester. **Table 5** summarizes the sludge feed and VS reduction data for 2018-2019.

Table 5: Recent Solids Digestion Values

Year	Units	Average Value 2018-2019
Digester Average Feed Volume	gallons per day	12,580
Digester Feed Volatile Solids	% VS	72
Digested Sludge Volatile Solids	% VS	58
% Volatile Solids Reduction	% VS Reduction	47

Based on the values in **Tables 4** and **5** the loading through the solids handling processes is shown in **Figure 4**, representing current operations.

Figure 4: Recent Average Solids Loading



Gravity Sludge Thickener (GST) Performance

Based on the solids loadings in **Figure 2**, the existing gravity sludge thickener loading was reviewed. Typical gravity sludge thickener (GST) design loading when thickening co-mingled primary sludge and rotating biological contactor (RBC) waste sludge are shown in **Table 6**, along with the recent GST loading.

Table 6: Typical and Recent Gravity Sludge Thickener (GST) Loading

Parameter	Typical Values ¹	Current (1.9 MGD)
Solids Loading (lbs TS / sq ft / day)	10 – 15	6
Hydraulic Loading (gpd / sq ft / day)	150 – 300	72 ²
Thickened Solids	3 – 5% ³	~3%

¹ WEF MOP-8 Design of Water Resource Recovery Facilities, 6th Edition

² Average loading based on daily total flow; loading during sludge pumping rates, when either primary or secondary (or both) sludges are pumped intermittently to the GST, is 115 – 230 gpd/sf

³ Based on co-mingled primary/secondary sludge GST performance

As can be seen in **Table 6**, the existing GST loading is below typical design range. The GST performance in thickening the sludge (at about 3%) is consistent with the observed loading.

Typically, GSTs use diluting water and/or an oxidant (commonly chlorine) to improve the performance of the GST and increase the volume of thickened sludge held in the GST i.e. increase the solids retention time, by keeping the sludge from becoming septic and gasifying. Warrenton is not utilizing diluting water nor an oxidant in the GST influent. A metal salt (alum, ferric or PACI), as well as polymer, can also be added to improve settling and solids underflow concentration.

Table 7 shows the current and projected GST solids loading as the plant flows reach the permitted capacity (2.5 MGD), and at plant expansions to 3.0 MGD and 3.5 MGD, respectively. The projected feed solids values (lbs/day) shown in the first row of Table 7 assumes a flow-proportional increase in solids quantities over the recent average solids production at the plant (based on about 1.9-2.0 MGD ADF).

Table 7: Projected GST Loadings

Parameter	Annual Average Daily Influent Flow (MGD)			
	Current (1.9)	2.5	3.0	3.5
Total Feed Solids (lbs total solids / day)	3,700	4,900 ¹	5,900 ¹	6,900 ¹
GST Volumetric Feed Rate ² (gpd)	45,000	59,000	70,500	82,700
Solids Loading (lbs TS / sq ft / day)	6	8	9.5	12
Hydraulic Loading ² (gpd / sq ft)	72 (115 – 230)	96 (150 – 300)	115 (180 – 360)	134 (210 – 410)

¹ Proportional to plant flows from current solids at an AAF of 1.9 MGD

² Using annual avg 1% combined total solids feed to the GST; values in () are during intermittent sludge pumping to GST



Although the plant experiences some difficulty with the current GST performance (excess solids in the GST overflow to plant recycle, i.e. low solids capture, as well as more dilute underflow than desired), **Table 7** indicates the existing GST would be appropriately sized (in terms of diameter and sidewater depth) for the projected solids production up to 3.5 MGD based on the loading criteria in **Table 6**. Additionally, a thickened underflow solids performance of ~3 % is reasonable to expect at the current and projected solids loading rates given a blended primary and secondary sludge. To maintain, or slightly improve, the GST performance, dilution water should be considered. Typically, a total hydraulic loading rate (sludge flow + dilution water) should be about 200 gpd/sf, thus at current loadings, the dilution water rate should be around 50 gpm but can be decreased as the sludge flows increase. To raise the thickened sludge underflow concentration reliably above 3-4%, mechanical thickening technology would be required (gravity belt; centrifuge; rotary drum screen).

Digester Performance

Digester volume requirements are based on volatile solids loading (solids applied per unit volume) and solids retention time (SRT) in the digester. Typical “high rate” anaerobic digester loading criteria and the current loadings are included in **Table 8**. “High rate” operation assumes sufficient digester heating (mesophilic temperature range) is maintained and complete mixing is provided.

Table 8: Typical and Recent Digester Loading

Parameter	Typical Values ¹	Current (1.9 MGD)
Digester Design Loading (lbs VS / cu ft / day)	0.12 – 0.16	0.08
Digester Solids (Hydraulic) Retention Time (days)	15 – 20	19.8

¹WEF MOP-8 Design of Water Resource Recovery Facilities, 6th Edition

Table 8 indicates that the digester volatile solids loading is currently lightly loaded, and a solids retention time (SRT) of about 20 days. The plant must comply with Class B biosolids requirements. This includes treatment through anaerobic digestion (PSRP process), maintaining minimum 15 days SRT; and vector attraction reduction through minimum 38% volatile solids reduction. These requirements are met under the current operating conditions. The digester SRT is directly affected by the percent solids of the thickened feed sludge to the digester: to increase the digester SRT, the sludge flow rate needs to be reduced by increasing the percent solids, i.e., improve thickening performance.

Table 9 shows the projected solids loading to the existing digester as the plant flows reach the permitted capacity (2.5 MGD), and at plant expansions to 3.0 MGD and 3.5 MGD, respectively. Similar to **Table 7** for the GST, the total feed solids values (lbs/day) shown in the first row of **Table 9** assumes a flow-proportional increase in solids quantities over the recent average solids production at the plant (based on about 1.9-2.0 MGD ADF).

Table 9: Projected Digester Loadings w/Existing Digester

Parameter	Annual Average Daily Influent Flow (MGD)			
	Current (1.9)	2.5	3.0	3.5
Total Feed Solids ¹ (lbs total solids / day)	3,700	4,900	5,900	6,900
Volatile Feed Solids (lbs VS / day)	2,600	3,500	4,200	4,900
Digester Volumetric Feed Rate ² (gallons per day)	14,700	19,600	23,500	27,400
Digester Solids Loading (lbs VS / cu ft / day)	0.08	0.11	0.13	0.15
Digester Solids (Hydraulic) Retention Time (days)	17	13	11	9

¹ Proportional to plant flows from current solids at an AAF of 1.9 MGD

² Using annual average 3% total solids in the thickened sludge feed to digester

From **Table 9** the existing digester volatile solids loading would remain within a typical design range up to a plant design flow of 3.5 MGD; however, the SRT would be well below the 15-day minimum requirement. Also, as flows approach the current permitted design of 2.5 MGD the SRT would likely be close to, or below, 15 days. As mentioned above, the digester SRT could be increased by improving sludge thickening, or additional digester volume could be provided. This is discussed further in **Section 3**.

Sludge Dewatering Performance

Digested sludge is transferred and stored in the sludge holding tank (“secondary digester”) before dewatering. A new 1-meter belt filter press was installed in 2012 to replace the previous unit. While the expected sludge flow to the new press was in the range of 50-100 gpm, the plant has not been able to feed more than about 30 gpm without compromising on the final cake dryness. Currently, the belt filter press is operated 7-10 hours per day, 5 days per week. As plant flows increase and additional digested solids have to be dewatered, the dewatering operations will need to go to two (2) full shifts, and/or operate on weekends. At a plant expansion to 3.0 MGD and 3.5 MGD, the Town may consider upgrading to a 2-meter belt filter press to increase throughput capacity and reduce the operating time.

3 SOLIDS HANDLING UPGRADE EVALUATIONS

Near-term and future upgrades to the solids handling facilities are discussed in this Section.

3.1 Gravity Sludge Thickening

From **Section 2**, the existing GST was found to be performing as expected and is appropriately sized for solids loading projections up to 3.5 MGD. However, the plant has recently experienced difficulty in settling the sludge in the GST resulting in diluted sludge to the digester and causing excessive carry-over solids in the GST overflow. This reduces the solids capture and results in increased levels of in-plant solids recycle. This in turn has caused poor settling in the primary clarifiers and thus exacerbating the problem. The plant has started to add polymer to primary clarifiers and the GST influent and is considering also adding metal salt (PACI).

There is significant buildup of floatable debris which blinds the overflow weirs and traps solids. On a quarterly basis the cover is removed, and the debris is cleaned out (contract operation). Improving the influent screening could alleviate some of this and sludge screening (both primary and secondary sludges) is another option. The sludge screen would be housed in an adjacent building and tie into the GST sludge feed line. Example of sludge screen equipment is included in **Appendix B**. Currently the primary and secondary sludges are pumped intermittently to the GST. Ideally, the sludges would be blended and then pumped at a constant rate continuously to the GST. At the future plant expansion new primary clarifiers would replace the existing four (4) units and one of the existing units could be converted to a sludge blending and holding tank.

Due to its age and the plant's operating experience, the GST needs a complete refurbishment including replacement of the sludge collection mechanism, center access bridge, cover, and concrete repairs, where needed. The ability to add dilution water should be considered, as well as provisions for chlorine addition. The Town has recently issued a construction contract to perform this work and should be completed in 2023.

3.2 Sludge Thickening and Digestion

As shown in the previous **Table 8**, the digester solids retention time (SRT) is estimated at 20 days at the current solids loading based on the current average plant flow of about 1.9 MGD, which provides for reliable operation for Class B sludge stabilization. As plant flows gradually approach the permitted average design flow of 2.5 MGD, the solids loading and sludge flow to the digester will increase. As a result, the SRT in the existing digester will decrease and will likely be below the minimum 15 days required by the permit for Class B anaerobic digestion. For a plant expansion scenario to 3.0 MGD and above, the SRT in the existing digester will be inadequate (10 days or less, per **Table 9**).

There are two options to increase the digester SRT:

- Reduce the sludge flow rate (volume) by increasing the thickened sludge underflow % solids
- Provide additional digester volume

Sludge Thickening: As discussed in **Section 2**, the existing GST appears to be performing as well as comparable GSTs that thicken co-mingled primary and secondary sludges, producing about 3% underflow total solids (TS). Based on the size of the existing GST, the solids and hydraulic loadings both at current operations and even under future expansion scenarios, are within typical design ranges (**Tables 6 and 7**). The existing GST performance could be improved step wise, possibly achieving 4% TS in the thickened solids, by adding diluting water and possibly chlorine.

Also, adding diluting water and/or chlorine could reduce the overflow solids in the GST, thereby reducing the solids that recycle through the plant. If 3.5 to 4% thickened sludge can be achieved, the minimum SRT of 15 days could be met in the existing digester at the permitted design flow of 2.5 MGD. However, thickening to 4% TS would not be sufficient to meet the minimum 15 days SRT in the existing digester at projected solids loadings above 3.0 MGD. At least 5% and 6% TS thickened sludge would be needed to provide only marginally more than 15 days of SRT in the existing digester at 3.0 MGD and 3.5 MGD, respectively. Thickening the sludge to an average of 6% TS could be problematic for the existing digester gas mixing system.

To reliably improve thickened solids above 4% TS, mechanical sludge thickening would be needed along with chemical (polymer) conditioning. Gravity belt thickeners (GBT) and rotating drum thickeners (RDT) are two mechanical thickeners that could produce 5-6% TS thickened sludge with blended primary and secondary sludges, and likewise for a centrifuge. Examples of sludge thickening equipment (GBT and RDT) is included in **Appendix B**.

The main advantage of mechanical thickening over a GST is more reliable thickening performance at higher percent solids. Disadvantages of mechanical thickening are higher cost (building, thickening equipment, pumps, chemicals, maintenance); and more operator attention. Another disadvantage is the need for sludge holding before and after thickening since the thickening equipment is typically not operated continuously, unlike a GST.

In general, conversion to mechanical thickening at Warrenton WWTP would require:

- Removal of the existing GST
- Redundant mechanical thickening units installed inside a new thickener building along with a polymer storage and feed system, and the necessary feed and transfer pumps
- A sludge holding tank to hold primary and secondary sludges when the thickener is not operating. Typically, the sludge holding tank would provide 2-3 days of holding capacity
- A thickened sludge holding tank to buffer the feed to the digester. Typically, the thickened sludge tank would provide 1-2 days of holding capacity

Additional Digestion: Alternatively, additional digester volume could be provided with the current sludge thickening process. This would leave the existing GST in operation, possibly with the addition of diluting water and chlorine to the GST influent, as well as the needed equipment replacements due to its current condition. The existing digested sludge holding tank ("secondary digester"), although it has a smaller volume, could be converted to a primary digester and upgraded with heating and mixing equipment. But adding a second primary anaerobic digester (similar size to the existing digester), and keeping the existing holding tank, would be preferred.

Table 10 shows the total digester loadings with a new second digester, similar in size to the existing, at the design permitted flow of 2.5 MGD and at plant expansions to 3.0 MGD and 3.5 MGD.

Table 10: Projected Warrenton WWTP Digester Loadings with Second Primary Digester

Parameter	Annual Average Daily Influent Flow (MGD)		
	2.5	3.0	3.5
Total Feed Solids ¹ (lbs total solids / day)	4,900	5,900	6,900
Volatile Feed Solids (lbs VS / day)	3,500	4,200	4,900
Digester Volumetric Feed Rate ² (gallons per day)	19,600	23,500	27,400
Digester Solids Loading (lbs VS / cu ft / day)	0.05	0.06	0.07
Digester Solids (Hydraulic) Retention Time (days)	25	21	18

¹ Proportional to plant flows from current solids at an AAF of 1.89 MGD

² Using annual average 3% total solids in thickened feed to digester

With the addition of a second 50-foot diameter primary anaerobic digester, **Table 10** indicates there would be enough digester SRT at the current thickened sludge concentration of about 3%, i.e. using the existing GST. From a long-term planning standpoint having a second digester provides more operational flexibility, redundancy, and robust capacity, without having to build new sludge thickening facilities, or push higher thickening performance that may not be reliable. The cost for a new digester with control building would be comparable to building new mechanical sludge thickening facilities that include thickening equipment and control building, sludge pumps, chemical feed, and sludge holding tankage.

3.3 Sludge Dewatering

The existing sludge dewatering belt filter press (BFP) is relatively new. Typical belt filter press design information and recent BFP performance are summarized in **Table 11**.

Table 11: BFP Design and Recent Performance

Parameter	Design Range	Current Operation
Effective Belt Width	1 - 3 meter	1 meter
Average Volumetric Feed Rate to BFP	30 - 100 gpm	30 gpm
Average Dry Solids throughput for BFP	300 - 800 lbs / hr / m	240 lbs / hr / m
Average Solids in BFP Feed	1 - 6% (depending on sludge type and thickening process)	1.6%
Average Daily Volume Feed to BFP	varies	12,600 gpd
Number of Hours Operated per Week	varies	50 hrs (10 hrs/day, 5 days /wk)
Dewatered Cake Solids	12 - 20% (depending on sludge type)	13-14%

Based on the recent BFP performance and the projected sludge volumes, **Table 12** includes the projected number of operating hours for the BFP up to a plant design capacity of 3.5 MGD.

Table 12: BFP Dewatering Projected Operating Hours

Parameter	Annual Average Daily Influent Flow (MGD)		
	2.5	3.0	3.5
Average Volumetric Feed Rate to BFP	30 gpm	30 gpm	30 gpm
Average Volume Feed to BFP	19,600 gpd	23,500 gpd	27,400 gpd
Number of Hours Operated per week	76	91	107
Number of Hours Operated per Day @ 5 days per week	16	19	22

At the current permitted design flow of 2.5 MGD, the BFP is expected to operate two (2) full shifts, 5 days per week. At 3.0 MGD and 3.5 MGD, the 1-meter BFP would operate almost continuously for 5 days per week. It is recommended at that time, or sooner if desired, to replace the existing belt filter press with a higher capacity (2-meter) unit to reduce the operating time. Alternatively, a dewatering screw press may be considered in replacing the BFP. The screw press is fully enclosed and has a compact footprint that would fit in the existing dewatering room. It also produces a dryer cake, from 18-24%, which would reduce the area required for cake storage and hauling costs. Technical information sheets for a typical dewatering screw press are included in **Appendix B**.

3.4 Dewatered Sludge Storage

Dewatered sludge cake is transferred to the sludge storage area before the cake is periodically hauled off site via third party contract operations. The existing storage area consists of an open-air rectangular structure with a mono slope canopy roof over a slab-on-ground area separated into 8 approximately equal bays by a series of short concrete walls. Each bay is approximately 20 ft wide and 60 ft long. The canopy roof is a steel deck supported by open-web steel joists and steel beams and columns. The columns bear on steel base plates with column bases set on top of the short concrete walls.

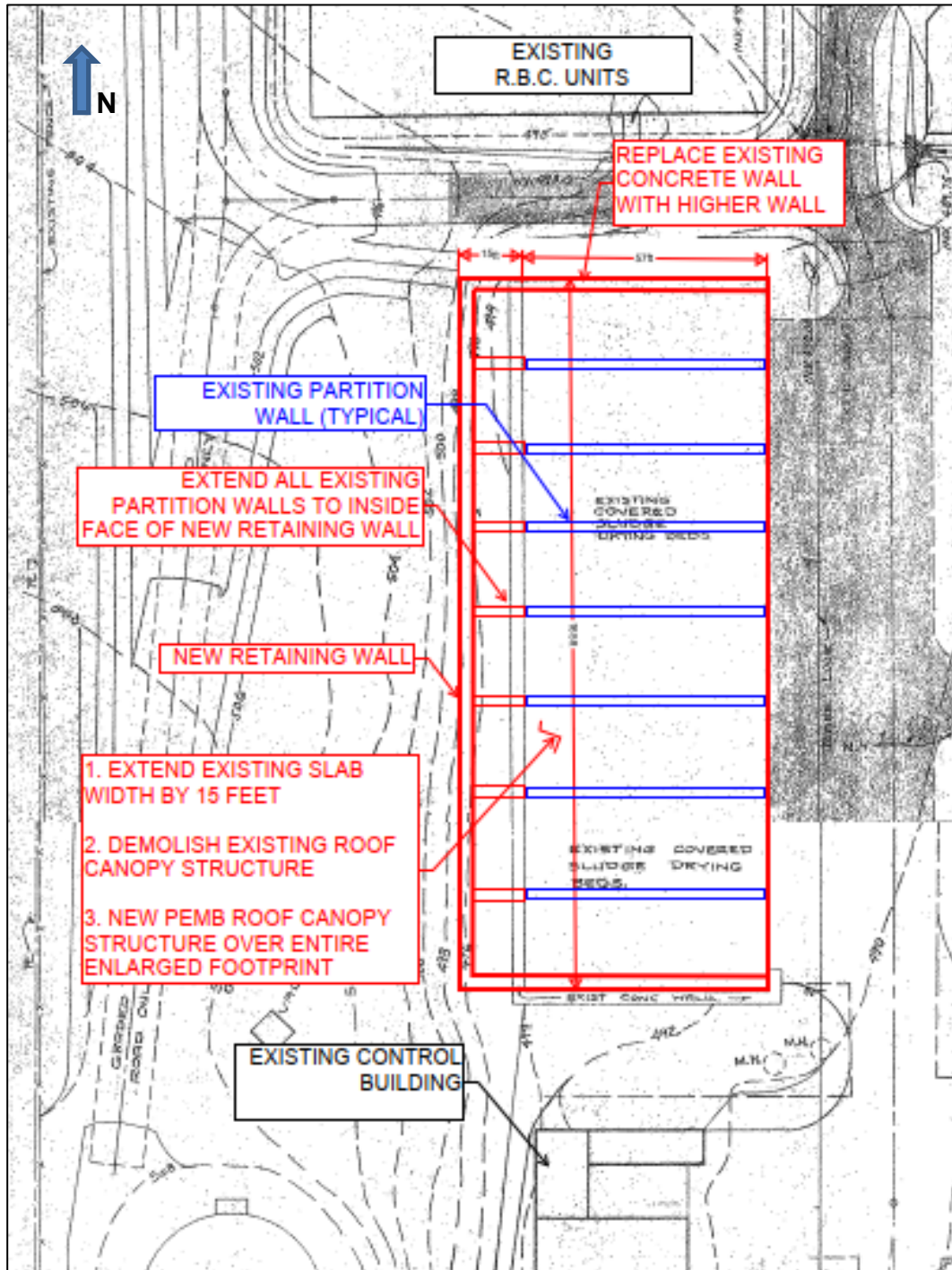
The existing floor slab area is approximately 9,330 square feet on a soil-supported slab-on-ground with perforations throughout the slab to allow drainage. The roof support column grid consists of 8 equal bays of approximate 20'-6" length each in the structure's long direction, and 3 equal bays of approximate 18'-4" length in the short direction.

The existing steel framing supporting the roof was observed to be in poor condition. Steel members generally have worn-off paint, and moderate rust was observed in several locations. In a few locations, section loss was observed for the steel columns, reducing their load-carrying capacity. The existing metal roof deck was observed to be in good condition. The roof deck appeared to be newer than the structural framing, and is understood to have been replaced, though the approximate date of replacement is not known.

There is a need to raise the roof to allow full access of equipment to load and unload the sludge. The current clear roof height is inadequate for full access and operation of the equipment. The plant uses a Caterpillar 926 wheel loader, or comparable equipment, within this space. This type of loader has a maximum height of 15.5 feet to the top of the bucket; therefore, the new roof will need to have a minimum clearance of 18 feet above the slab-on-ground to allow for all working conditions.

There is also a need to increase the sludge cake storage capacity by increasing the structure footprint. The existing sludge storage area is bounded by the existing plant road to its east, the existing control building to its south, and the R.B.C. treatment units to its north. Therefore, the most practical direction to expand the structure footprint is to the west, which abuts to an earthen hill and an existing gravel access road approximately 60 feet beyond the limits of the existing storage area. The width of the storage pad could reasonably be increased by 15 feet along its entire length, which would increase the overall storage capacity of the area by 20-25 percent. A new retaining wall along the entire west face of the storage area would be required to retain soil from the existing hill. The perforated slab-on-ground and the knee-walls separating the sludge bays would need to be extended to the new footprint. The retaining wall would serve as the new back wall of the sludge storage area. **Figure 5** illustrates the existing storage area and the proposed footprint expansion. Once the new MBBR treatment process is online, the existing adjacent RBC tankage will be abandoned. This would allow for one or two additional sludge storage bays to be constructed to the north.

Figure 5 : Existing Sludge Storage Area Site Plan and Proposed Modifications



It is not practical to reuse any part of the existing structural frame due to the condition of the existing framing, the unknown load capacity of the existing framing members, and the cost and complexity associated with adding column splices to raise an existing in-place roof and adding members to increase the canopy footprint. While the existing roof deck is generally in good condition, it is also not practical to attempt to reuse the roof deck.

The new canopy roof system will be supported by vertical columns that will likely be placed on their own new piers and footings, rather than setting the columns on the existing walls as they are currently. It would be difficult to get the bearing connection of the new column on the existing walls to work structurally, especially without base building drawings for the original walls. The canopy roof overhang dimensions should be extended to account for the increased height to prevent precipitation from reaching the sludge storage slab at an angle. Also, it is feasible and recommended to clear span the roof framing structure across the entire sludge storage area in the short direction to eliminate all interior columns within the space. This will increase maneuverability of the vehicles within the sludge storage area and prevent accidental impacts of the vehicles to the columns. Several replacement roof framing systems may be considered: a pre-engineered metal building (PEMB) system; a canvas-type roof structure, and conventional steel framing.

Pre-engineered metal building (PEMB) framing – PEMB's are often the most efficient systems for simple structures that have a rectangular footprint and a column grid with uniform spacing. PEMB framing members are designed to be optimized by using elements such as tapered columns in which the column cross-section changes along the length of the member where additional strength is needed. Members are designed to be optimized to be as close to the minimum sizes and material weights as possible while still meeting code requirements for strength and specified serviceability requirements. Another benefit of this system for this application is PEMB manufacturers perform their own engineered designs for their structures. The A/E structural engineer would design the new retaining wall, slab extension, and foundation elements supporting the PEMB columns. Although PEMB's typically use metal roof decks, the PEMB manufacturer may not permit the existing deck to be reused for their system or may not warranty the system if the existing deck is reused. Therefore, it is recommended to use new deck supplied by the PEMB manufacturer for the entire roof canopy. A traditional PEMB supplier for American Buildings, Whitener & Jackson, quoted a rough order of magnitude price of \$250,000 for a 10,000 square foot roof canopy. By extrapolating the quote to account for the roof canopy footprint increase to approximately 12,500 square feet, the cost is estimated to be over \$300,000.

Canvas-type roof structure – Similar to the PEMB option, canvas-type roof structures are often an economical choice for simple structures. This system differs from the other two options by using a fabric roof membrane rather than a metal roof deck. The structure typically consists of a series of I-shaped beams or truss-type frames designed to clear span across the space with bridging members between the frames. To maintain the simple monoslope roof layout similar to the existing roof, a series of frames comprised of I-shaped beams similar to the PEMB layout would be used. Therefore, the only major difference between this system and the PEMB is the use of a fabric membrane instead of the metal deck. Manufacturers of this product such as ClearSpan can work with a third-party engineer to produce stamped engineered drawings for the project. Again, the A/E structural engineer would design the new retaining wall, slab extension, and foundation elements supporting the PEMB columns. ClearSpan quoted a rough order of magnitude price of about \$300,000 for a 10,000 square foot roof canopy, or about \$370,000 to account for the roof canopy footprint increase to approximately 12,500 square feet.

Conventional steel framing – This system would be similar to the system currently in place. The roof would be a metal deck supported by open-web steel joists and structural steel beams on steel columns bearing on existing concrete stub walls. Typically, these members are selected from a catalog of pre-defined shapes and are not tapered; therefore, the material usage is not as efficient as that of the PEMB's. Typically, framing is designed by a third-party engineer and supplied by a steel fabricator. Since the steel shapes would not be as efficient as those designed by the PEMB or canvas-type roof structure to achieve the same structure, this option is not recommended.

All three roof framing options are viable solutions to increase the height of the roof over the sludge storage area. The pre-engineered metal building (PEMB) solution is the recommended option because it is anticipated to have the lowest cost of the three options and because mono slope canopy roofs for rectangular footprints is a common application for this system.

The heights of the perimeter walls along the sides and rear elevation of the sludge storage area should also be increased. The higher walls will keep the sludge in the storage area and will protect the sludge from the elements. Currently the concrete walls extend approximately 2'-6" above the ground-floor slab. Higher walls are currently created using loose-laid wood boards between small wide-flange steel posts. The required height of the side walls will be defined by the maximum desired height of the sludge piles. The required height of the back wall will be defined by the grade of the retained soil. Since the higher walls will be subject to greater lateral loads from wind forces and pressure from sludge piled against the walls, the best solution would be to demolish the existing perimeter walls and foundations and to build new walls and wall footings specifically designed for the new loads.

Alternatively, height could potentially be added to existing side walls by adding cast-in-place concrete or concrete masonry units (CMU) on top of the existing concrete walls. The existing concrete walls are typically 8 inches wide, so stacking 8" CMU on the concrete walls could be an effective and cost-efficient option if wall height will only increase by a few feet. However, the existing walls and their foundations would need to be structurally analyzed and possibly reinforced for the increased lateral forces from wind forces and lateral pressure from the higher sludge piles. If existing drawings for the sludge storage area are not available, then cost of testing required to determine existing conditions to justify re-use of the existing short walls and the cost of reinforcing the existing structure (if required) may be more expensive and time-consuming than simply building new walls.

3.5 Biosolids Management and Disposal

The current anaerobic digestion process at Warrenton WWTP is permitted as an EPA 503 Process to Significantly Reduce Pathogens (PSRP) that produces Class B biosolids for land application, with the requirement that the sludge in the anaerobic digester is held for at least 15 days (pathogen reduction) and achieving at least 38% volatile solids reduction (vector attraction reduction).

State biosolids regulations are likely to become more stringent in the future. There may be more reporting requirements, a higher quality of biosolids required for land application, reductions in land application rates, and restrictions on land available for application. With potentially more stringent biosolids disposal regulations in the future, the flexibility to produce Class A biosolids should be considered. Class A biosolids will have fewer restrictions on where they can be land applied. Allowable disposal areas include publicly accessible and residential lands.

To achieve Class A quality, the biosolids must undergo one of the EPA 503 approved treatment Processes to Further Reduce Pathogen (PFRP) levels. While there are advanced digestion and pre-treatment alternatives that can achieve Class A, one of the common methods involves heat drying the (anaerobically digested) dewatered cake to greater than 90% dry solids. Heat drying will also reduce on-site storage requirements and transportation costs. Even though significant energy (from natural or digester gas) will be required, an evaluation including cost savings in disposal, i.e., through beneficial reuse compared to landfilling, could show benefits in Class A heat drying.

The higher the percent solids in the dewatered cake, the less heat energy that must be used to dry the cake. In fact, the capital and higher operating costs of new dewatering equipment can potentially be fully offset by subsequent fuel savings in the heat drying operation. Therefore, it is common to dewater sludge using centrifuges to increase the dewatered sludge solids. The centrifuge would replace the existing belt filter press in a future scenario.

There are several sludge dryers available, generally categorized into a direct and indirect type. The direct type dryer passes the hot combustion gases across the sludge in a low oxygen environment. The indirect type dryer separates the heating medium e.g. heat transfer oil, from the sludge. Indirect dryers are generally less efficient than direct dryers but have a better safety record than direct dryers.

A paddle type dryer, depicted on **Figure 6**, is an indirect dryer that would be appropriate for Warrenton WWTP. A heat transfer oil would be heated in a natural gas fired boiler, and the hot oil would be circulated through the hollow paddle mixer elements. The paddles rotate to mix the sludge, improving heat transfer characteristics, and to transport the sludge through the dryer. Dried biosolids would be conveyed to and stored on-site under cover before off-site hauling.

Figure 6: Paddle Type Indirect Sludge Heat Dryer



Komline-Sanderson Paddle Dryer

The dryer would be housed in a building adjacent to the dewatering process. Part of the existing sludge storage facility could be removed to make room for the heat drying facility since less storage area would be required for the dried cake. A heat drying facility could be implemented through a turn-key project where a third-party entity would design, build and operate the facility for a given contract period, say 20 years. The plant would still operate the anaerobic digester(s) with the flexibility to produce both Class B and Class A biosolids.

3.6 Electrical Service Improvements

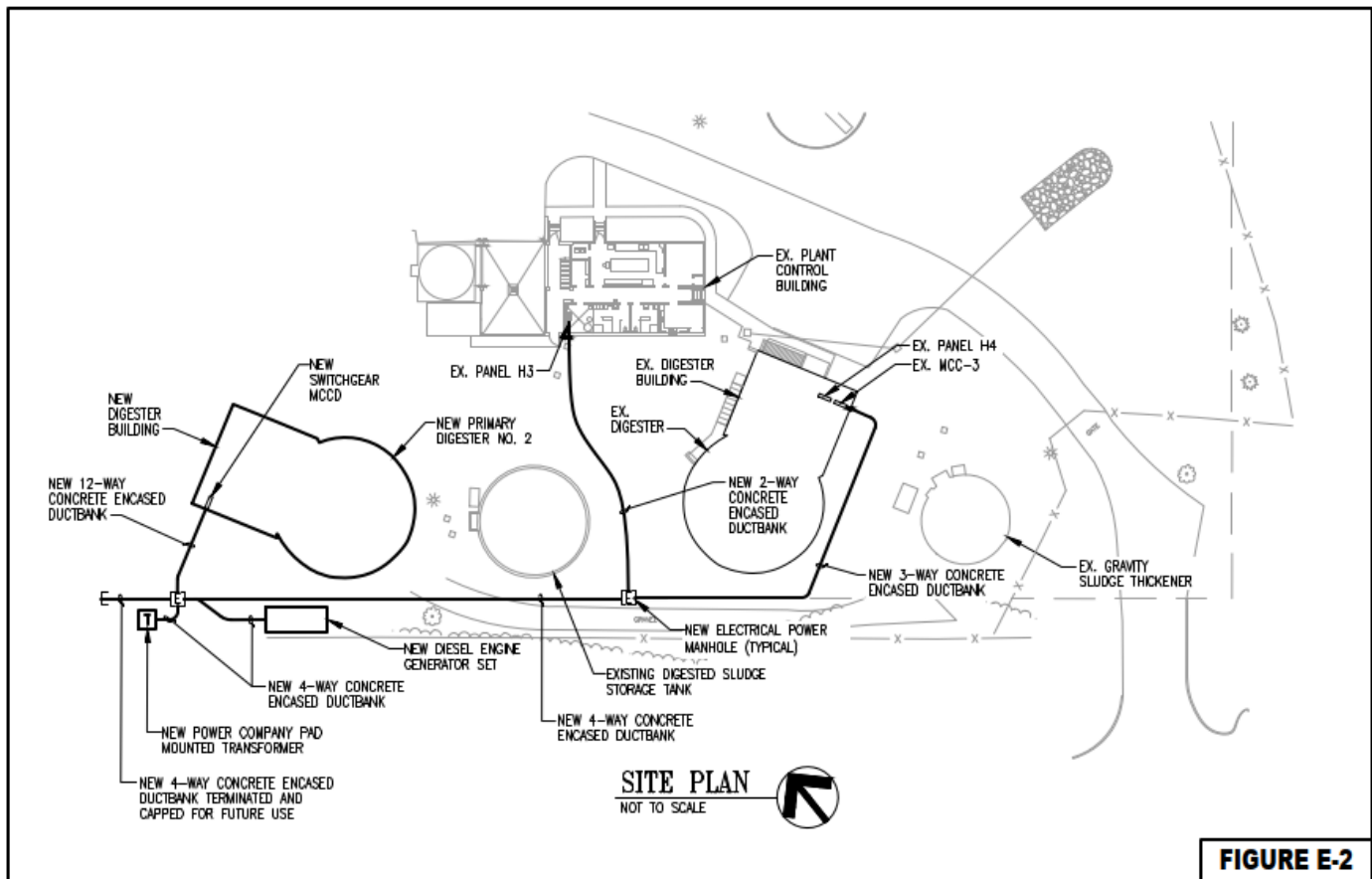
Since it is not feasible to add the new sludge processing equipment loads to the existing electrical distribution system, a new service will have to be extended to the treatment plant if a new digester facility is added in a future plant expansion scenario. This service should be sized sufficiently to provide power to the new process equipment loads as well as the existing solids handling process equipment loads and with some spare capacity for other future loads.

The nearest point of primary service appears to be located on Waterloo Road, to the north of the treatment plant site. From the Waterloo Road location, Dominion Power overhead primary service conductors would follow the treatment plant west property line to a power company pad mounted transformer located in the vicinity west of a future new digester building. This will need to be confirmed with Dominion Power. From the pad mounted transformer, 480/277-

volt, 3 phase secondary service conductors would be run underground in a concrete encased ductbank and manhole system to a 3,200-amp rated main circuit breaker switchgear located in the electrical room of the future digester building. It is anticipated that a new diesel-engine generator set will provide back-up power for the future solids handling facilities.

Refer to the electrical site layout on **Figure 7 (E-2)**, for facility and equipment locations.

Figure 7: Electrical Site Plan



The Switchgear will be equipped with electrically operated, draw-out type main and feeder circuit breakers. The normal service main circuit breaker and the backup power main circuit breakers will be electrically interlocked to prevent them from both being closed at the same time. The automatic throw-over scheme between the normal power and the backup power circuit breakers will be controlled by a programmable logic controller (PLC). In addition to opening and closing the normal and backup power circuit breakers, the PLC will also initiate the starting and stopping of the diesel engine generator. The PLC will have a battery backup battery uninterruptable power supply (UPS) to keep the PLC powered at all times. Protective relays, such as; under voltage, over voltage, lock-out, etc. will be part of the switchgear automatic throw-over scheme. A surge protective device, power meter and a touch screen HMI will also be included as part of the switchgear.

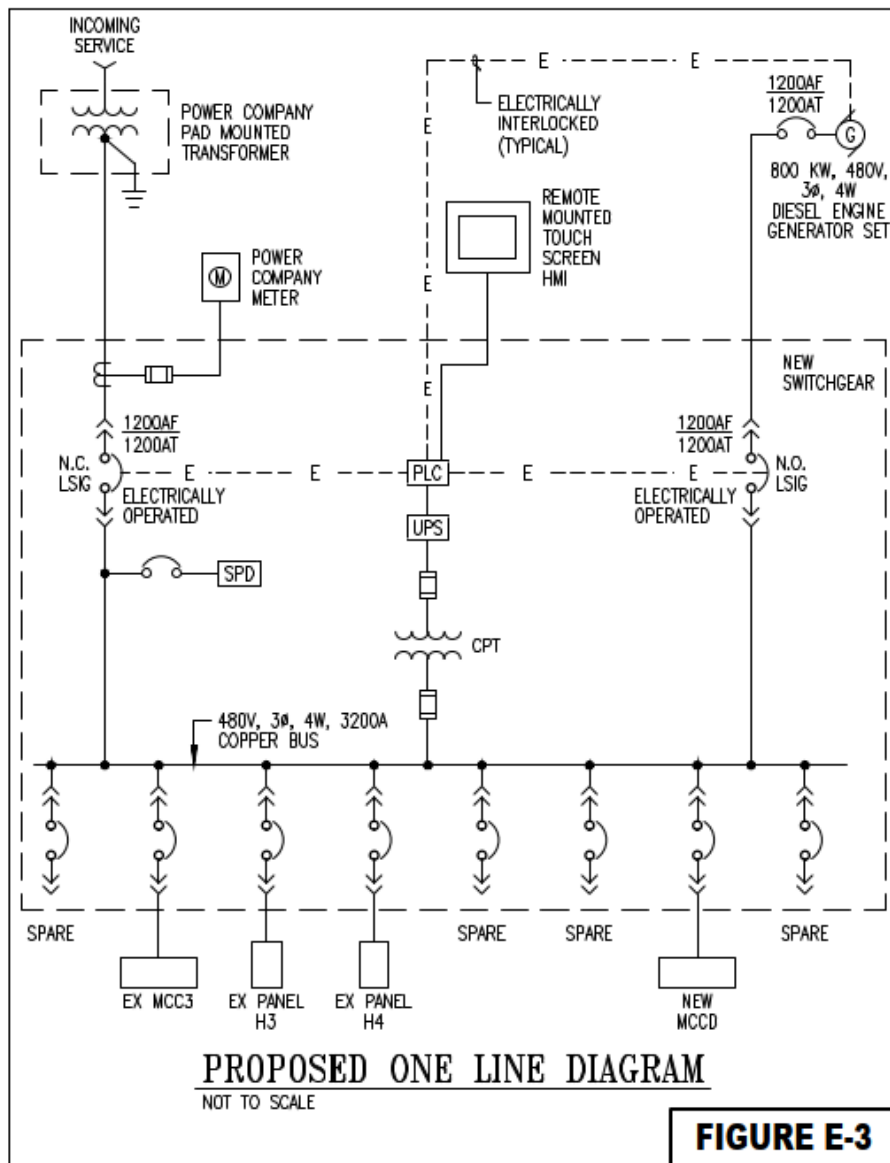
The electrically operated, draw-out type branch circuit breakers will feed the new Digester Building, the existing Digester Building and the existing Plant Control Building 480/277-volt, 3 phase power loads.

Dry type transformers will step-down the 480 volts to 208/120 volts and branch circuit breaker panelboards will be used for powering lights, receptacles and other miscellaneous single phase loads throughout the new digester building.

Backup power for the new sludge processing loads will be provided by an 800 KW, 480/277-volt diesel engine generator set. The generator set will be housed in a weather protective, sound attenuated metal enclosure, have a dual walled steel sub-base fuel tank and will be located outdoors adjacent to the Power company pad mounted transformer. The fuel tank will be of sufficient size to hold enough fuel for the generator set to provide a minimum of 24 usable operating hours at full load.

Refer to the proposed one-line diagram on **Figure 8 (E-3)**.

Figure 8: Proposed Electrical One-Line Diagram.



New lighting fixtures will be LED type, suitable for the area in which they are located. Exposed conduit will be rigid galvanized steel with a bonded-on PVC coating. Concrete encased ductbank conduits will be Schedule 40 PVC. All wire will be soft drawn copper with 600-volt insulation.

4 RECOMMENDED FACILITY PLAN

Based on the foregoing review of the existing solids handling facilities, operations and projected solids production as plant flows increase and the treatment plant capacity is expanded beyond the current permitted design of 2.5 MGD, the following phasing of solids process related upgrades is recommended.

Phase I: Near-term at current flows:

- 1.) Refurbish existing gravity sludge thickener (GST) including replacement of sludge mechanism, bridge, and cover, and repair concrete as needed. The Town is currently (2022) procuring a construction contract for this work.
- 2.) Consider provisions to add diluting water and/or chlorine to the GST feed.
- 3.) Replace existing digester plug valves to improve operability.
- 4.) Restore the grade around the perimeter of the building. Replace or repair loose handrails and corroded platforms.
- 5.) Expand the sludge storage area, if deemed needed, and replace the roof over the new and existing area.

Phase II: Plant flows approaching 2.5 MGD Permitted Capacity:

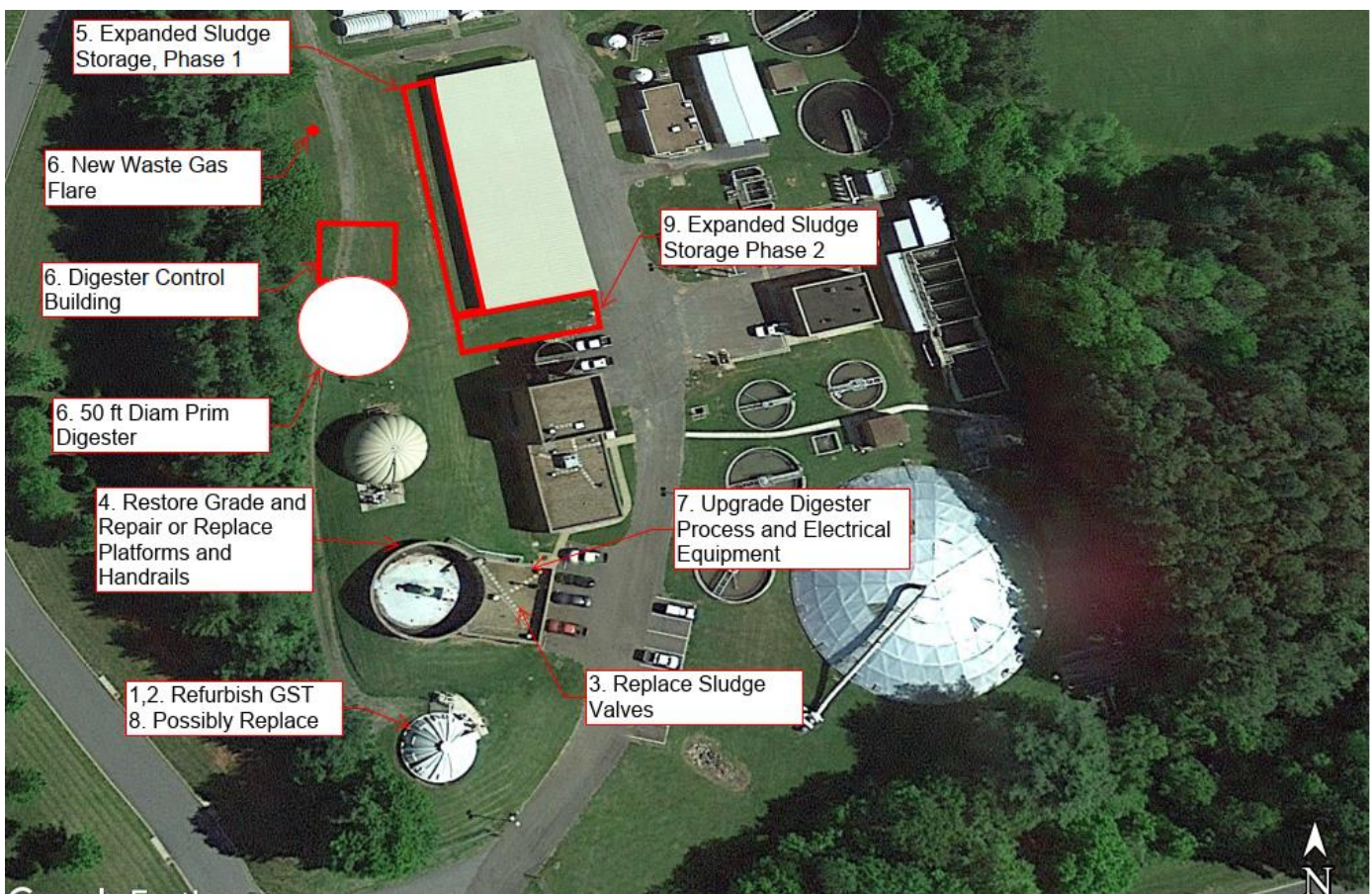
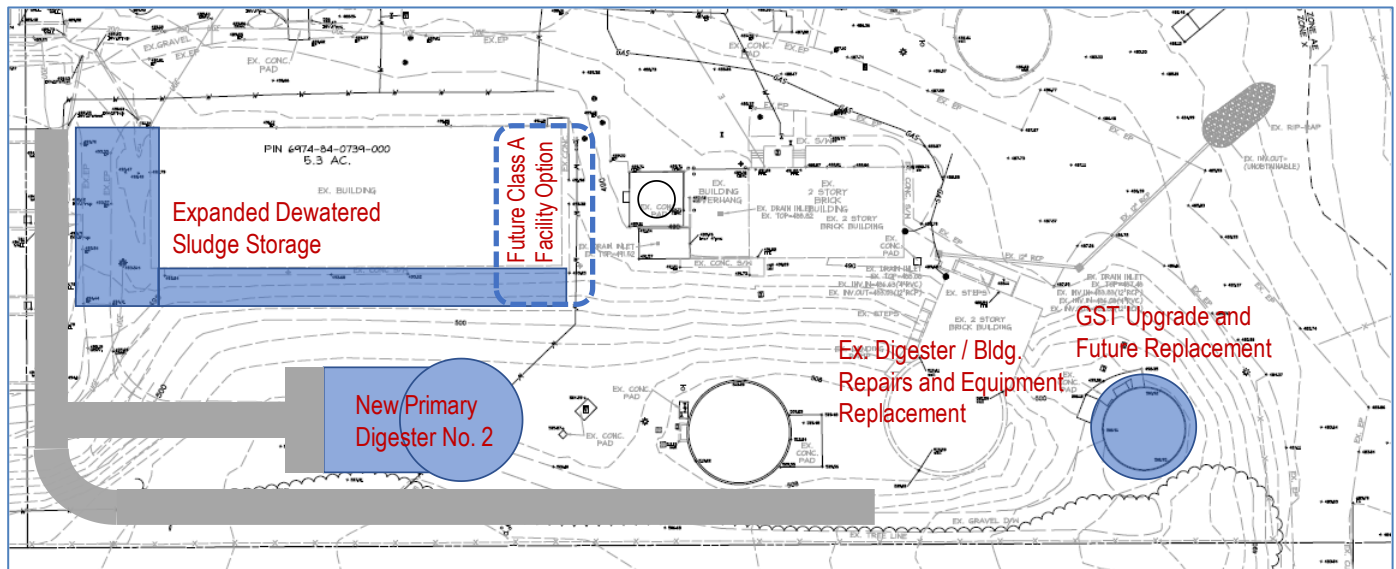
- 6.) Plan and design for an additional 50 ft diameter primary digester and associated facility.
- 7.) A new electrical service and standby power will be required for the second digester facility.
- 8.) Upgrade and replace process equipment (heat exchanger and pumps) and electrical MCC for the existing digester.
- 9.) Consider upgrading the dewatering BFP to a higher capacity unit, or select alternative dewatering technology such as a screw press.

Phase III: Plant Expansion to 3.0 MGD and 3.5 MGD:

- 10.) Depending on the performance of the existing GST when flows exceed 3.0 MGD, consider replacing with a larger GST.
- 11.) Further expand the sludge storage area as needed.
- 12.) Depending on biosolids management and future regulations, plan or possibly build a new Class A biosolids facility.

Figure 9 shows a schematic site plan for the recommended solids handling improvements.

Figure 9: Solids Facility Site Plan



Preliminary planning level construction cost estimates are shown in **Table 13** for each of the recommended solids facility improvements based on phased implementation.

Table 13: Solids Facility Improvements Planning Level Construction Costs

Phase Item	Upgrades	Planning Level Construction Costs ¹
Phase I		\$1.0M - \$1.5M
1.	Refurbish Existing GST	\$0.4M - \$0.5M
2.	Add provisions for Diluting Water and Chlorine to GST	\$0.1M - \$0.15M
3.	Replace Existing Digester Valves	\$0.15M - \$0.2M
4.	Ex. Digester Building and Grade Repairs	\$0.1M - \$0.15M
5.	Expand Dewatered Sludge Storage	\$0.35 - \$0.45M
Phase II		\$7.0M - \$8.5M
6.	New Primary Digester No. 2	\$4.5M - \$5.0M
7A.	New Electrical Power Service	\$0.9M - \$1.1M
7B.	New Standby Power (Generator)	\$0.5M - \$0.75M
8.	Equipment Replacement for Existing Primary Digester	\$0.75M - \$1.0M
9.	Expand Dewatering Capacity (new BFP or Screw Press)	\$0.5M - \$0.75M
Phase III		\$1.25M - \$1.75M
10.	Replace GST with Larger GST	\$1.0M - \$1.4M
11.	Dewatered Sludge Storage Expansion	\$0.25M - \$0.35M
Phase III (beyond)		
12.	Future Class A Biosolids (heat drying facility)	\$10M - \$12M

¹ Costs do not include Engineering and Administration (2021 dollars)

Appendices

Appendix A

Structural Condition Assessment – Field Memo

MEMORANDUM

Date: December 17, 2019

To: File
From: Brian Barna, PE
Subject: Warrenton WWTP – Structural Condition Assessment
CC:

Work Order Number: WRA 18560.000
Contract Number:
Project: Town of Warrenton WWTP – Solids Handling Facilities Upgrade PER

Background:

Whitman, Requardt and Associates, LLP (WRA) visited the Town of Warrenton Wastewater Treatment Plant site on November 20, 2019 to perform a structural condition assessment of the existing digester building, control building, sludge storage area, and gravity thickener. This assessment was limited to conditions readily visible on the exterior and interior areas of the facility, and the exterior of the digester and the gravity thickener. The assessment did not include structural observations of the interior of the digester tank or the floating cover.

Several minor structural and architectural deficiencies were observed during our site visit. We did not observe any deficiencies that would be considered critical to the overall structural integrity of these elements. These deficiencies generally fall into one of two categories, (1) issues that could have a negative impact on the operator safety or serviceability of the building or (2) maintenance issues that could continue to worsen over time if observed deficiency is not mitigated or repaired.

Digester Building

The digester building consists of a two-story, cast-in-place concrete structure and a double-heighted digester tank extending from the foundation level to the roof. The first floor of the building and the base slab of the digester tank are concrete mat slab foundations. The concrete digester walls bear on a continuous wall footing at the digester tank perimeter.

See the attached floor plan for the approximate locations of each observed deficiency.

1. A long horizontal hairline crack observed along circular wall of digester tank, approximately 4' above Upper Level slab. This crack should be repaired by injecting epoxy adhesive into the crack.



- 2. A long vertical hairline crack observed on circular wall of digester tank, extending from Upper Level slab to roof slab. This crack should be repaired by injecting epoxy adhesive into the crack.



3. A long horizontal hairline crack observed along circular wall of digester tank, approximately 2.5' above Upper Level slab. This crack should be repaired by injecting epoxy adhesive into the crack. (Similar to Photo #1)
4. Vertical cracks observed at intersections of masonry walls, extending from Upper Level slab to roof slab. These cracks should be repaired by injecting epoxy adhesive into the cracks.



5. Hairline cracks were observed in Upper Level slab between valve operator floor stands. These cracks should be repaired by injecting epoxy adhesive into the cracks.



6. At concrete stair landing above main entrance, chains are used instead of guardrails. OSHA Standard 1910.29(b)(10) states, "[w]hen guardrail systems are used at hoist areas, a removable guardrail section, consisting of a top rail and midrail, are placed across the access opening between guardrail sections when employees are not performing hoisting operations. The employer may use chains or gates instead of a removable guardrail section at hoist areas if the employer demonstrates the chains or gates provide a level of safety equivalent to guardrails." We recommend to replace the chains with either a permanent or a removable guardrail, dependent on if this section needs to be removable for hoisting operations.



7. A severe horizontal mortar joint failure was observed along the entire north wall. A continuous steel relieving angle lintel is aligned with this joint. The lintel was observed through the joint and appears to be rusted and delaminated. The joint appears to be likely too wide to be repaired with mortar. Recommended repair is to route out the existing mortar joint, then insert a backer rod into the joint and seal the exterior of the joint with a flexible sealant.



- 8. The grating at the exterior ramp was loose and not attached to support structure. This creates a hazardous walking surface. The grating should be fastened to the structural supports on each side of the ramp.



9. The mortar joints between most of the precast concrete parapet cap units have failed, causing openings between the units and uneven elevations. Recommended repair is to repoint all mortar joints between precast concrete parapet caps.



10. Cracking and spalling was observed at the wall opening to access the top of the digester from the exterior. Crack aligns with the joint between the digester concrete wall and the brick façade. Recommended repair is to patch spalls with repair mortar and to route and seal the crack.



11. The concrete brick shelf corbel extending from digester walls was exposed in several locations around the perimeter of the building. Typically this brick shelf would be below grade so the bottom of the brick façade would terminate below grade where it would not be seen. The visible brick shelf is primarily a cosmetic deficiency; however, the fact that so much of the brick shelf is exposed could be evidence of grading erosion caused by slope stability issues of the steeply-sloped grade.



12. The bottom of footing supporting the exterior grating ramp was exposed. Also, there is an approximately 18" drop in elevation from the base of the metal ramp to the adjacent grading, which is a serviceability issue. The base building drawings indicate a design of a 2" elevation difference between top of footing and top of grade. The subgrade under the footing should be restored, and the soil at the end of the ramp should be re-graded to eliminate the elevation drop. These elevation issues are additional evidence of grading erosion in this area.



13. Spalls with exposed rebar were observed at two locations at the underside of the concrete beam. These spalls can be repaired with a patching mortar.



14. A temporary screw-jack shoring post was supporting the pipe fitting. This shoring post should not be used as a permanent support for the pipe. The pipe should either be hung from the structure above or supported by a permanent post supported by the first floor slab.



Control Building

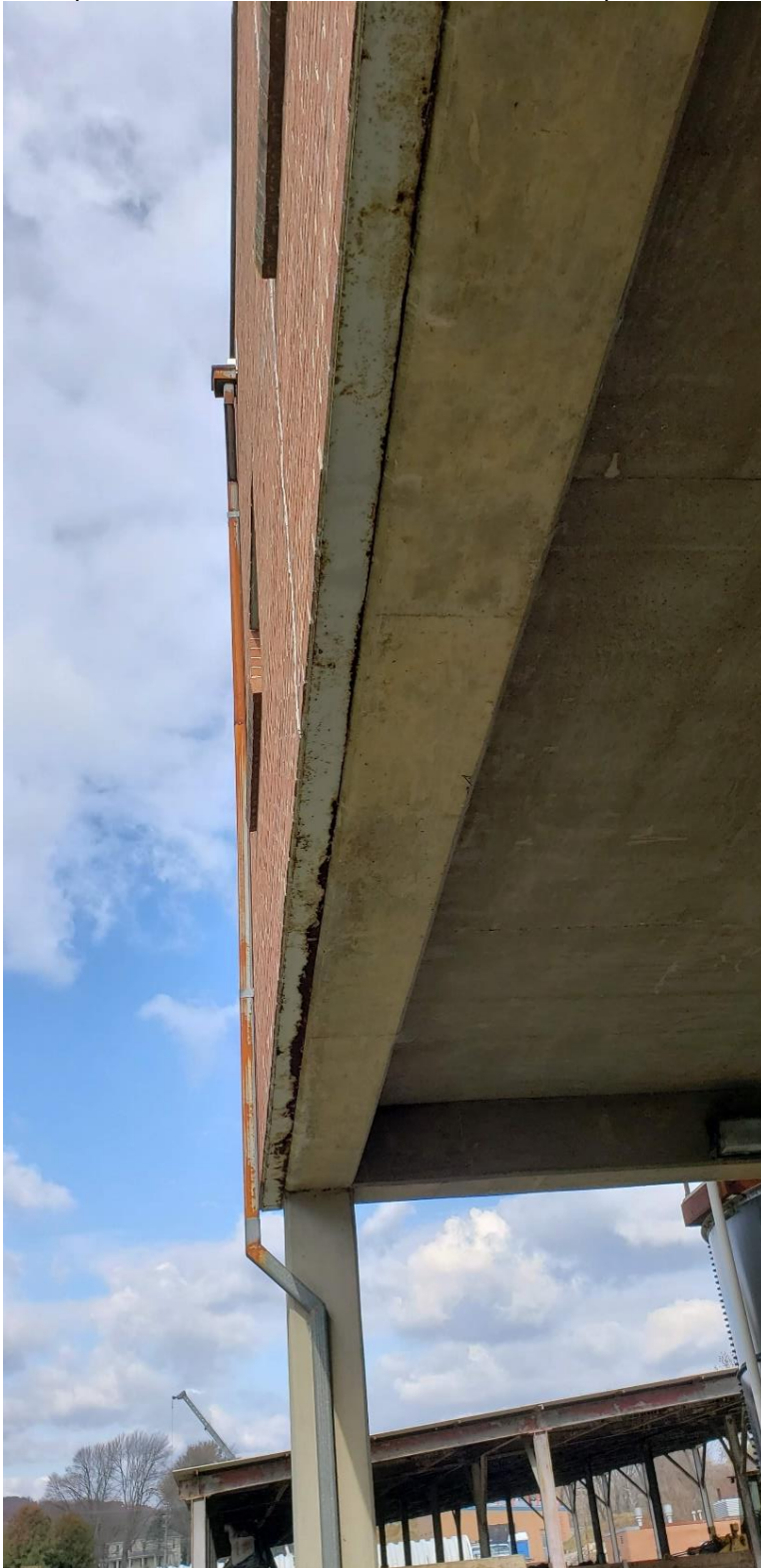
The control building is a rectangular building with a two-story portion and a one-story portion. The roof of the two-story structure typically consists of metal deck on open-web steel joists on concrete masonry unit bearing walls. The second story framing supporting the sludge press equipment consists of a cast-in-place concrete slab supported by concrete beams and columns. The low roof area over the one-story portion consists of metal deck on open-web steel joists on concrete masonry unit bearing walls. The entire structure bears on shallow wall and column footings. The first floor is typically a soil-supported slab-on-ground.

See the attached floor plan for the approximate locations of each observed deficiency.

1. Cracks were observed through bricks at the window sill and vertical bricks near window jamb. Damaged bricks should be removed and replaced in kind.



2. The steel lintel on all three sides of open drive-in area for trucks to receive sludge is rusted. Recommended repair is to remove rust with a wire brush, then paint steel with a zinc-rich paint for protection.



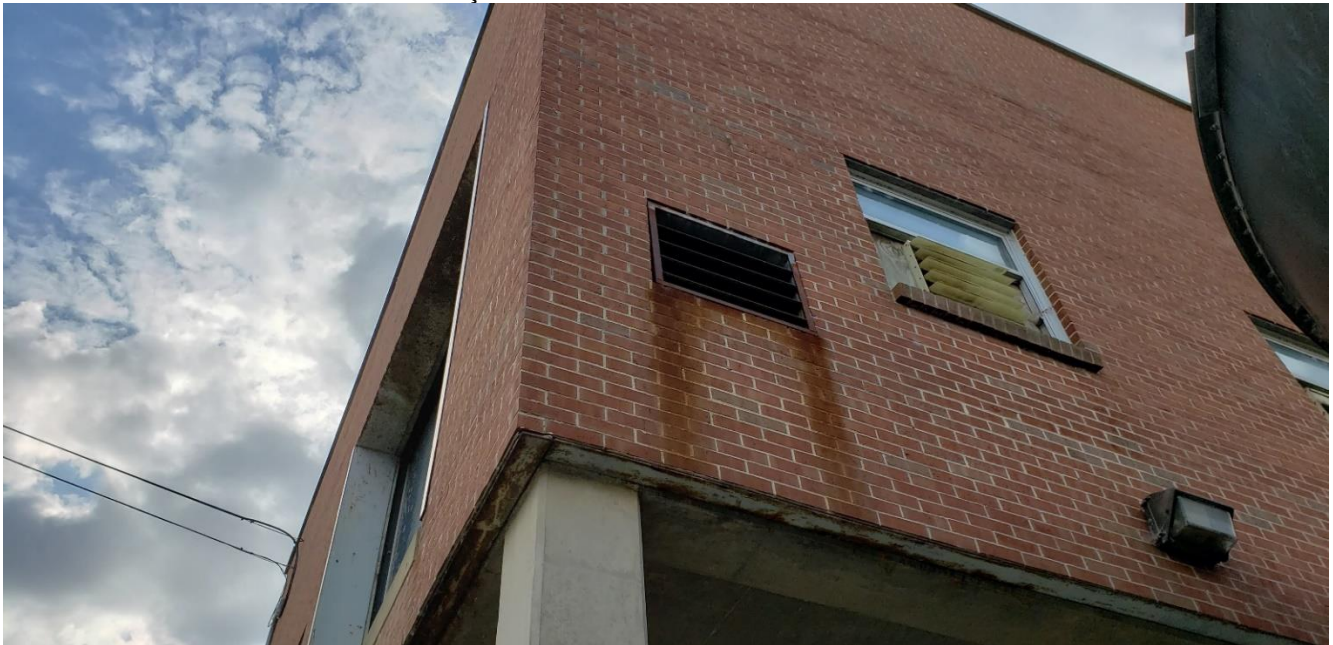
3. The two downspouts from high roof scuppers are rusted. Recommended repair is to remove existing downspouts and replace in kind.



4. The structure supporting the maintenance platform above tank is severely rusted and should be replaced in kind. Handrails and top support for ladder are also rusted and should either be scraped with a wire brush and repainted or replaced in kind.



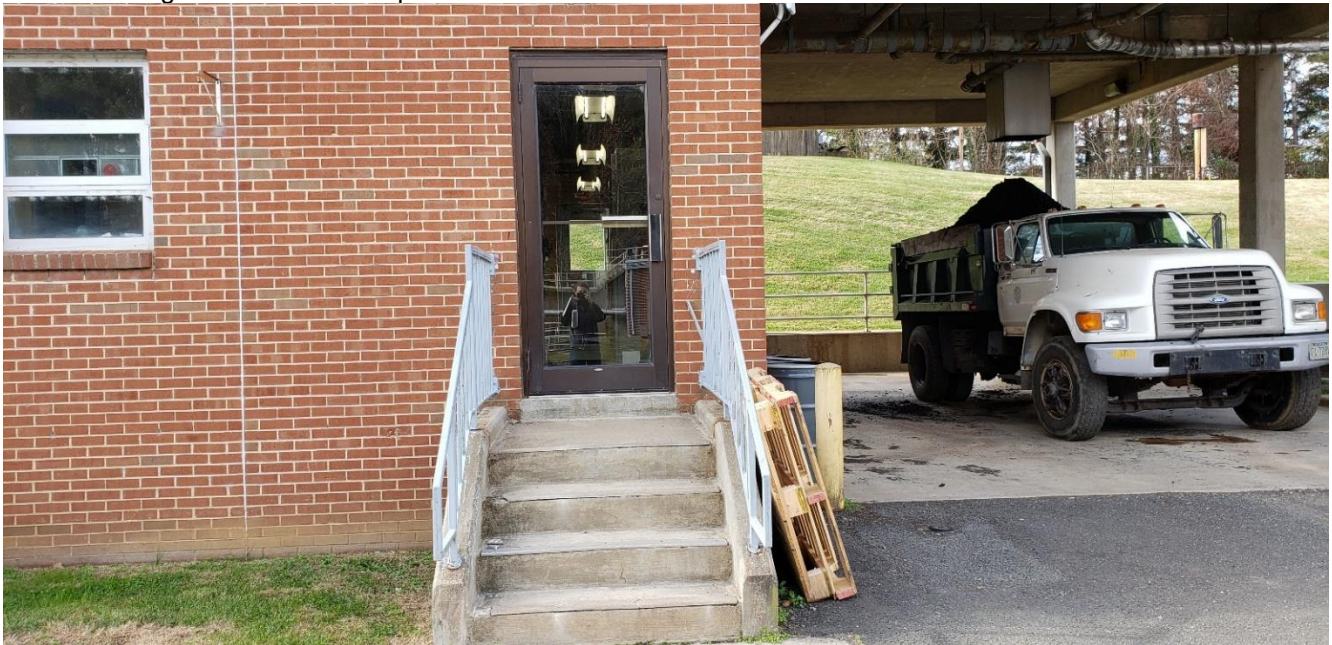
5. North Elevation: The louver on the north elevation is rusted. Recommended to remove louver and replace in kind. Clean rust stains from brick façade.



- 6. East Elevation: Top of brick veneer has spalled under concrete sill at Second Floor overhead door. Recommended to remove damaged bricks and replace in kind, then seal joint between concrete sill and brick below with a flexible joint sealant and backer rod.



- 7. East Elevation: Anti-slip stair treads embedded in exterior concrete stairs have cracked and failed. Remove all existing stair treads and replace in kind.



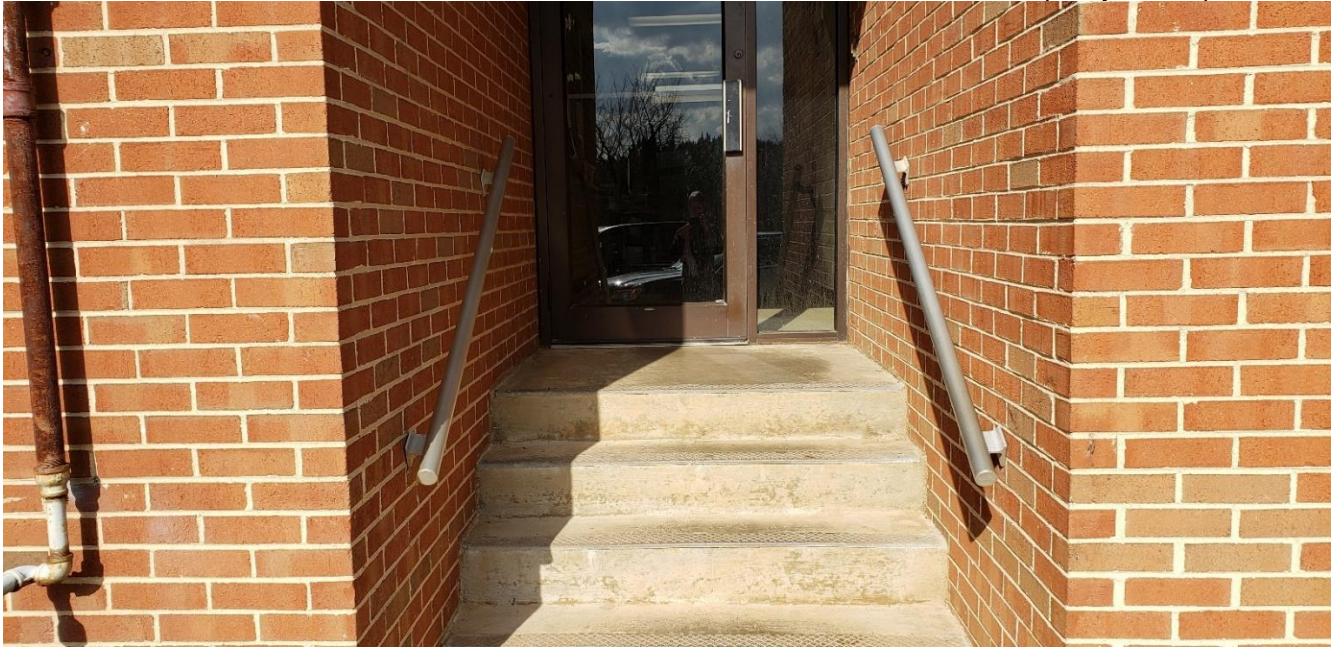
8. East Elevation: The end of the concrete curb has completely detached from the structure, exposing the sleeve for embedded handrail pipe. Repair end of curb with new cast-in-place concrete formed in place and doweled into existing concrete structure.



9. South Elevation: Rusty exterior pipe at gas meter. Remove and replace in kind.



- 10. South Elevation: Handrails attached to brick walls at each side of entrance are loose. Replace post-installed fasteners of handrail connections into brick facades for a minimum allowable load capacity of 200 pounds.



- 11. Building interior, First Floor: Water stains were observed on a few of the ceiling tiles. Recommended action is to confirm there are no active leaks above the stained ceiling tiles, then replace stained ceiling tiles in kind.



12. South Elevation: Vertical brick cracks were observed at intersections of east and west walls above low roof area. Recommended repair is to route out cracks and fill with flexible sealant.



13. South Elevation: Rusted flashing at base of brick veneer above low roof area. Recommended repair is to scrape rust off of flashing with a wire brush and paint with a zinc-rich paint for protection.



14. Building interior: The roof hatch hardware was rusted and difficult to operate. Recommended repair is to replace hardware.



Sludge Storage Area

The sludge storage area is an open-air rectangular structure with a monoslope roof sloping from its high point at the front of the building to its low point at the rear of the building. The slab area is approximately 9,330 square feet, separated into 8 approximately equal bays by short concrete walls. The roof is a steel deck supported by open-web steel joists and steel beams and columns. The columns bear on steel base plates on top of the concrete walls.

The structure is of the same typical layout and condition throughout, so observations will be made describing typical conditions for the structure. Base building drawings for this structure were not available for our condition assessment.

1. Above the short concrete walls, the two perimeter side walls and the back wall had higher walls comprised of loose-laid wood members between small wide-flange steel posts. A few intermediate walls also had the higher wood separation. These loose-laid members leave gaps where the sludge could escape the storage area, especially given the desire to increase storage capacity by piling sludge higher. Consider building higher walls out of concrete or masonry, especially for the perimeter walls.



2. Steel members generally had paint worn off and moderate rust in several locations. In a few locations, section loss was observed for the steel columns, reducing their load-carrying capacity. For the modification to raise the roof height, re-use of the existing steel should not be considered due to the condition of the existing steel and the complexity associated with raising the existing roof. Use a new structural frame to support the new raised canopy roof.



3. The existing metal roof deck was observed to be in good condition – it appeared to be newer than the supporting structure. Interviews with personnel at the WWTP confirmed that the roof deck had been replaced, though the date of replacement was unknown. One employee stated the roof was replaced in the late 1990's; a second employee stated the replacement occurred within the last 10 years. It is feasible that the metal deck could be re-used if a new steel structure is chosen to support the new higher roof.



4. Along the front of the sludge storage area, the openings for each bay of the short concrete wall were cut after the fact, based on observations of exposed rebar ends and aggregate at the edges of the walls. We recommend patching the cut ends of each wall with a patching mortar to smooth the wall edges and to protect the steel reinforcement.



Gravity Thickener

The existing gravity thickener structure consists of a fiberglass dome supported by concrete walls supported by a concrete mat foundation. We observed the above-grade exterior of the existing gravity thickener. Since most of the structure is located underground, only a small portion of the structure was visible and the observed portion of this structure was unremarkable. No deficiencies were observed.



Sincerely,

Brian Barna, P.E.

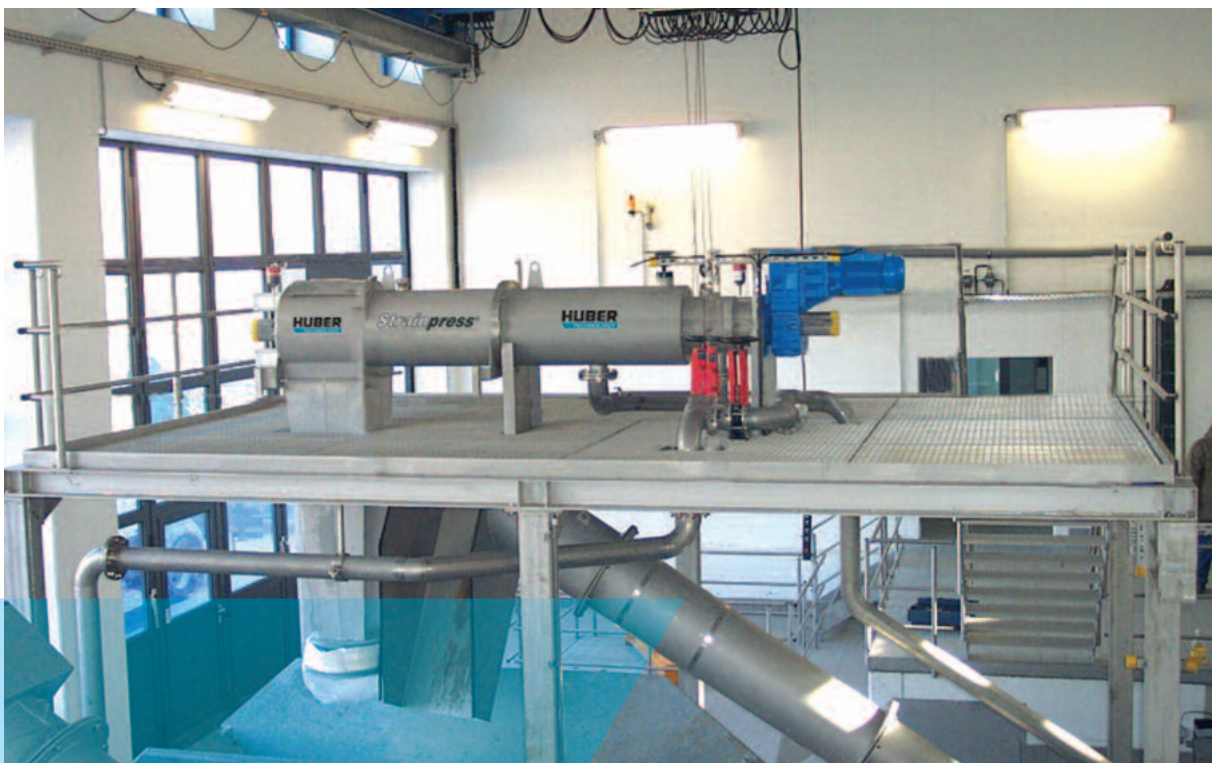
Appendix B

Solids Handling Process Equipment

- Sludge Screen
- Gravity Belt Thickener (GBT)
- Rotary Drum Thickener (RDT)
- Dewatering Screw Press

Sludge Screen

HUBER Sludgecleaner STRAINPRESS®



- Continuous screening, dewatering and transport of coarse material in one operation
- Removal of coarse material from municipal sludge and industrial process water

►► Design and function

The STRAINPRESS® is a horizontal cylindrical coarse material separator which consists of inlet and screening zone, press zone, and a discharge section.

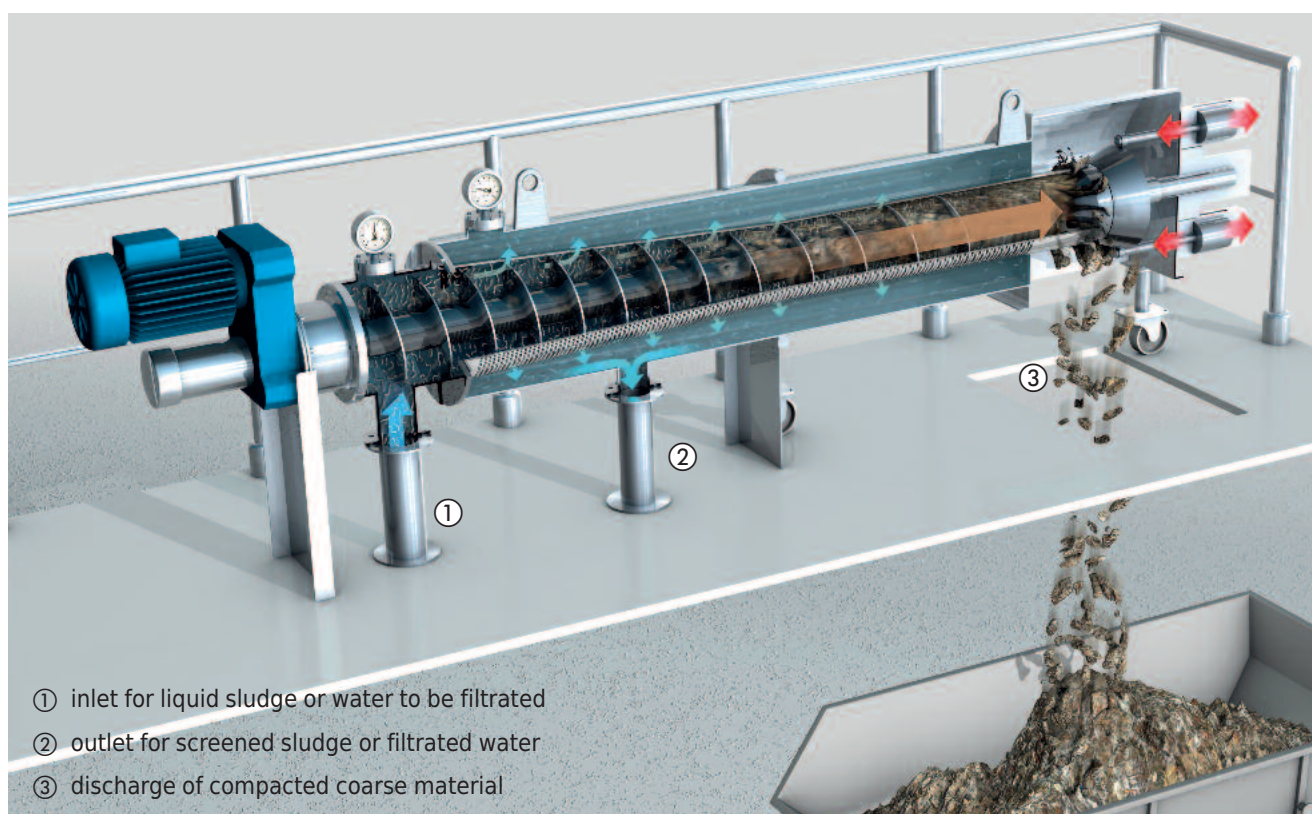
A pump presses the unscreened liquid through the screening zone and delivers the screened liquid to further process steps. The coarse material which is retained on the cylindrical screen is stripped off by a coaxial screw and pushed through the press zone where the material is extensively compacted and dewatered. The screw operates only when the pressure sensors detect a differential pressure caused by screen surface blinding. The compacted material is pressed through a gap around a hydraulically operated pressure cone which closes part of the pipe end and builds up counterpressure. The counterpressure of the cone is automatically regulated inversely proportional to the screw motor load.

The system does not need any wash water as backwashing of the screen is unnecessary.

The perforation and design of the screw shaft are individually adjusted to optimally suit specific requirements.

►► Features and benefits

- Pressure-fed (inline) system for process water and any type of sludge including highly viscous and grease containing sludge
- Increases the operating reliability of downstream sludge treatment systems, such as thickening, disinfection, stabilisation, dewatering, drying, and reduces maintenance requirements
- For various applications perforations of 2 to 10 mm, different screw geometries and different material qualities are available
- Reliable cleaning of the screen without any wash water
- Pressure-dependent control of the screw shaft combined with the pressure cone regulation system allows for unattended automatic operation even with varying flow rates
- Dewatering of separated coarse material to approx. 40% DR
- 2 sizes for throughput capacities up to 200 m³/h
- More than 1000 successful installations worldwide



►► Easy maintenance

The complete casing, perforated plate and screw shaft of the HUBER Sludgecleaner STRAINPRESS® are made of corrosion-resistant 1.4307 (AISI 304L) stainless steel. The screw flights are reinforced with tungsten carbide for wear protection. The machine can be split in the middle and one half of the machine moved for maintenance. This allows for example to replace the perforated plate and install a screen insert with a new perforation size.



Splittable casing

►► Examples



Sludge screening on WWTP Athens, Greece



Outdoor installation of a HUBER Sludgecleaner STRAINPRESS®



STRAINPRESS® with heatable casing pipe



Screen for the removal of fermentation residues

►► Throughputs

Screen size	Throughput capacity [m³/h] with 5 mm screen perforation and 3% DS	Screenings volume [l/h] with 35 - 45% DS	Drive [kW]	Dimensions [m] L x W x H
290	<=75	<=1000	2.2	3.6 x 0.7 x 1.0
430	<=160	<=2000	3	4.5 x 0.8 x 1.4

►► STRAINPRESS® applications

The STRAINPRESS® is used for liquid sludge screening or filtration of service or process water under pressure.

Examples for coarse material separation from:

- primary sludge
- secondary sludge
- mixed sludge
- septic sludge
- floating sludge
- grease sludge
- digested sludge
- production wastewater and industrial sludges
- circulation and process water



Discharge of the separated dewatered material



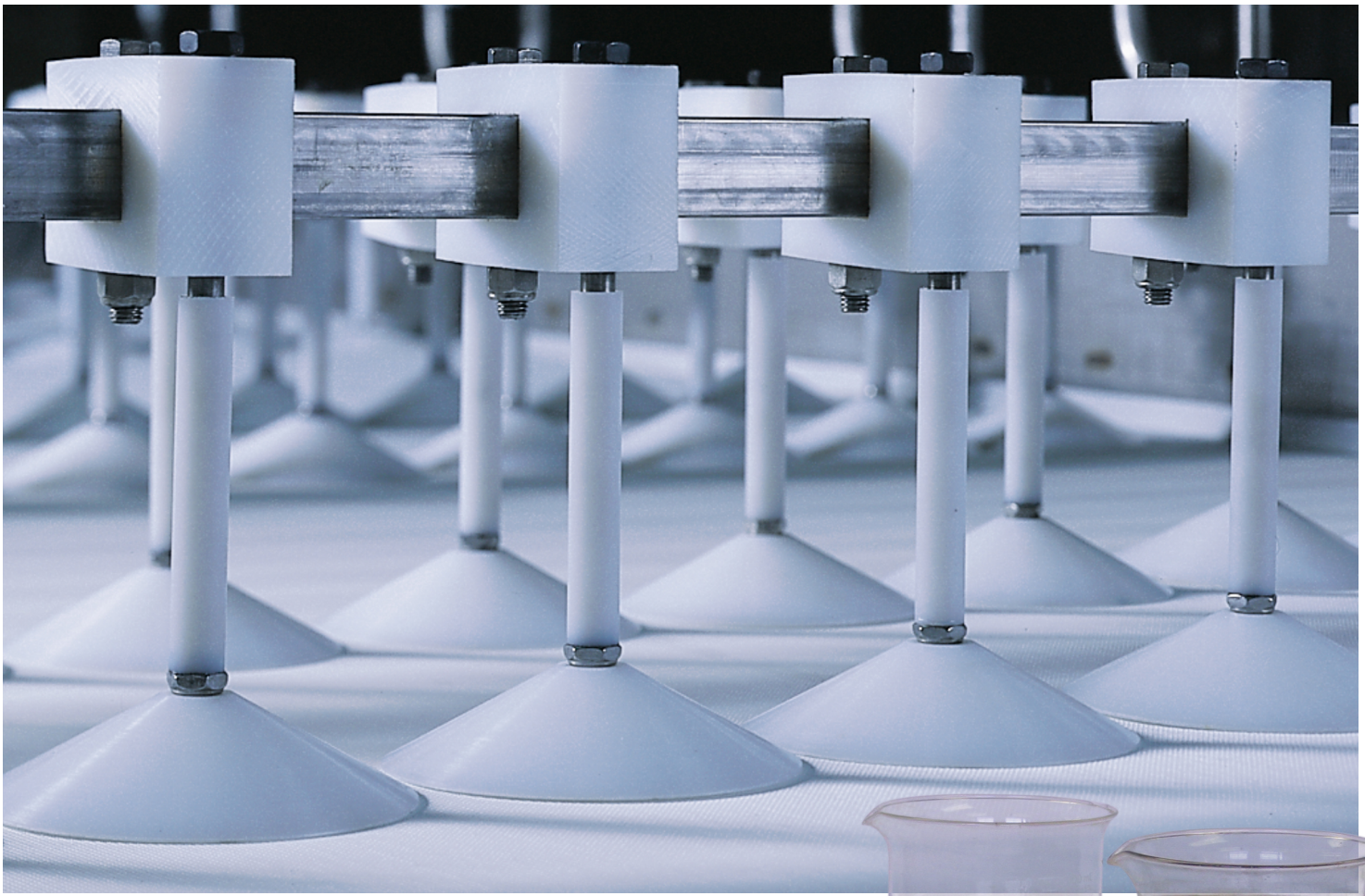
Separated material: paper, wood, plastic, foils, rubber, textiles, etc.

HUBER SE

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Phone: + 49 - 84 62 - 201 - 0 · Fax: + 49 - 84 62 - 201 - 810
info@huber.de · Internet: www.huber.de

Subject to technical modification
0,1 / 12 - 3.2020 - 1.2004

HUBER Sludgecleaner STRAINPRESS®



Gravabelt® Gravity Belt Thickener



Komline-Sanderson's Gravabelt® gravity belt thickener is designed to obtain high volume reduction and high hydraulic throughput at a low polymer dose. The design provides for low maintenance costs and long operational life in the highly corrosive environment of sludge thickening.

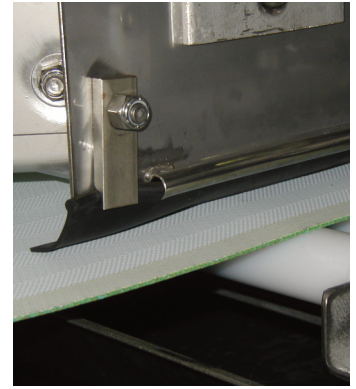
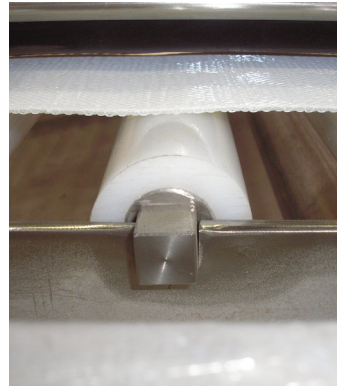
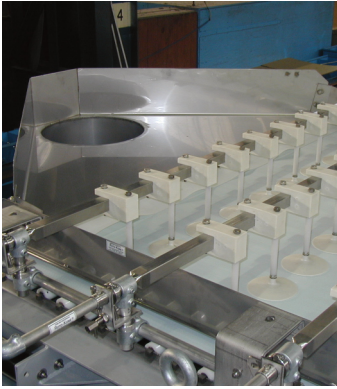
The Gravabelt delivers pumpable thickened sludge. Our flatbed design provides high capture rates using less polymer than rotary designs.



A fully enclosed Gravabelt, pictured right, is also available.

Gravabelt: Gravity Belt Thickener

Item b.

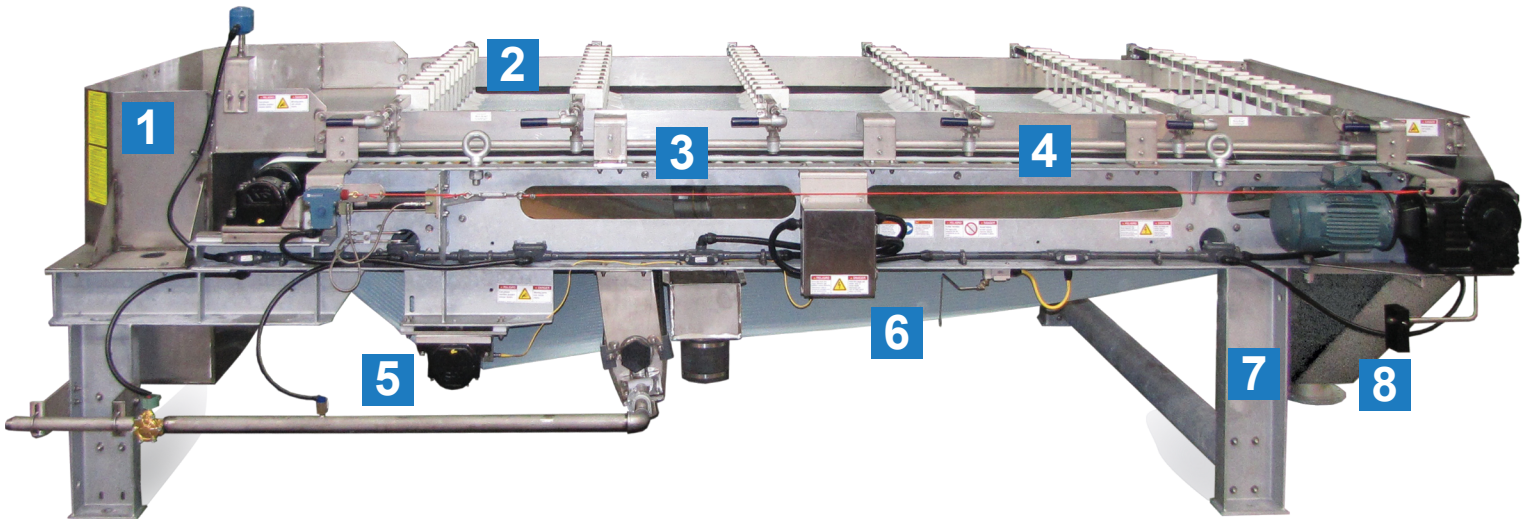


1 Feed Section - Polymer is injected through a multiport ring and mixed with the sludge via a non-clog variable orifice mixer in the feed line prior to entering the flocculation tank. Coagulated solids form in the flocculation tank and overflow onto the dewatering belt in a smooth, gentle stream, minimizing floc shear.

2 Roto-Kone® Elements - Roto-Kone elements lift and decelerate incoming sludge creating a head which turns the sludge to enhance separation. Roto-Kone stations are placed in several locations along the entire length of the belt. The elements rotate, reducing rag hang-up, and self adjust to maintain contact with the belt. They can be lifted to precisely control final cake solids.

3 Belt Support/Wiper Bars - The dewatering belt is supported on abrasion-resistant, replaceable polyethylene wipers to enhance dewatering by constantly breaking the liquid surface tension. Wipers can be rotated providing multiple wear surfaces.

4 Side Seals - Replaceable rubber side seals prevent sludge from spilling off the sides of the moving drainage belt. A clamp is used to hold these seals in place for easy removal and installation.



5 Bearings - All bearings are a split pillow block, double-row spherical roller design. They lie outboard of the process stream, are regreasable, and are nylon coated. For our standard two meter machine the minimum L-10 life is equivalent to over 135 years of continuous service.

6 Dewatering Belt - Expected belt life is 2000-3000 hours depending upon the feed material being processed. Replacement time is less than an hour and no machine disassembly is required.

7 Frame Construction and Corrosion-Resistant Features - The frame is heavy duty hot-dip galvanized carbon steel channel welded and/or bolted. Stainless steel is also available. All fasteners are stainless steel and the conduit is PVC coated. Cylinders are constructed of composite materials to eliminate corrosion.

8 Discharge Hopper - The discharge hopper can be directly connected to a thickened sludge pump eliminating the need for an intermediate storage tank with level sensors used to operate the thickened sludge pump.

Pump. Thicken. Dewater. Dry.

KS Komline-Sanderson

12 Holland Ave.
Peapack, NJ 07977-0257

www.komline-sanderson.com
(908) 241-2000

656

Rotary Drum Thickener

ROTAMAT® Screw Thickener RoS 2



Screw thickener for municipal and industrial sludge

- compact and entirely enclosed
- efficient and reliable operation with minimum operator attendance
- low operation and maintenance costs
- made of stainless steel, pickled in acid bath

►► Features

Thin sludge is pumped to the flocculation reactor of the screw thickener. A polymer station prepares a polymer solution from powder or liquid polymer. The diluted polymer is introduced through a dosing ring into the feed sludge, and is intensively mixed with the sludge in a static inline mixer.

Strong sludge flocs are formed in the agitated flocculation reactor where the flocculated sludge overflows into the screw thickener.

The screw thickener is comprised of an inclined wedge section basket with a 0.01" (0.25 mm) spacing. A screw, slowly rotating with variable speed, conveys the sludge gently upward through the inclined basket. Water drains through the basket. The screw flights are provided with a brush for continuous internal cleaning of the wedge section basket. Periodically the wedge section basket is also cleaned with spray water from the outside. Spray bars rotate around the basket, but within the machine.

The screw pushes the thickened sludge to the upper end of the wedge section basket where it drops through a chute into the thickened sludge pump that forwards it to further treatment.

►► Benefits

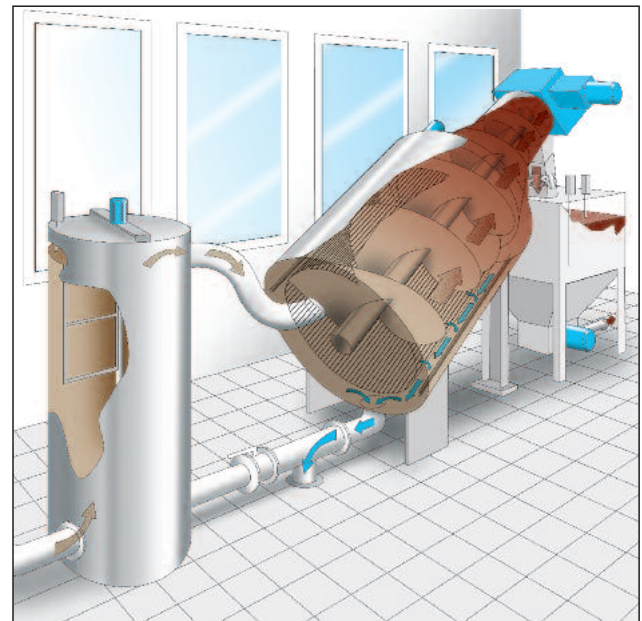
- Coarse material does not impair the machine and its operation
- Fully enclosed system prevents odor nuisance and health & safety hazards
- No noise, no vibration
- No need for wash-down
- Little operator attendance due to fully automatic operation
- Polymer and wash water consumption
- Low operating costs
- Little wear and maintenance
- Made of stainless steel, pickled in an acid bath for perfect finishing and corrosion protection

►► Performance

- Thick sludge solids: 4 to 8 %*
- Hydraulic capacity: Up to 350 gpm (80 m³/h)**
- Solids capacity: Up to 1,600 lb/h (720 kg/h)**
- Solids capture rate: > 95 %*

* common municipal wastewater sludge

** per screw thickener



HUBER TECHNOLOGY, Inc.

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 Phone: (704) 949-1010 · Fax: (704) 949-1020
 huber@hhusa.net · <http://www.huber-technology.com>

Subject to technical modification
 0,0 / 7 – 11.2012 – 2.2005

ROTAMAT® Screw Thickener RoS 2

Dewatering Screw Press

HUBER Screw Press Q-PRESS®



- The new generation of our well-proven sludge dewatering press
- even more efficient
 - increased reliability of operation
 - optimized operating costs

►► Sludge dewatering

Flocculated sludge is pumped into a cylindrical screen basket wherein an auger slowly rotates. The diameter of the auger's shaft increases towards the end of the basket and the gap between its flights decreases. The volume between basket, shaft and flights continuously decreases, and the pressure thus increases, as the sludge is moved through the basket. Sludge water is pressed through the basket's screen.

The auger pushes the increasingly thicker sludge towards the annular clearance, defined by a circular opening and an adjustable discharge cone therein. The cone is pressed against the opening by pneumatic cylinders, thus maintaining a defined sludge pressure at the discharge end.

Scrapers on the screw shaft permanently clean the filter basket from the inside. A stationary spray bar backwashes it periodically and segment by segment by segment from the outside without interrupting the dewatering process.

►► Innovation

Energy efficiency:

The screw drives exceed the current energy efficiency standards of electric motors. Due to maximised electrical efficiency the HUBER Screw Press Q-PRESS® can therefore be operated with higher solids throughputs.

Dewatering results:

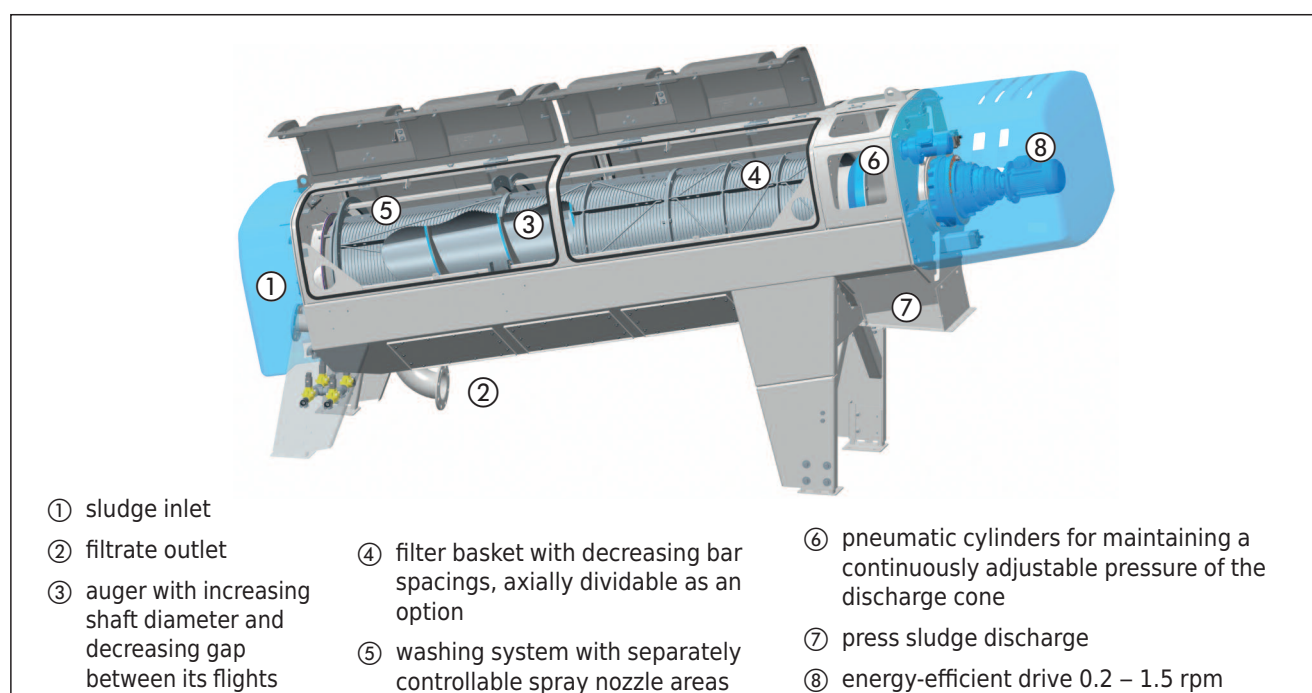
Unique scrapers on the screw shaft permanently and reliably clean the inner filter surface with every rotation of the screw. Additionally, the scrapers are optimally arranged to increase cleaning frequency. Free water can thus very easily run off. As a result, dewatering efficiency increases and flocculant consumption is reduced.

Due to the significantly enlarged open filter surface filter baskets with the same bar spacings are able to handle higher hydraulic loads without impairment of filtrate quality.

The outside of the filter is cleaned without interrupting the dewatering process. The predewatering and press zone can be washed independently of each other. Rewetting of press sludge through washing is reduced to a minimum especially in the press zone without neglecting the important washing in the predewatering zone.

Maintenance:

As an option, the three segments of the filter baskets are available as axially divided segments. Only the upper half of the basket needs to be removed for maintenance. The lower half of the filter basket can be removed from the screw shaft by means of a special mechanism but remains inside the filtrate chamber of the Q-PRESS® during maintenance. This saves a lot of time, reduces space requirements and the need for using lifting devices for maintenance.



Partial section of a HUBER Screw Press Q-PRESS®

►► Advantages

High dewatering

- defined sludge volume reduction in the screw press
- continuously adjustable counterpressure at the discharge end
- filtrate discharge enhanced by gravity due to inclined installation
- unique scraper system for permanent cleaning of the inner filter surface
- significantly increased free filter surface
- continuous dewatering

Reliable operation with little downtime

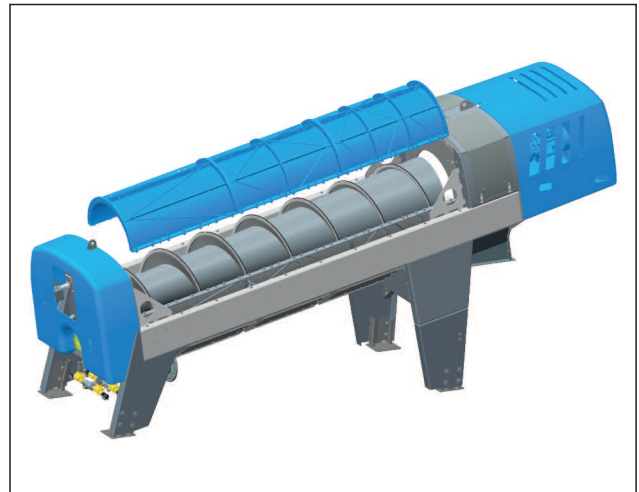
- virtually no wear because of < 1.5 rpm screw rotationspeed
- sturdy stainless steel design
- dividable filter baskets available as an option
- special filter dividing mechanism
- easy access through large inspection openings
- minimal space requirements for maintenance
- simple self-monitoring control strategy
- proven in hundreds of installations

Minimum operation costs

- outstanding energy efficiency
- specific power consumption < 8 kWh/t_{DR}
- little operator attention (< 20 min/day)
- high solids capture rate > 97%

Low total investment costs

- compact design and small footprint
- easy connection of the screw conveyor
- optional tube flocculator
- integrated support legs
- simple control system
- vibration-free, virtually noiseless operation
- fully enclosed design



HUBER Screw Press Q-PRESS® inclined installation with optionally dividable screen baskets



Sturdy wedge wire basket made of stainless steel



Stationary mounted screw press for 140 kgDS/h

➤➤ Special applications of the Q-PRESS®

Dewatering of thin sludges

Due to pump feeding, large volumes of sludge water are removed already in the pre-dewatering zone. This permits cost-efficient dewatering of thin sludges with a solids concentration < 1%.

Benefits

- sludge dewatering without the need for prior thickening
- typical dewatering results of 18 – 25% DS
- sludge volume reduction up to > 97% in a single step
- saves investment and operation costs for preceding sludge thickening
- little operator attention required

Variable sludge characteristics

Dewatering performance is usually impaired and operator attention increased by frequently varying sludge quality.

Our HUBER Screw Press Q-PRESS® automatically selfadjusts to over- and underloading. A control loop makes sure that optimal operation is always maintained.

Benefits

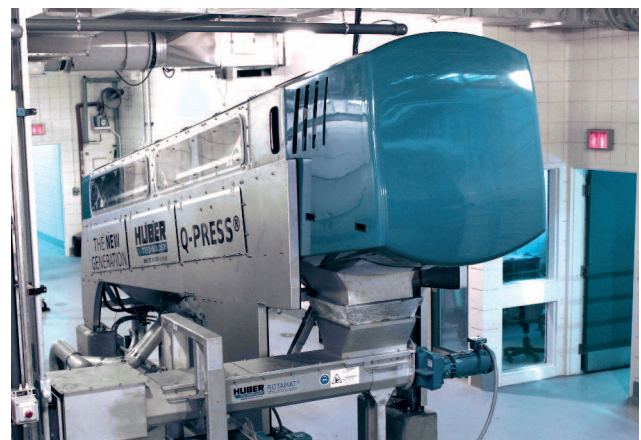
- always optimum performance
- flexible with varying sludge qualities
- minimised operator attention
- reliable operation

➤➤ Unit sizes / performance

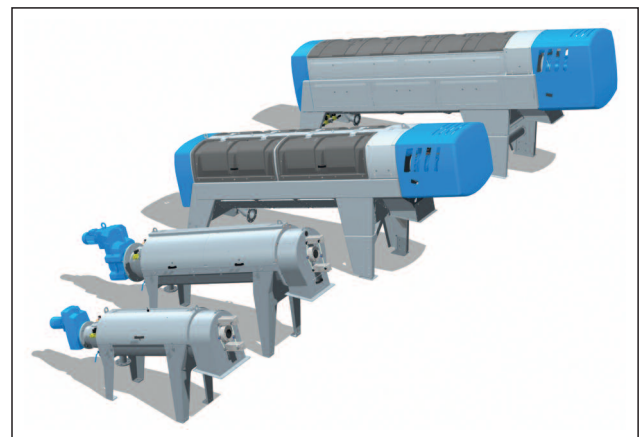
Size	Throughput [kg _{TR} /h]	Drive [kW]	Weight [t]
280	15 - 90	0.37	0.7
440.2	30 - 180	1.5	1.5
620.2	60 - 350	2.3	2.7
800.2	90 - 540	4.1	3.5



Contract dewatering with a trailer-mounted HUBER Screw Press Q-PRESS®



HUBER Screw Press Q-PRESS® 800.2 for 20 m³/h



HUBER Screw Press Q-PRESS®

HUBER TECHNOLOGY, Inc.

9735 Northcross Center Court STE A Huntersville, NC 28078
 Phone: 704-949-1010 · Fax: 704-949-1020
 Solutions@hhusa.net · <http://www.huber-technology.com>

Subject to technical modification
 0,0 / 9 – 1.2016 – 7.2010

HUBER Screw Press Q-PRESS®

Item b.

Public Works and Utilities Feasibility Study October 2021



Introduction

HISTORY: Town Council requested staff begin the process of a feasibility study for the development and construction of a new Public Works and Utilities facility.

PURPOSE: To begin a feasibility study for the relocation of the Public Works facility, known as the “shop” currently located at 360 Falmouth St.

CURRENT LOCATION FACTS: The existing facility is approximately 5.23 acres located at 360 Falmouth St, Warrenton, VA. This facility was originally uses as a telephone company service yard. The Town began using the property for their Public Works functions in the 1980’s. Over the years, several additions have been made to the property as the responsibilities and operations of the Town’s Public Works and Utilities Department grew. These improvements included additional office space, a large salt barn, and some covered storage space. Operations have and continue to be adjusted to fit in the space.

While the facility was growing, so were the adjacent residential properties. The current facility is surrounded by residential use. Hillsborough Condos, circa 1990, are north of the main entrance to the facility and share the east property line with the yard; Leeds Square Townhouses, circa 1983, shares the northwest property line of the yard; Aviary Townhouses, circa 1988, share the south property lines with the entrance way and yard; there are duplexes constructed in 2005 to the west which share the property line with the yard; and several single-family residential properties along Falmouth St. constructed from 1900 to the 1930’s.

The location of the current facility works well from an operations standpoint as it is within Town limits and has direct access to all points in Town for service with alternative routes if required. Residents are familiar with the location because it has been there so long; however, the increase in operations and equipment have an adverse effect on the surrounding residential uses. These include noise from trucks and OSHA warning devices at any given hour of day or night, especially during afterhours responses and snow response; dust and run off from the gravel drive areas; and the regular operation of commercial equipment in the residential area.

The size of the current facility does not function well. The limited space present challenges for properly storing vehicles and equipment, holding training and meetings, providing a clean work environment for staff, and complying with DEQ requirements. We have out grown the space.

A parcel detail and an aerial of the location are included in the Feasibility Notebook.

CURRENT LOCATION CHALLENGES: It is located within Town limits and is surrounded by residential properties. The site has aging buildings, is subject to DEQ violations; and is fundamentally suffering from the stress of functions and equipment out growing the space.

The most pressing issues are:

- Deteriorating structures used to store equipment and machinery:





- Existing structures are undersized and improperly equipped to protect equipment and machinery from the environment effectively:







- The grounds are gravel, stone, and dirt material which are a continuous maintenance issue for the surfaces as well as the equipment driving over it:

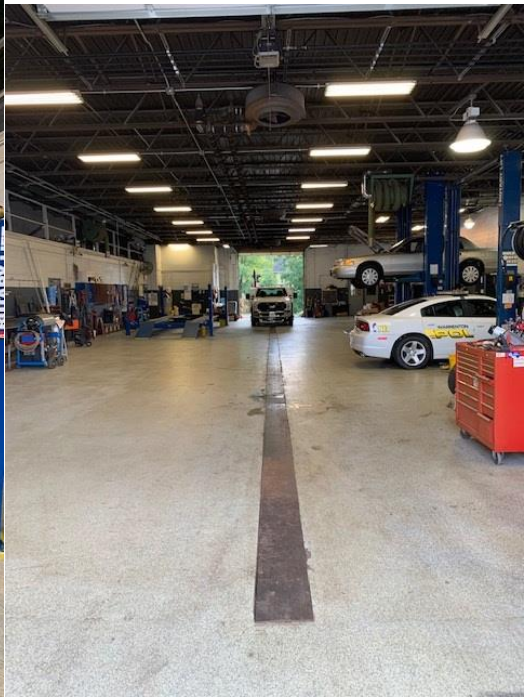


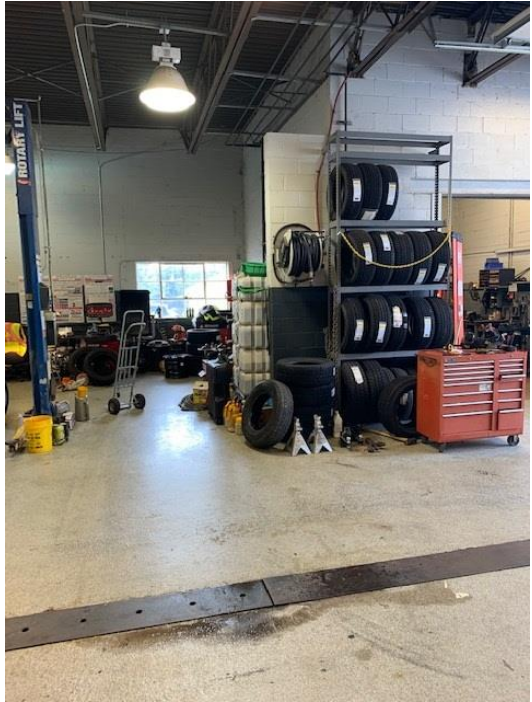


- The only truck wash is outside:



- The fleet garage is a multi-use area for storage, maintenance, meetings, welding, fabrication, vehicle outfitting, and other functions as necessary.







- Inadequate training room- Two stations:



- The bathrooms are in poor condition; there is no ladies locker room; the men's locker room is in poor shape; and the men's room does not have air conditioning.

Ladies Room:



Men's Room:



- The sign “shop” is nothing but a storage room:



- The salt barn needs repairs and is not properly situated or improved to meet DEQ standards.

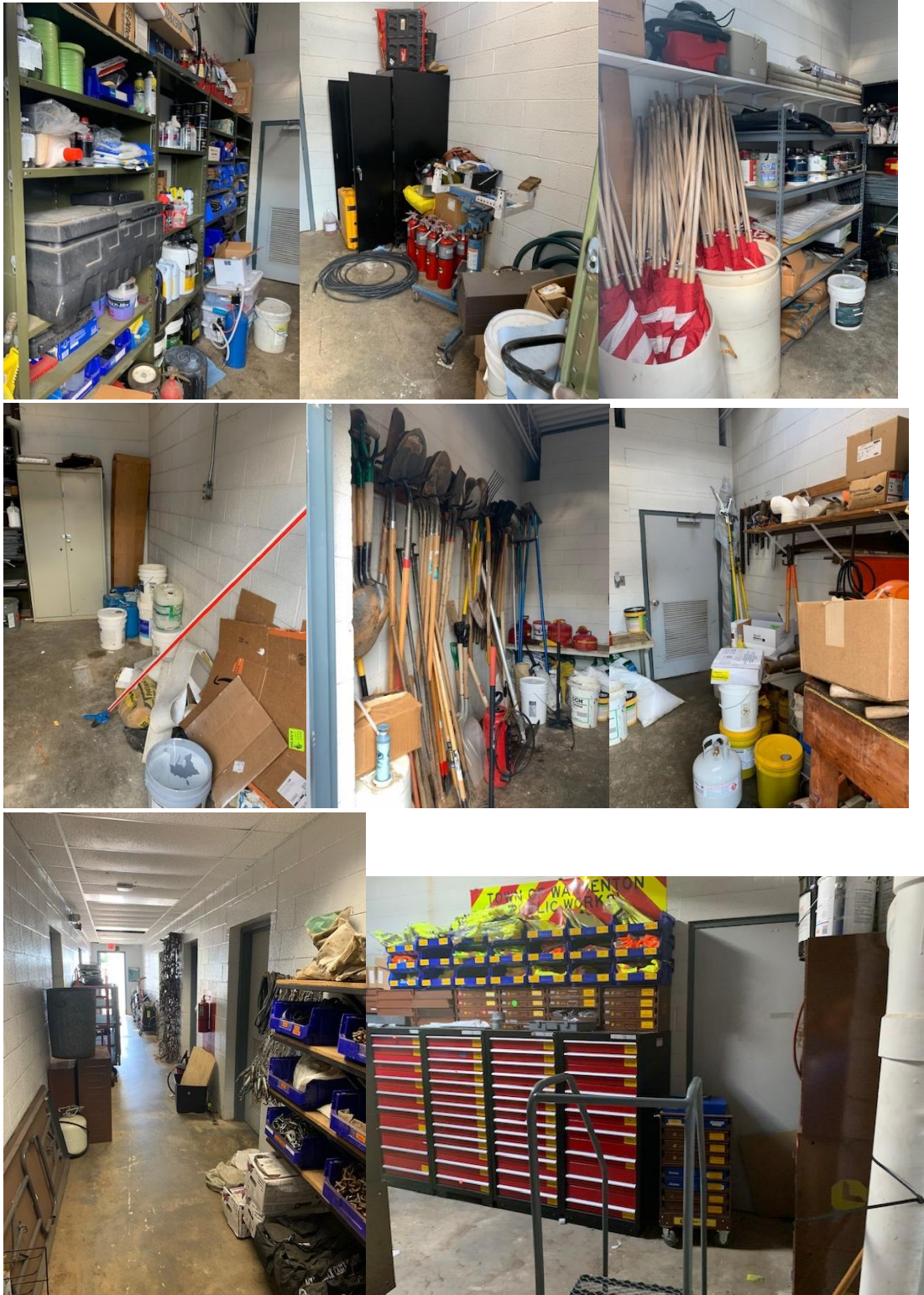


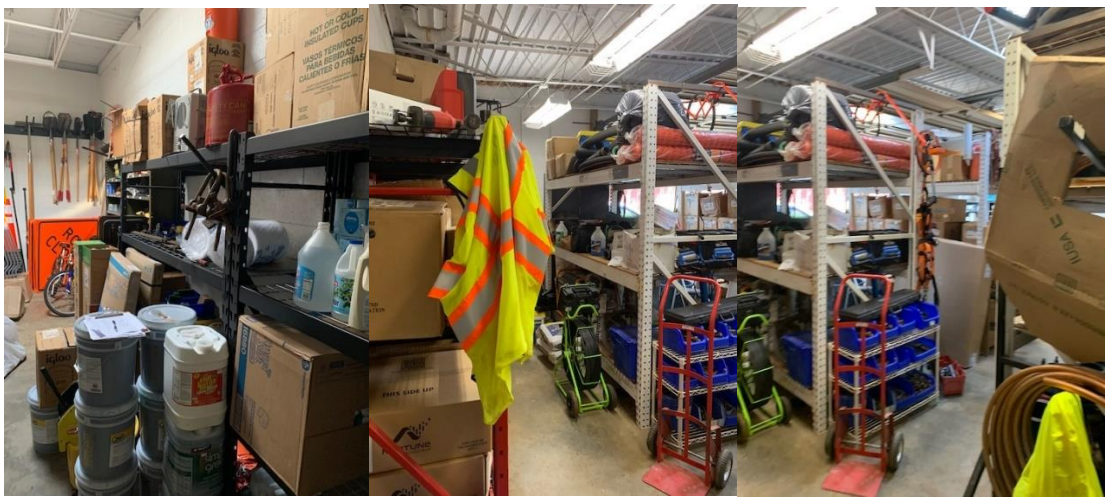


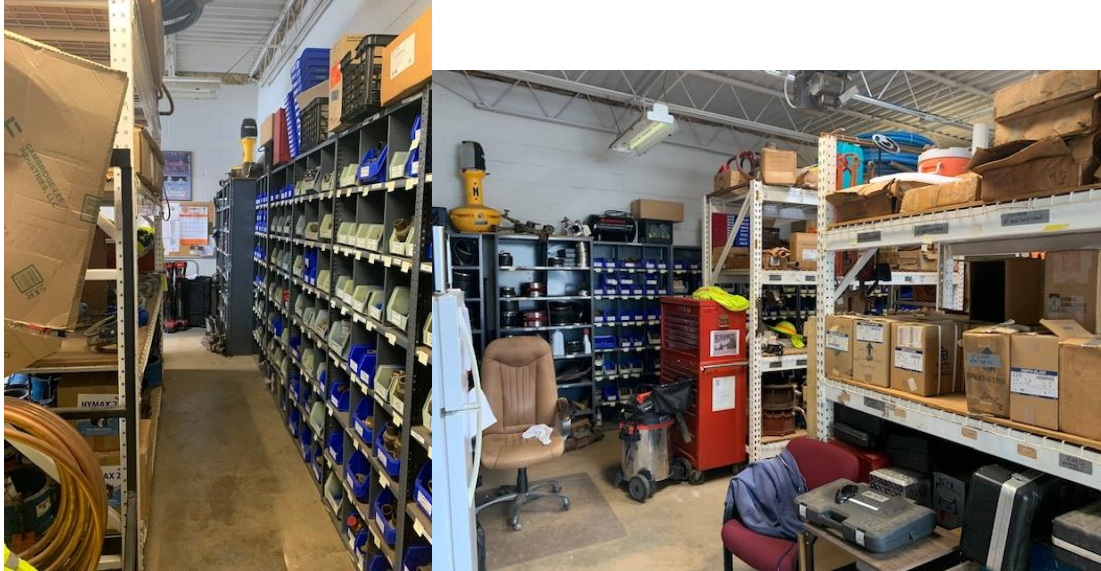
- The lunchroom is a multi-use room and does not provide adequate space or equipment for a truly functioning lunchroom for the number of staff.



- Inadequate storage rooms- rooms are separated and create a tracking challenge; halls used for extra storage space:







- Front counter and administration area is small and serves multiple uses:



- Inadequate employee parking: parking is adjacent to residential uses adding to the disruption:



- The site overall creates challenges on several levels for DEQ compliance:





- Fueling station does not have any cover; pumps are outdated; poorly situated at the main entrance of equipment to the yard:



- The location of the shop creates noise and disrupts the residential aspects of the surrounding properties, especially during an emergency response or night long responses to snow and ice.



PRELIMINARY STAFF REQUESTS: we engaged staff into this process. The objective is to make sure we capture the concerns from staff as the primary user of the current facility and any future facility. We engaged in face-to-face discussions as well as provided a survey. Copies of the survey are in the Feasibility Notebook. The results are:

From Face-to-face discussions:

- New restrooms with functional locker and shower rooms.
- A separate training room that can accommodate all staff for regular training and meetings.
- A separate fleet maintenance bay dedicated to fleet maintenance only.
- Inside truck washing station with a steam cleaning system.
- A designated fabrication and welding shop.
- A functional sign shop where signs can be repaired, fabricated, and refreshed as well as stored.
- A central supply area for storing and managing all supplies.
- A small equipment shop.
- HAZMAT supply and response unit storage space.
- New, upgraded salt storage and fuel dispensing areas.
- Adequate office space for each team supervisor, stormwater, utility T&D, and administration.
- Adequate space designated for staff access to computers with desk space for reports and individual training.
- Inspection's office to house all inspectors.

From Survey Results:

- Indoor storage.
- Training room.
- Indoor truck wash.
- Indoor salt storage.
- Lockers and showers.
- Lunchroom.
- Consolidated file and storage space.
- Emergency operations room/space.
- Adequate office accommodations.
- Separate welding and sign shop.
- Room for growth.

BASIC SPACE CONSIDERTIONS: The initial assessment of adequate operating space for Public Works is at least ten (10) acres of working space. When considering relocation, we must also consider the relationship with Town limits: in Town limits or outside of Town limits. This may be affected by boundary line adjustments as the Town moves forward. In short, the obvious efficiencies of having the shop located in Town limits start with response time to Town issues; distance traveled; fuel usage; and access. Moving the shop out of Town limits may interfere with our ability to respond as quickly as we would for example, snow routes may not be plowed. We will need to calculate distance, time, and costs for trips as we examine different sites.

Next, DEQ requirements must be taken into consideration. These will be addressed during site work and construction design; however, we must consider the costs of designing a facility meeting the DEQ requirements specifically for the salt and fuel storage and distribution.

Also, accessibility to sanitary sewer and water. Again, this will be addressed in site and construction design. At this point, the sites we are exploring will require significant improvements for these services. A study was done in 2019 for the Stafford Farm area. The report is attached.

For preliminary discussion, we submit the following square footage for specific space:

- Fleet mechanic shop and facilities- 20,000 sq. ft.
- Indoor garage storage- car, truck, and hot wash- 50,000 sq. ft.
- Central supply room- 20,000 sq. ft.
- General offices- 2250 sq. ft.
- Staff work areas- 2200 sq. ft.
- Conference room- 2000 sq. ft.
- Lunchroom- 1,000 sq. ft.
- Locker rooms and shower for all staff- industry standards.
- Fuel pumps with canopy- 5,000 sq. ft.
- Indoor aggregate storage to include salt/drive thru loading- 50,000 sq. ft.

TOTAL UNDER ROOF OCCUPIED: 100,000 sq ft.

TOTAL UNDER ROOF STORAGE: 50,000 sq. ft.

SITE ANALYSIS: A report presented by Bohler Engineering was completed and submitted to staff on September 29, 2021. A full copy of the report is in the feasibility study notebook. The report includes site analysis and a sketch layout of the structure.

NEXT STEPS: We recommend the following as our next steps:

- Direction from Council to continue the study.
- Zoning analysis.
- Budget worksheet.



**Town Council Meeting Item Number: 6.
March 8, 2022**

**Agenda Memorandum
Submitted by: Frank Cassidy, Public Works Director**

Issue: **Public Works Facility Study**

Background: Council requested staff to examine the long-term capacity for the current public Works facility for operations and improvements. It was deemed the current facility and location does meet standards. Staff began exploring options.

Discussion: Provide update on status of the study as to two locations identified as possible alternatives for a new Public Works facility

Financial Impact:

Recommended Action: Provide direction on next steps

Town Manager

ATTACHMENTS:

Description	Type	Upload Date
PW Facility Memo 3.8.2022	Cover Memo	3/7/2022
Site layout option 1	Backup Material	2/25/2022
Site option 1 soil map	Backup Material	2/25/2022
Site option 1 soil report	Backup Material	2/25/2022
Site layout option 2	Backup Material	2/25/2022
Site option 2 access option	Backup Material	2/25/2022



TOWN OF WARRENTON

Public Works and Utilities Department

PO BOX 341
WARRENTON, VIRGINIA 20188
<http://www.warrentonva.gov>
TELEPHONE (540) 347-1101
FAX (540) 349-2414

MEMORANDUM

TO: Brandie Schaeffer, Town Manager

FROM: Frank Cassidy, Director - Public Works and Utilities

DATE: March 8, 2022

SUBJECT: New Public Works Facility - Limited Feasibility Study

In the Fall of 2021, Council requested staff to provide a feasibility study for a new Public Work's facility. The objective of this feasibility study is to provide an overview regarding the feasibility of a new Public Works facility. The first step was to find appropriately sized land, totaling ten acres which must be adjacent to or within Town limits. In addition, examine opportunity for a joint County/Town facility as an option. In conjunction with the County, staff has worked to review the landfill and the Stafford Farm property. Three areas were identified for a possible facility site, and two sites for additional follow-up.

Limited Feasibility

The current Public Works facility, "The Shop," located at 360 Falmouth Street, is a former telephone company site and is surrounded by residential properties. The Shop has been occupied by Public Works since the 1980s, with minor upgrades and improvements. The age and current location have proven to be costly and counterproductive for on-site advancements. This includes:

- The storage spaces are open and not sufficient to adequately store vehicles and equipment.
- Multiple areas need upgrades or repairs- salt barn, bathrooms, locker areas.
- The building housing the offices need upgrades for space and use to include IT upgrades.

- Storage areas are disconnected, inhibiting a central location for supplies.

Assessment

The 2021 assessment of the current site identified the following challenges as sufficient reason to begin the feasibility study:

- Location- surrounded by residential uses—noise, dust, and other industrial uses are side effects to residence.
- Aging buildings- many require significant repairs and replacements. These buildings are not sufficient for current storage and fleet maintenance.
- The Town cannot upgrade ventilation and other equipment at a reasonable cost (as evidenced by attempted COVID enhancements).
- Due to general deferred maintenance, the facility is in run-down condition.
- The site has several compliance issues with minimal mitigation options.

The site has reached useful life absent extensive upgrades for use, regulation compliance, and safety.

BOHLER
 SITE CIVIL AND CONSULTING ENGINEERING
 PROGRAM MANAGEMENT
 LANDSCAPE ARCHITECTURE
 SUSTAINABLE DESIGN
 PERMITTING SERVICES
 TRANSPORTATION SERVICES

REV#	DATE	COMMENT



ALWAYS CALL 811
 IT'S NOT TO BE A PART OF THE PROBLEM

FOR CONCEPT PURPOSES ONLY

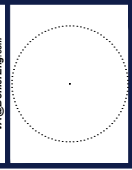
PROPOSED PROJECT: TOWN OF WARRENTON
 PREPARED BY: BOHLER CIVIL AND CONSULTING ENGINEERING
 DATE: 12/14/2022

CONCEPTUAL PLAN

PROJECT: TOWN OF WARRENTON

PROPOSED DEVELOPMENT: TOWN OF WARRENTON
 FAUQUER COUNTY, VIRGINIA

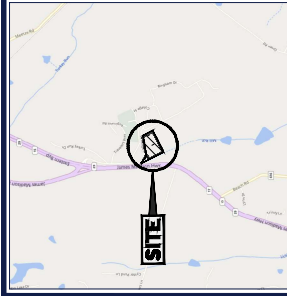
BOHLER
 28 BARNWELL PARK LANE, SUITE 201
 WARRENTON, VA 22650
 Phone: (540) 340-4000
 Fax: (540) 340-4008
 VABohler@aig.com



SHEET TITLE: **CONCEPT A**

SHEET NUMBER: **1**

Item b.



REVISIONS

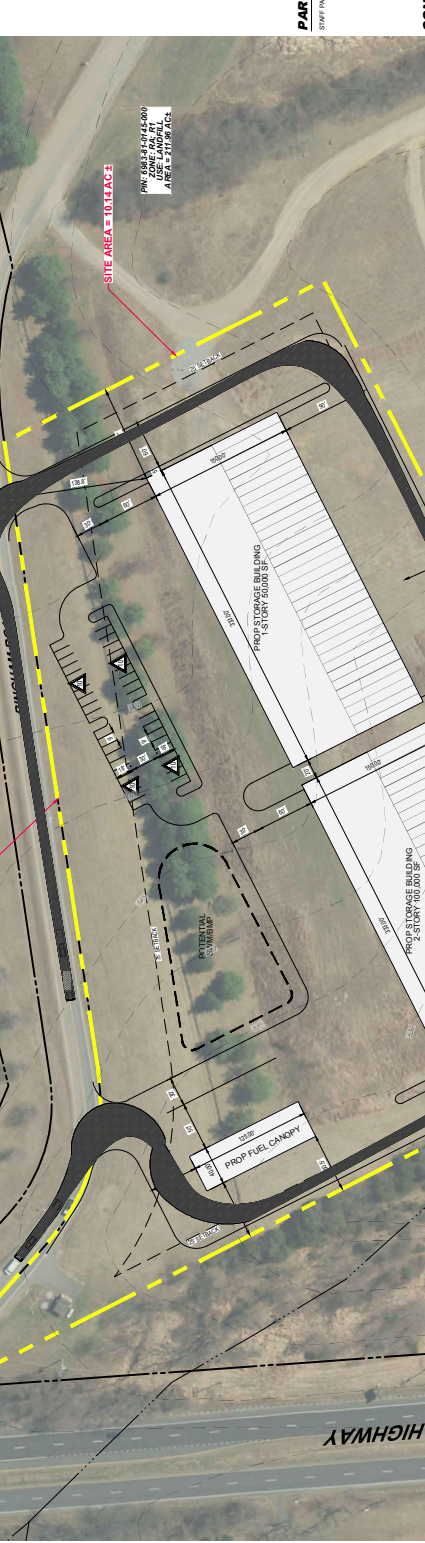
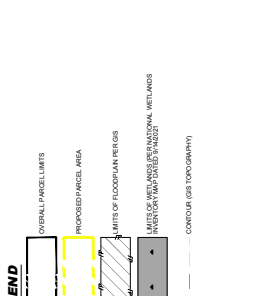
REV#	DATE	COMMENT

CONCEPT PLAN NOTES

1. THIS CONCEPTUAL PLAN IS PREPARED FOR CONCEPTUAL PURPOSES ONLY AND DOES NOT CONSTITUTE A GUARANTEE OF ACCURACY. THE CLIENT SHALL VERIFY ALL INFORMATION PROVIDED AND OBTAIN NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
2. THIS CONCEPTUAL PLAN IS SUBJECT TO THE LATEST AVAILABLE LOCAL, STATE, AND FEDERAL REGULATIONS AND ORDINANCES. THE CLIENT SHALL VERIFY ALL INFORMATION PROVIDED AND OBTAIN NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
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CONCEPT PLAN NOTES

ALL DIMENSIONS AND REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE TOWN OF WARRENTON ZONING ORDINANCE AND THE VIRGINIA ZONING ACT. THE CLIENT SHALL VERIFY ALL INFORMATION PROVIDED AND OBTAIN NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.





1 inch = 200 feet

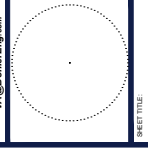
- > Intermittent Drain
- · -> Ephemeral Drain
- - -> Ditch

MAP UNIT SYMBOL SOIL NAME SLOPE	SOIL DESCRIPTION	General Characteristics						DEVELOPMENT POTENTIAL AND PROBLEMS USING	
		SOIL FEATURES			K _{Sat}	LAND POTENTIALS		CENTRAL WATER AND CENTRAL SEWER	CONVENTIONAL SEPTIC TANK AND DRAINFIELD
		Slope (%)	Erosional Hazard Potential:	Slight		Surface: Moderate	VERY POOR	MAY BE WITHIN 100-YEAR FLOODPLAIN; FREQUENT FLOODING; HIGH WATER TABLE; CONCENTRATED RUNOFF FROM HIGHER AREAS; OVERLAND FLOW-SIGNIFICANT DESTRUCTIVE POTENTIAL DURING FLOODING EVENTS	
10A	Very deep, somewhat poorly drained, yellowish brown loamy soils with intermittent high water tables in concave landscapes, along small drainageways and on alluvial fans; developed in recent colluvium/alluvium washed from basic and acidic rocks	0 - 2	Slight	Surface: Moderate	AGRICULTURE	VERY POOR	MAY BE WITHIN 100-YEAR FLOODPLAIN; FREQUENT FLOODING; HIGH WATER TABLE; CONCENTRATED RUNOFF FROM HIGHER AREAS; OVERLAND FLOW-SIGNIFICANT DESTRUCTIVE POTENTIAL DURING FLOODING EVENTS	NOT SUITED	High water table
	May have Hydric Soil inclusions	> 60	0.37	Subsoil: low	SECONDARY PASTURE				
		10 - 20	0.37	Substratum: low	FORESTRY (HARDWOOD)				
		Mod.	C		MODERATE				
		Mod.							
10B	Very deep, somewhat poorly drained, yellowish brown loamy soils with intermittent high water tables in concave landscapes, along small drainageways and on alluvial fans; developed in recent colluvium/alluvium washed from basic and acidic rocks	2 - 7	Mod.	Surface: Moderate	AGRICULTURE	VERY POOR	MAY BE WITHIN 100-YEAR FLOODPLAIN; FREQUENT FLOODING; HIGH WATER TABLE; CONCENTRATED RUNOFF FROM HIGHER AREAS; OVERLAND FLOW-SIGNIFICANT DESTRUCTIVE POTENTIAL DURING FLOODING EVENTS	NOT SUITED	High water table
	May have Hydric Soil inclusions	> 60	0.37	Subsoil: low	SECONDARY PASTURE				
		10 - 20	0.37	Substratum: low	FORESTRY (HARDWOOD)				
		Mod.	C		MODERATE				
		Mod.							
43C	Very deep, well drained, yellowish-red silty soils on strongly sloping back slopes; developed in residuum from greenstone and chloritic schist	7 - 15	Mod.	Surface: Moderate	AGRICULTURE	GOOD	GOOD	GOOD	GOOD
		> 60	0.37	Subsoil: Moderate	SECONDARY CROPLAND				
		> 40	0.32	Substratum: Moderate	FORESTRY (HARDWOOD)				
		low	B		HIGH				
		Mod.							

45B	Fauquier silt loam	Very deep, well drained, red clayey soils on undulating summits and gently sloping backslopes; developed in residuum from massive greenstone and chloritic schist	Slope (%)	2 - 7	Erosional Hazard Potential:	Mod.	Surface: Moderate	AGRICULTURE	GOOD	MARGINAL Slow percolation
			Bedrock Depth (in.):	> 60	K Factor (surface):	0.32	Subsoil: Moderate	PRIME CROPLAND		
			Watertable Depth (in.):	> 40	K Factor (subsoil):	0.28	Substratum: Moderate	FORESTRY (HARDWOOD)		
			Shrink-Swell Potential:	Mod.	Hydrologic Group:	C		HIGH		
45C	Fauquier silt loam	Very deep, well drained, red clayey soils on strongly sloping backslopes; developed in residuum from massive greenstone and chloritic schist	Slope (%)	7 - 15	Erosional Hazard Potential:	Mod.	Surface: Moderate	AGRICULTURE	GOOD	MARGINAL Slow percolation
			Bedrock Depth (in.):	> 60	K Factor (surface):	0.32	Subsoil: Moderate	SECONDARY CROPLAND		
			Watertable Depth (in.):	> 40	K Factor (subsoil):	0.28	Substratum: Moderate	FORESTRY (HARDWOOD)		
			Shrink-Swell Potential:	Mod.	Hydrologic Group:	C		HIGH		
110A	Mongle Variant silt loam	Very deep, poorly drained, gray and yellowish brown clayey soils with high water tables in concave landscapes; along small drainageways and on alluvial fans; developed in recent colluvium/alluvium washed from basic and acidic rocks	Slope (%)	0 - 2	Erosional Hazard Potential:	Slight	Surface: Moderate	AGRICULTURE	VERY POOR May be within 100-year floodplain; Frequent flooding; Frequent ponding; Concentrated runoff from higher areas; Prolonged high water table; Overland flow-significant destructive potential during flooding events	NOT SUITED High water table Landscape position
			Bedrock Depth (in.):	> 60	K Factor (surface):	0.37	Subsoil: low	SECONDARY PASTURE		
			Watertable Depth (in.):	0 - 10	K Factor (subsoil):	0.37	Substratum: low	FORESTRY (HARDWOOD)		
			Shrink-Swell Potential:	High	Hydrologic Group:	C		MODERATE		
200	Cut and/or Fill	Disturbed areas of cutting and/ or filling	HIGHLY VARIABLE							
			Bearing Capacity:	low						
417B	Middleburg Variant loam	Very deep, well drained, brown loamy soils on gently sloping colluvial benches and toeslopes; developed in recent colluvium from basic crystalline rock materials	Slope (%)	2 - 7	Erosional Hazard Potential:	Mod.	Surface: Moderate	AGRICULTURE	GOOD Intermittent high water table	MARGINAL Landscape position
			Bedrock Depth (in.):	> 60	K Factor (surface):	0.37	Subsoil: Moderate	PRIME CROPLAND		
			Watertable Depth (in.):	> 40	K Factor (subsoil):	0.32	Substratum: Moderate	FORESTRY (HARDWOOD)		
			Shrink-Swell Potential:	low	Hydrologic Group:	B		HIGH		
417B	Middleburg Variant loam	Very deep, well drained, brown loamy soils on gently sloping colluvial benches and toeslopes; developed in recent colluvium from basic crystalline rock materials	Bearing Capacity:	Mod.						
			Bearing Capacity:	low						

1

CONCEPT B



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 28 BLACKWELL PARK LANE, SUITE 201
 WARRENTON, OR 97146
 Phone: (503) 848-4500
 Fax: (503) 848-4505
 VA@bohlereng.com

CONCEPTUAL PLAN
 FOR THE
 TOWN OF WARRENTON
 PROPOSED
 DEVELOPMENT
 8500 MEETZE ROAD
 WARRENTON,
 FAUQUIER COUNTY, VIRGINIA

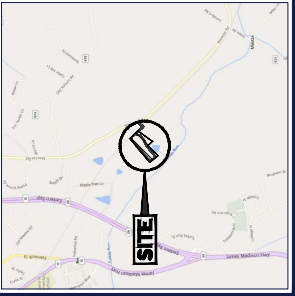
FOR CONCEPT PURPOSES ONLY
 PROJECT NO.: 19-001
 DATE: 07/20/19
 CHECKED BY: [Signature]
 DRAWN BY: [Signature]

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REVISIONS

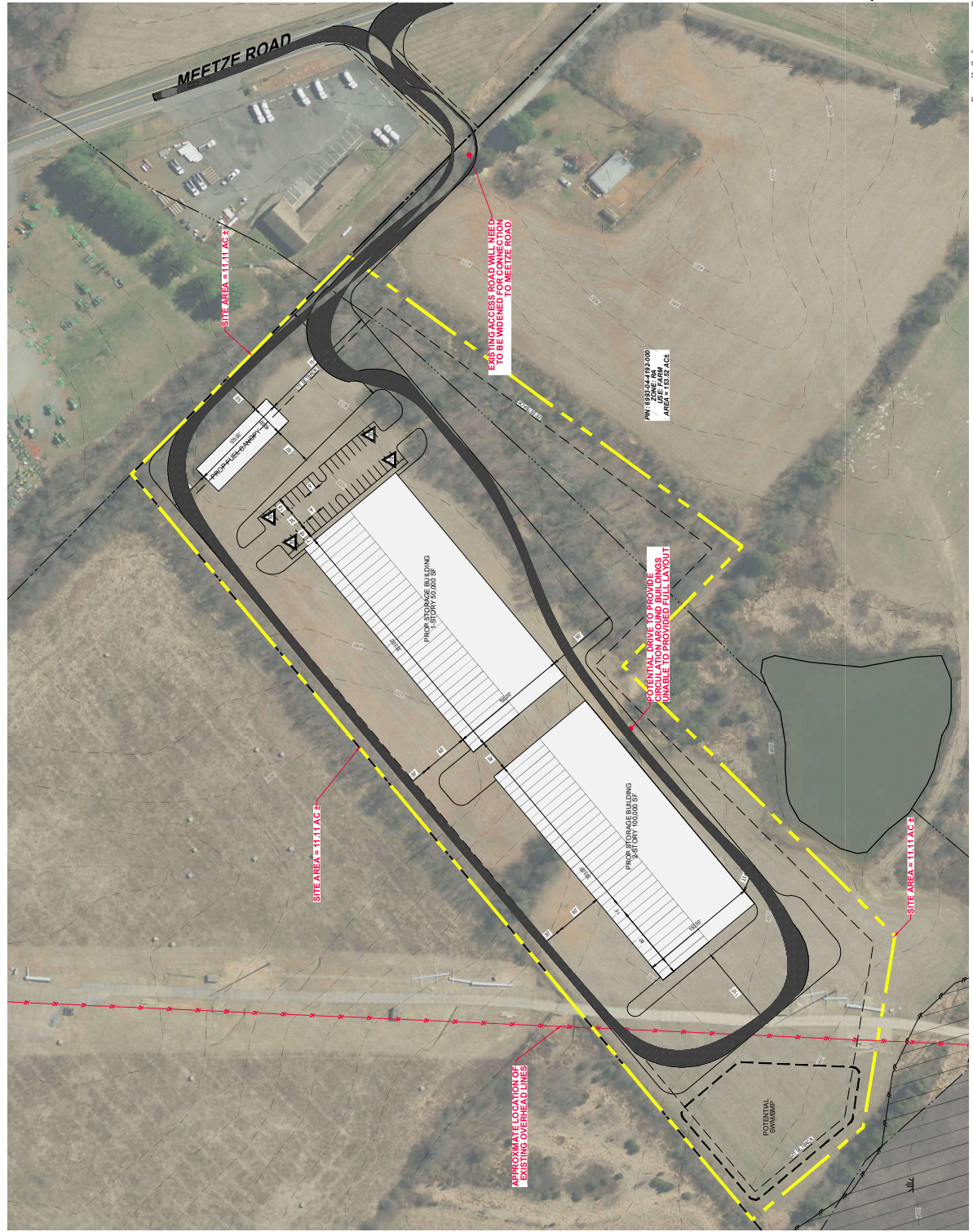
REV#	DATE	COMMENT

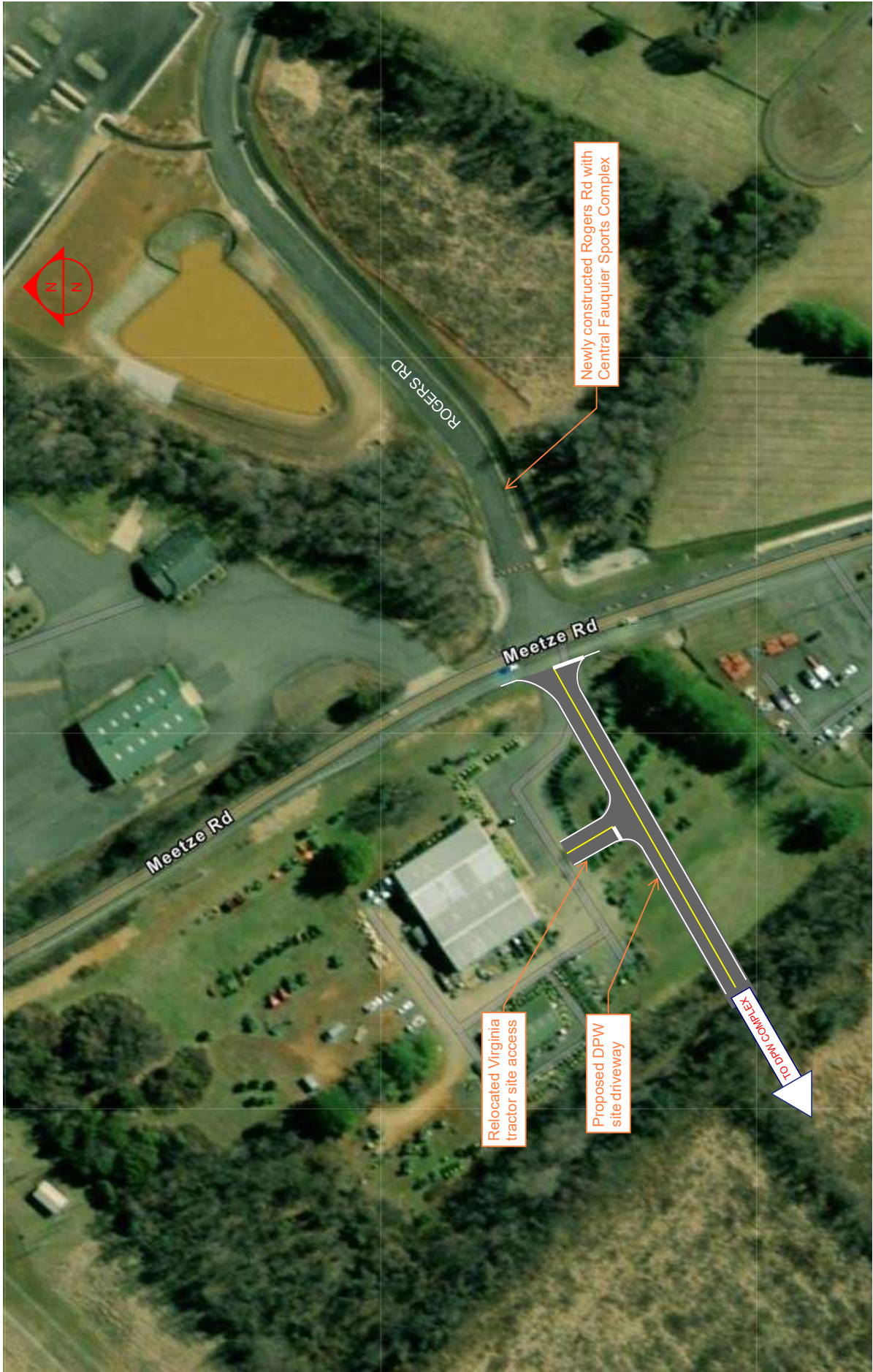
BOHLER
 SITE CIVIL AND CONSULTING ENGINEERING
 PROGRAM MANAGEMENT
 LANDSCAPE ARCHITECTURE
 SUSTAINABLE DESIGN
 PERMITTING SERVICES
 TRANSPORTATION SERVICES



CONCEPT PLAN NOTES
 1. THIS CONCEPTUAL PLAN IS PREPARED FOR CONCEPTUAL PURPOSES ONLY AND IS NOT TO BE USED FOR PERMITS OR CONSTRUCTION DOCUMENTS.
 2. THE PROPOSED DEVELOPMENT IS SUBJECT TO THE TOWN OF WARRENTON ZONING ORDINANCES AND OTHER APPLICABLE REGULATIONS.
 3. THE CONCEPTUAL PLAN IS PREPARED FOR CONCEPTUAL PURPOSES ONLY AND IS NOT TO BE USED FOR PERMITS OR CONSTRUCTION DOCUMENTS.
 4. THE CONCEPTUAL PLAN IS PREPARED FOR CONCEPTUAL PURPOSES ONLY AND IS NOT TO BE USED FOR PERMITS OR CONSTRUCTION DOCUMENTS.

PARKING TABULATION
 STAFF PARKING = 6 SPACES







Office of the Town Manager

Christopher E. Martino

STAFF REPORT

Warrenton Town Council

Carter Nevill, Mayor
Heather Sutphin, Ward 1
William Semple, Ward 2
Brett Hamby, Ward 3
James Hartman, Ward 4 Vice Mayor
Jay Heroux, Ward 5
Sean Polster, At Large
Renard Carlos, At Large

Item b.

Council Meeting Date:	December 13, 2022
Agenda Title:	Review and update on Public Works Facility feasibility study
Requested Action:	Informational only currently- for future direction and budgeting consideration
Department / Agency Lead:	Public Works and Utilities
Staff Lead:	Frank Cassidy

EXECUTIVE SUMMARY

Town Council requested staff begin a feasibility study for the possible construction of a new Public Works facility in October 2021. Town staff completed a high-level assessment of the current facility and engaged with County staff on possible sites for a new facility. There were three proposed locations within the County property on and adjacent to the current landfill operations. A presentation and discussion were held at the March 8, 2022, Council meeting. Direction was for staff to continue the feasibility study with a closer examination and assessment to include an environmental survey of the specific site identified as "Option A."

Staff held meetings with the County and engaged Bohler Engineering for the next steps of the study to include an environmental and wetlands study. These studies are completed and are being presented at this Council meeting to provide information for consideration for discussion of next steps and future budgeting for this project.

BACKGROUND

The Town Public Works and Utilities Department operate from an existing facility located at 360 Falmouth St, Warrenton. This is a seven-acre site located amongst residential uses. The site and the structures have been in use for Town operations since 1980's. Town operations and equipment needs, along with the aging of the structures inspired looking at alternatives.

A high-level assessment of the facility was provided by staff in October 2021. The assessment included the ability to properly store equipment, the condition of the structures on site, and the overall conditions of the office and staffing spaces at this facility. Overall, it was found the facility is not meeting the demands of current operations without extensive rehabilitation and updates.

The Town Manager began talks with County leadership to explore possible locations for a new Public Works facility. County staff directed Town staff to the existing County property being used for landfill and other operations and the property identified as Stafford Farms identifying ten (10) acres of land for the proposed facility. This property is located between Route 17 and Meetze Rd just outside of Town limits. Within the designated area, three possible 10 acre sites were identified as possible for the new facility. A general assessment of the three areas was completed and presented to Town Council for review and direction. At

the March 8, 2022, Council meeting, Option "A" was selected for the next phase of the assessment. Option "A" is located at the County landfill site, adjacent to the existing entrance to the landfill, the college, the new Virginia State Police office, and the remote water filling station for the Town which is under construction. Council directed staff and designated \$100,000.00 to fund the next phase. Bohler Engineering was requested to continue their assessments.

Bohler Engineering engaged in an environmental and wetlands study. The results were provided to Staff on November 10, 2022. The results of the study produced the following:

Geotechnical Summary:

- Encountered existing fill materials to maximum depths of approximately 28 feet below existing grades. It was not possible to determine whether these were placed in a controlled manner. There are assumptions and design recommendations in the report regarding this fill that the geotechnical engineer will need to verify once the design is further along.
 - Report assumes that the existing fill is suitable to place structures on top of based on densities during lab testing, but this will need to be confirmed
- Groundwater located between 17-33 feet below grade
- Note that the geotechnical study area is limited to the area from the original conceptual layout, as that is what we had on hand when they completed borings. The geotechnical engineer recommended waiting until we have a more final design to complete more borings and update the report.

Environmental Summary:

- Two RECs were found on the subject area, which are both tied to the adjacent landfill operations, specifically, the Historical Use Information and Site and Area Reconnaissance RECs, due to a large mound of construction material that has been stockpiled within the subject area
- At the time of this investigation, the environmental consultant prepared their report based on the original conceptual layout. They recommend updating both reports once feedback is received from Fauquier County and the site area has been finalized.
- The next step for environmental permitting will be to submit a PJD due to the proximity to wetlands. We would like to review the final layout with the environmental consultant once it is approved to confirm that this is still required.

Survey Status:

- Survey field work for the initial conceptual area is completed, but finalizing the survey is pending receipt of the title report

The next steps and projected costs are as follows:

Per our discussion, we recommend the following next steps:

- Confirming with the County that the site area is acceptable and will not change
- Releasing survey on additional topography for the increase in site area + set up formal Pre-Application Meeting w. County staff
 - Additional topography can be accommodated under current contract scope
- Then we will move onto the Rezoning Plan and Site Plan processes.

The breakdown of the estimated fees moving forward:

Outside Services: \$56,000

- Environmental Services: \$8,000
- Geotechnical Services: \$20,000
- Septic Design + Permitting: \$18,000
- Traffic Consultant Waivers: \$5,000
- Well Permitting: \$5,000

Zoning: \$30,000

- Pre-App and Concept Revisions: \$5,000
- Rezoning Plan: \$10,000
- Rezoning Plan Revisions: \$6,000
- Statement of Justification: \$3,000
- Zoning Meetings + Coordination: \$6,000

Site Plan + Plat: \$197,000

- Site Plan Prep + Revisions + Processing: \$120,000
- Stormwater Management Design: \$25,000
- Landscape Plan: \$8,000
- Subdivision + Easement Plat: \$20,000
- Site Plan + Plat Processing: \$10,000
- Site Plan Meetings + Coordination: \$14,000

Permits: \$28,000

- Bond Estimate + Processing: \$2,500
- Land Disturbance Permit: \$1,500
- VDOT Land Disturbance Permit + Bond Processing: \$5,000
- SWM Maintenance Agreement Facilitation: \$1,500
- SWPPP: \$5,000
- VSMP Permit: \$1,500
- Building Permit Processing: \$4,000
- Pump and Tank Permit Processing: \$3,500
- Canopy Permit Processing: \$3,500

Assumptions:

- Architectural services, Land Use Attorney services, and other services not expressly included above will be contracted directly with the Client
- Dry utility coordination is not included within the scope of services within this Contract.

- No offsite road improvements will be required except for the access drive connection to the right-of-way
- A maximum of one (1) VDOT Waiver will be required
- This contract includes incorporating up to two (2) rounds of comments from the Town of Warrenton at the time of County comment receipt
- This contract assumes that final architectural building footprints and utility connections are received prior to starting to prepare the Site Plan drawings.
- Bohler will prepare the landscape plan and will coordinate with a lighting consultant for the photometric plan
- Construction Administration Services are not included in this scope

Provide Update to recent Environmental Study and Topographic Survey: \$23,000.00

TOTAL FOR NEXT STEPS: \$334,000

Additionally, preliminary construction cost estimates will be in the area of \$30,000,000.00

STAFF RECOMMENDATION

Staff is providing this information to assist with Council's decision on the future of this project; specifically, to be considered during budgeting work sessions and providing direction moving forward.

Service Level / Policy Impact

These projects are in line with the Plan Warrenton 2040, Community Facilities Goals, CF-1, "Serve as the central inviting public service center for Town and County residents with a proportionate share of community services provided by other governments, including a fair and reasonable balance in funding sources for community facilities," and CF-5, "To provide a fiscally responsible infrastructure that maintains a high quality of life for residents, supports current businesses, and attracts new employers with a stable tax structure."

Fiscal Impact

\$334,000.00 for next stage of assessment, or portions outlined above and as identified; approximately \$30,000,000.00 for total construction project. Requires direction as to placement into CIP.

Legal Impact

Town attorney will be engaged in processes regarding zoning, easements, agreements, etc. as the project progresses and provide comments as necessary.

ATTACHMENTS

1. Council memo and presentation March 8, 2022
2. Engineering Study
3. Water shed study
4. Email from Bohler on next steps and estimated costs

EXPERIENCE



WARRENTON

• VIRGINIA •

EST.  1810

Public Works and Utilities Feasibility Study Update

Town Council Work Session

December 13, 2022

➤ Plan Warrenton 2040 adopted by Council

Item E.

- CF-1: “Serve as the central inviting public service center for Town and County residents with a proportionate share of community services provided by other governments, including a fair and reasonable balance in funding sources for community facilities.”
- CF-5: “To provide a fiscally responsible infrastructure that maintains a high quality of life for residents, supports current businesses, and attracts new employers with a stable tax structure.”

Item b.

Public Works and Utilities Feasibility Study

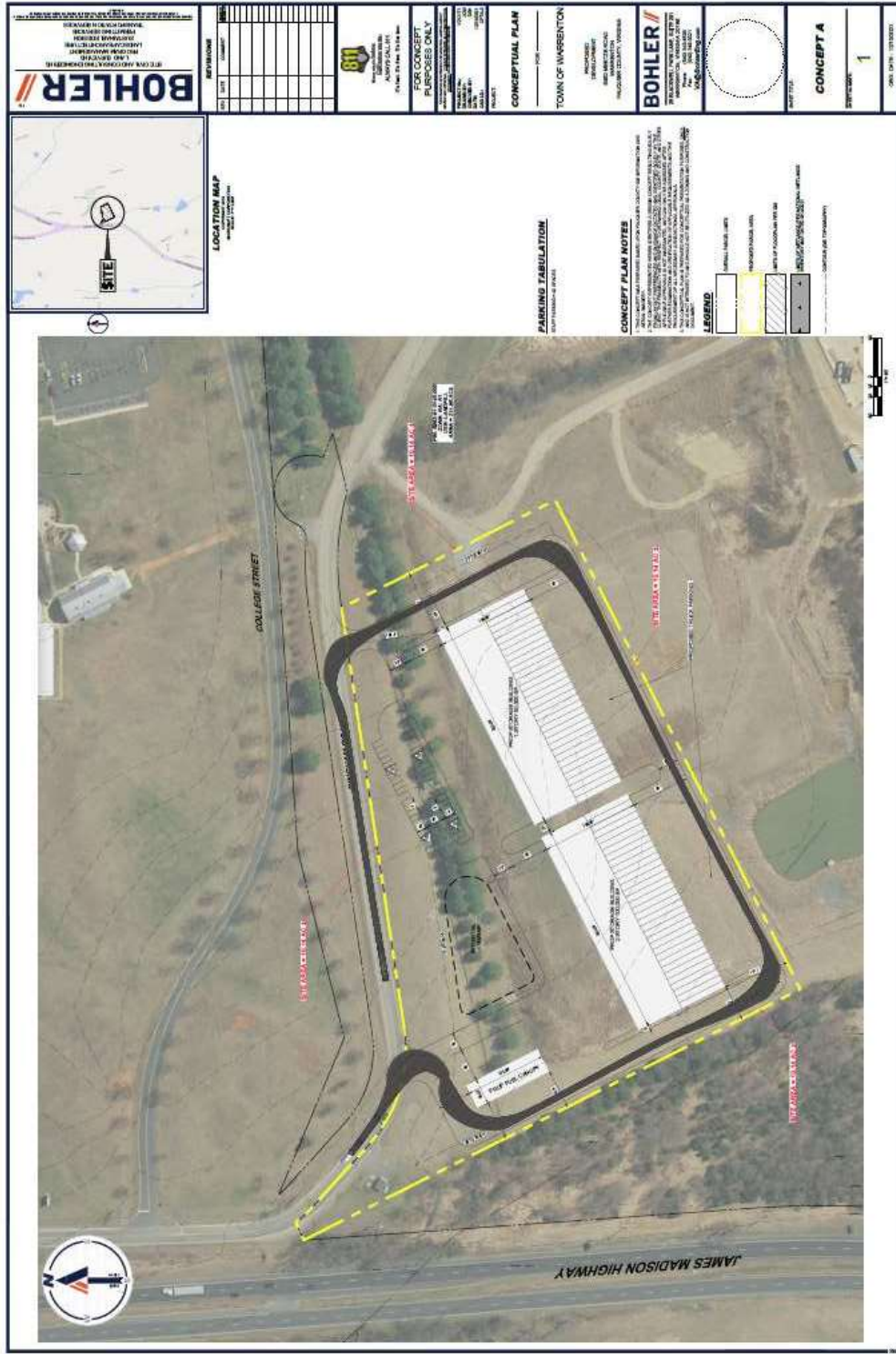
*Plan Warrenton 2040-
Community Facilities
Goals, CF-1 and CF-5*

Background

- 2021- Staff conducted an in-house assessment of the current facility and presented to Council
- Town Manager worked with County to identify potential 10-acre sites
- March 8, 2021, Council meeting- presented findings and Council authorized high level engineering study for selection site, Option “A”

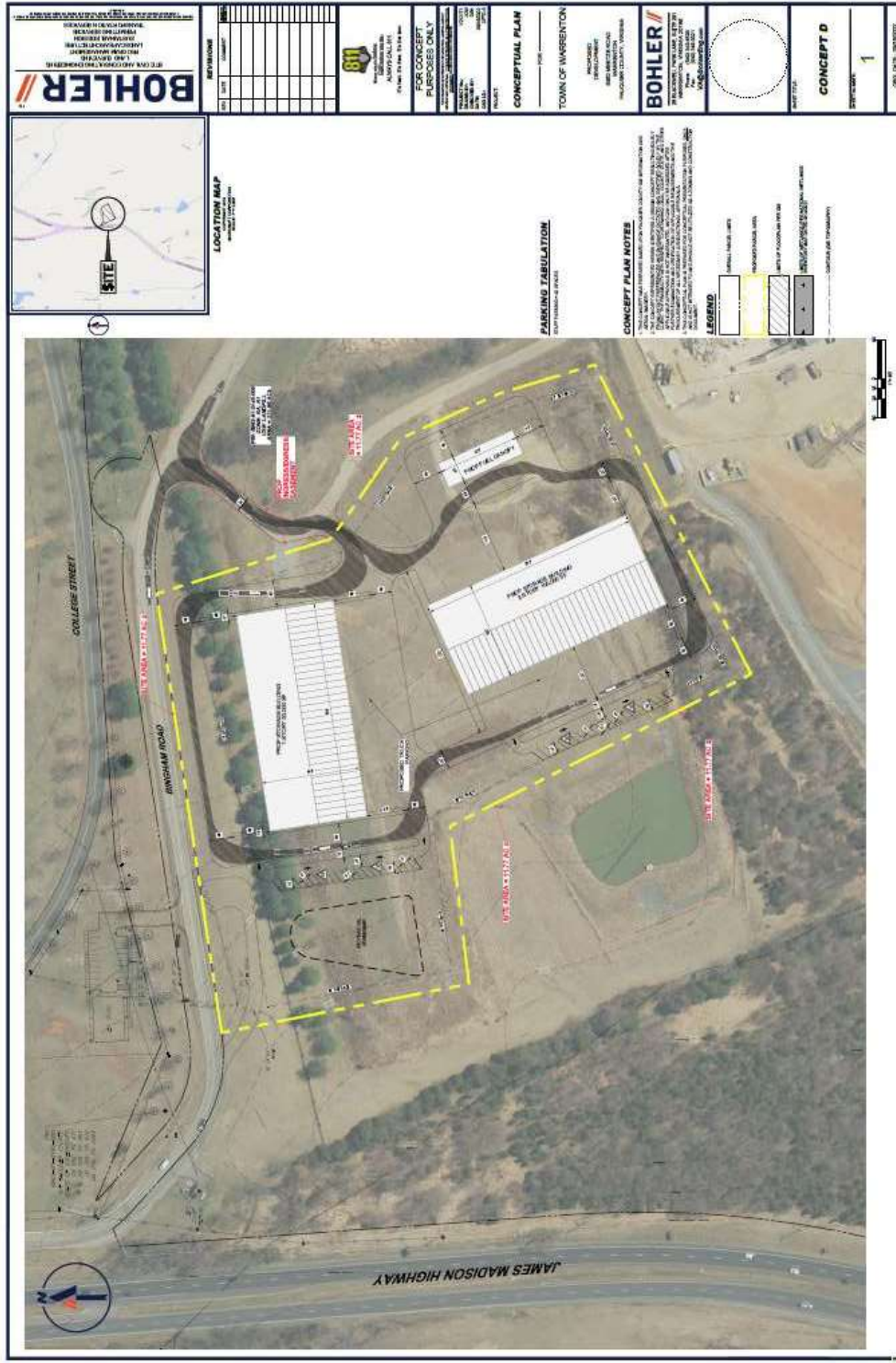


Background- Site Option "A"



Background- Site Option "A" Revised

Item E.



Item b.

Current Study Results

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- Confirming with the County that the site area is acceptable and will not change
- Releasing survey on additional topography for the increase in site area + set up formal Pre-Application Meeting w. County staff
 - Additional topography can be accommodated under current contract scope
- Then we will move onto the Rezoning Plan and Site Plan processes.
- Included into CIP



Proposed Next Steps

- **Outside Services: \$56,000**
 - Environmental Services: \$8,000
 - Geotechnical Services: \$20,000
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Proposed Next Steps

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 - Building Permit Processing: \$4,000
 - Pump and Tank Permit Processing: \$3,500
 - Canopy Permit Processing: \$3,500



Proposed Next Steps

Provide Update to recent Environmental Report and Topographic Study- Option "A" Revised: \$23,000.00

Total for Next Steps for Study:

\$334,000

Estimated Construction Costs:

\$30,000,000.00



Staff Recommendations

Staff is providing the information for consideration regarding budgeting as well as direction to next steps.



Questions

➤ Questions?



EXPERIENCE



WARRENTON

VIRGINIA



EST. 1810

**Town Council Work Session
Public Works Facility Study
March 8, 2022**

Beginning

- Council requested the first step was to get general information, complete an employee survey, and examine facility needs on requirements.
 - Access points
 - ADA
 - General safety
- The objective is to provide a facility for the next 20 years.
 - The purchase of 21 Main allowed for some relief with staff relocation.
 - Currently there are 7 positions from Public Works located at 21 Main. While is has provided some relief there is some challenge and loss with offsite allocations.



Current Challenges

- Public Works has occupied the current space since the 1980s, with minor upgrades and improvements.
- The age and current location have proven costly and counterproductive:
 - Storage spaces are open and not sufficient to store vehicles and equipment.
 - Multiple areas need upgrades or repairs- salt barn, bathrooms, and locker areas.
 - Office building need upgrades for space as well as IT upgrades.
 - Storage areas are disconnected, inhibiting a central location for supplies.

Assessment

- 2021 assessment identified the following challenges to begin the feasibility study:
 - Location- surrounded by residential uses—noise, dust, and other industrial uses are side effects to the residents
 - Aging Buildings- require significant repairs and replacements as not sufficient for current storage and fleet maintenance
 - Cannot upgrade ventilation and other equipment's at a reasonable cost (attempted with COVID)
 - General deferred maintenance has caused the run-down condition
 - Several compliance issues with minimal mitigation options.



Site Options

- Staff worked with Bohler Engineering to review possible locations with the County.
 - While several sites were identified, none are currently in Town based on space needs and land availability.
- Once these sites were identified, a more advanced study was completed—site fit test.
- Council requested staff to further examine the narrowed down sites.
 - Option 1- Landfill Side
 - Option 2- Meetze Road

Discussion and Questions



TOWN OF WARRENTON

Public Works and Utilities Department

PO BOX 341
WARRENTON, VIRGINIA 20188
<http://www.warrentonva.gov>
TELEPHONE (540) 347-1101
FAX (540) 349-2414

MEMORANDUM

TO: Brandie Schaeffer, Town Manager
FROM: Frank Cassidy, Director, Public Works and Utilities
DATE March 8, 2022
SUBJECT: Feasibility Study for new Public Works Facility

This memo aims to provide a brief overview of the feasibility study for a new Public Works facility, discuss our findings to date, and to request direction:

Brief History

The current Public Works facility, known as "The Shop", is located at 360 Falmouth St. The Shop is a former telephone company facility and is surrounded by residential properties. The Town has occupied and used the facility as their primary Public Works facility since the 1980's. The Shop has gone through some minor upgrades and improvements, however its age and current location are proving costly and counterproductive for on-site improvements.

Because of this, Town Council requested staff begin a high-level assessment of options for a new facility. Staff has been exploring some options at the County landfill/Stafford Farm property.

Challenges with the Current Site

An assessment of the current site was conducted in September and October of 2021. The following challenges were identified as being sufficient to begin the feasibility study:

- Location- surrounded by residential uses- noise, dust, other industrial use side effects.
- Aging buildings- many buildings require significant repairs and replacements; they are not sufficient for the current storage and maintenance of the fleet; unable to upgrade ventilation and other equipment at a reasonable cost (this was an issue with upgrades for COVID for example); and overall run-down facilities.
- Site has several DEQ violations which are difficult to address given the space and layout of the facility and neighboring properties.

Overview

The objective of this study is to provide an overview for the feasibility for a new Public Works facility. The first objective was to find appropriately sized land. Our assessment shows at least ten acres for a new facility. This land must be adjacent to, or within Town limits. The facility must also provide opportunity for a joint County/Town facility as an option. This has led us to the County property currently occupied and owned by the County for the landfill operations and associated with the Stafford Farm property. Three areas were identified as possible facility sites. Two were recommended for additional follow up and further discussion.

Conclusion

Staff is prepared to continue our efforts for the study based upon direction.

Public Works and Utilities Feasibility Study October 2021



Introduction

HISTORY: Town Council requested staff begin the process of a feasibility study for the development and construction of a new Public Works and Utilities facility.

PURPOSE: To begin a feasibility study for the relocation of the Public Works facility, known as the “shop” currently located at 360 Falmouth St.

CURRENT LOCATION FACTS: The existing facility is approximately 5.23 acres located at 360 Falmouth St, Warrenton, VA. This facility was originally uses as a telephone company service yard. The Town began using the property for their Public Works functions in the 1980’s. Over the years, several additions have been made to the property as the responsibilities and operations of the Town’s Public Works and Utilities Department grew. These improvements included additional office space, a large salt barn, and some covered storage space. Operations have and continue to be adjusted to fit in the space.

While the facility was growing, so were the adjacent residential properties. The current facility is surrounded by residential use. Hillsborough Condos, circa 1990, are north of the main entrance to the facility and share the east property line with the yard; Leeds Square Townhouses, circa 1983, shares the northwest property line of the yard; Aviary Townhouses, circa 1988, share the south property lines with the entrance way and yard; there are duplexes constructed in 2005 to the west which share the property line with the yard; and several single-family residential properties along Falmouth St. constructed from 1900 to the 1930’s.

The location of the current facility works well from an operations standpoint as it is within Town limits and has direct access to all points in Town for service with alternative routes if required. Residents are familiar with the location because it has been there so long; however, the increase in operations and equipment have an adverse effect on the surrounding residential uses. These include noise from trucks and OSHA warning devices at any given hour of day or night, especially during afterhours responses and snow response; dust and run off from the gravel drive areas; and the regular operation of commercial equipment in the residential area.

The size of the current facility does not function well. The limited space present challenges for properly storing vehicles and equipment, holding training and meetings, providing a clean work environment for staff, and complying with DEQ requirements. We have out grown the space.

A parcel detail and an aerial of the location are included in the Feasibility Notebook.

CURRENT LOCATION CHALLENGES: It is located within Town limits and is surrounded by residential properties. The site has aging buildings, is subject to DEQ violations; and is fundamentally suffering from the stress of functions and equipment out growing the space.

The most pressing issues are:

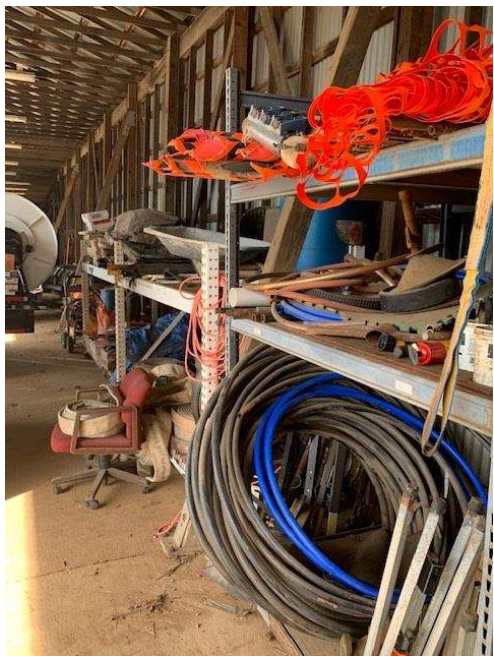
- Deteriorating structures used to store equipment and machinery:





- Existing structures are undersized and improperly equipped to protect equipment and machinery from the environment effectively:







- The grounds are gravel, stone, and dirt material which are a continuous maintenance issue for the surfaces as well as the equipment driving over it:

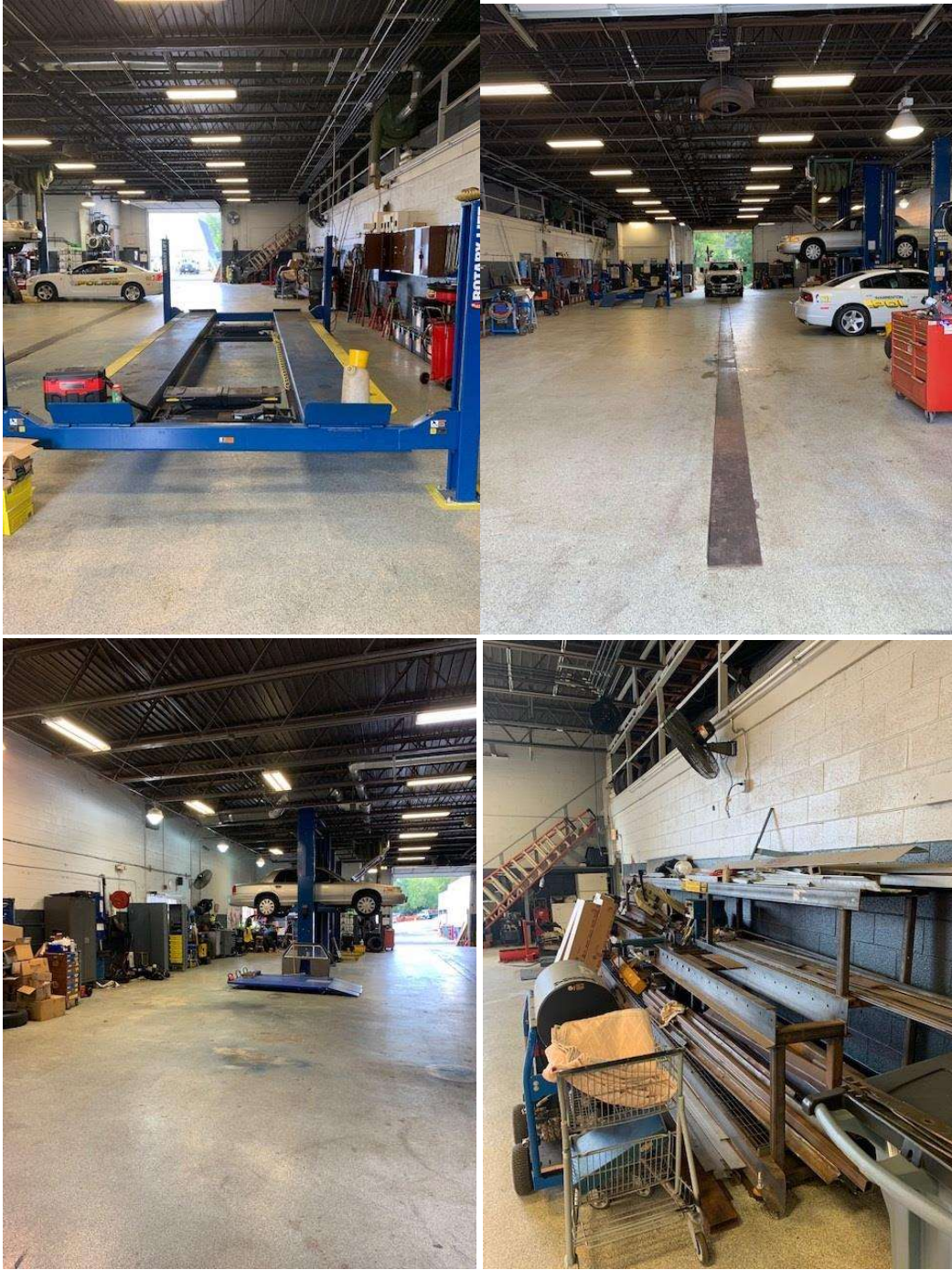




- The only truck wash is outside:



- The fleet garage is a multi-use area for storage, maintenance, meetings, welding, fabrication, vehicle outfitting, and other functions as necessary.





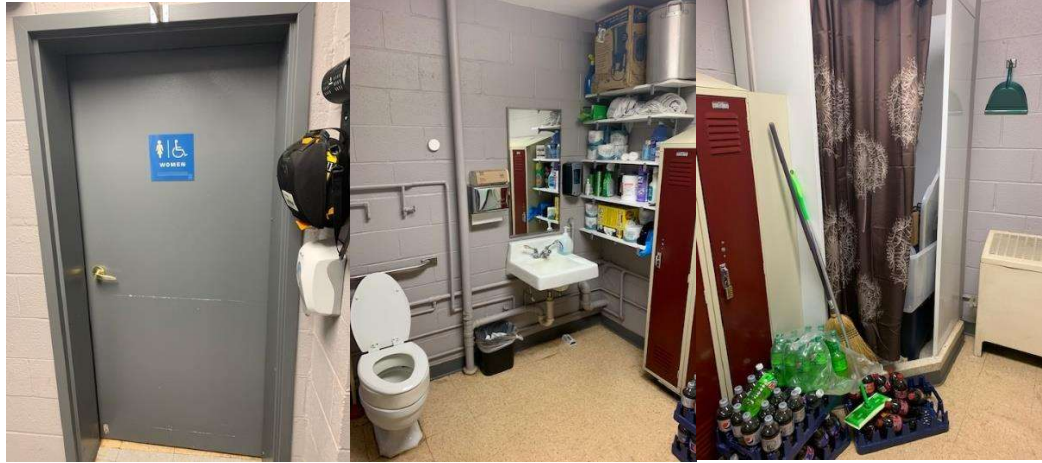


- Inadequate training room- Two stations:



- The bathrooms are in poor condition; there is no ladies locker room; the men's locker room is in poor shape; and the men's room does not have air conditioning.

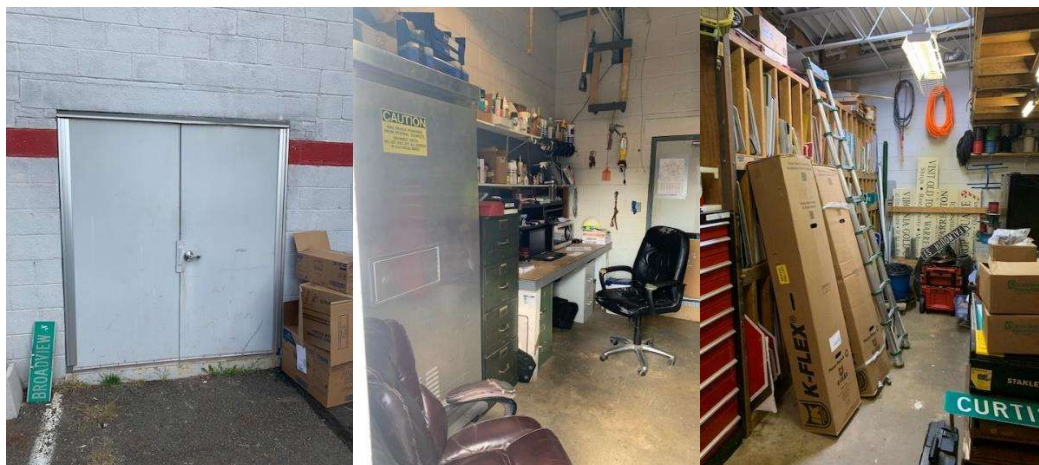
Ladies Room:



Men's Room:



- The sign “shop” is nothing but a storage room:



- The salt barn needs repairs and is not properly situated or improved to meet DEQ standards.

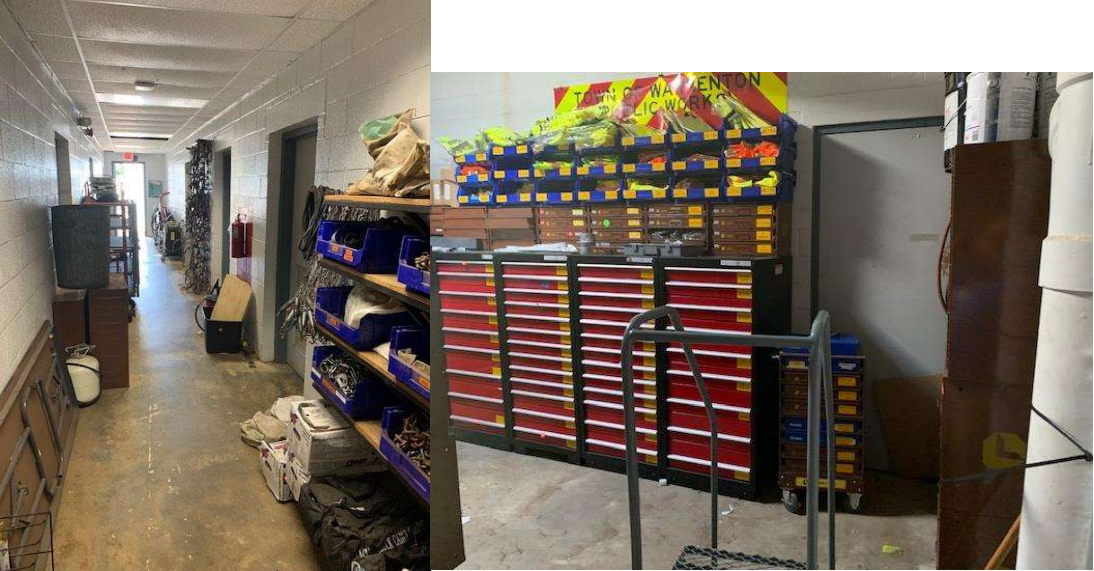
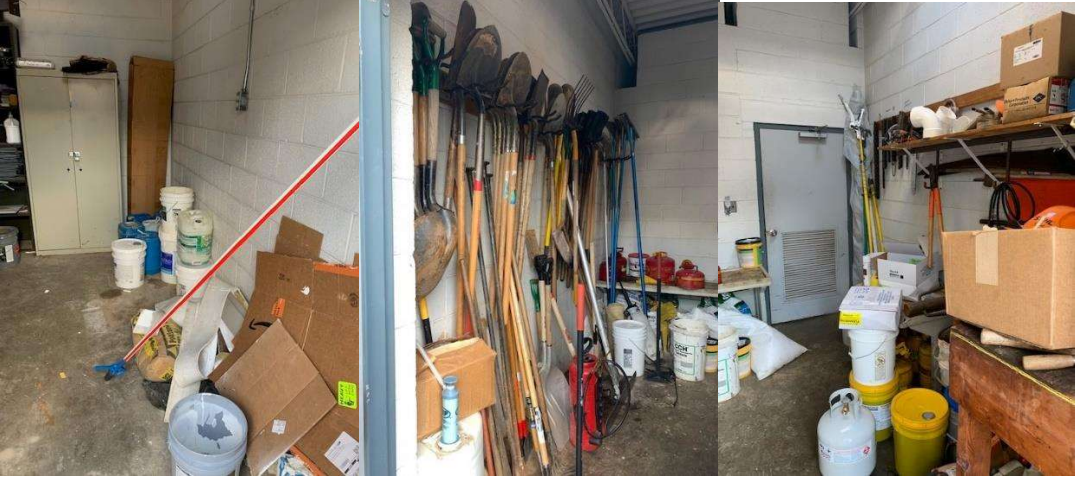
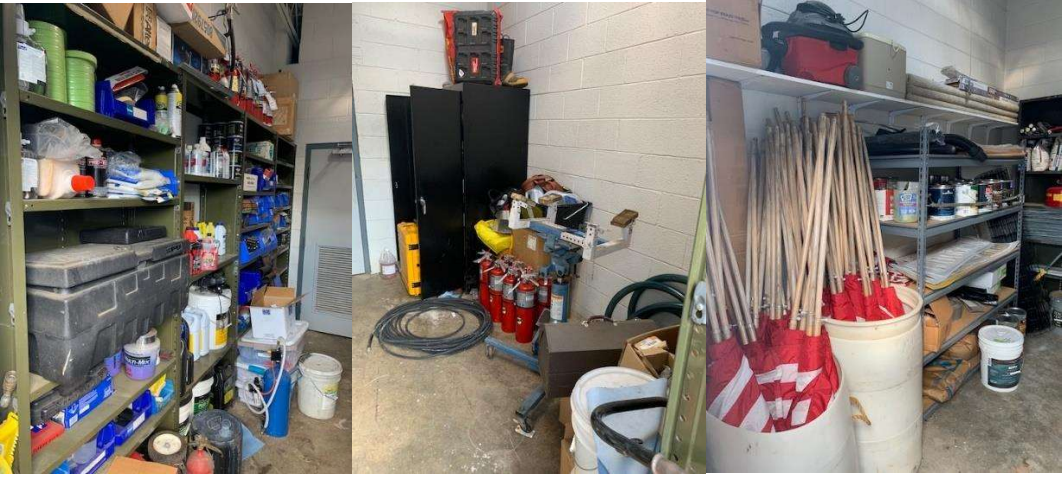


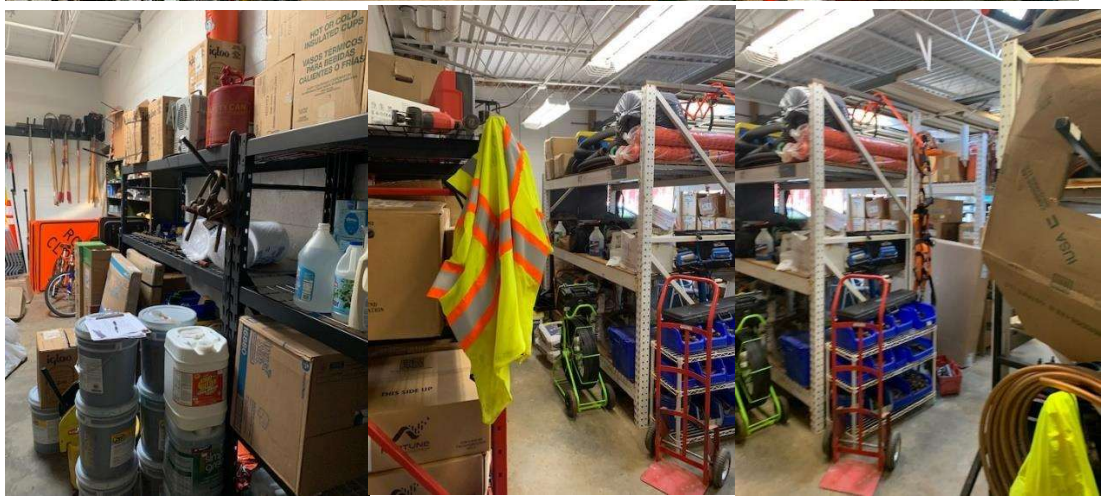


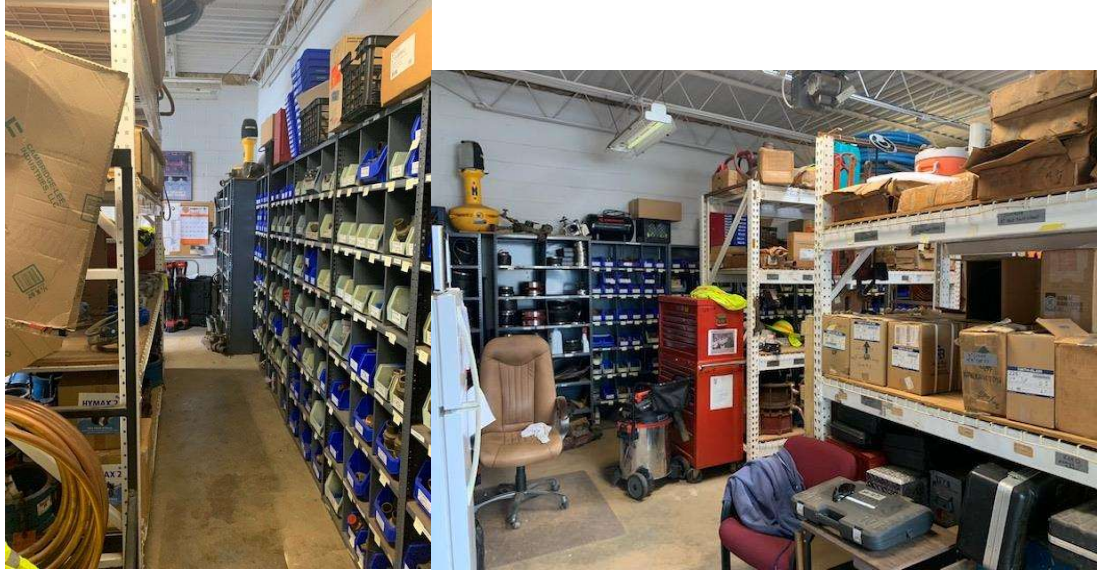
- The lunchroom is a multi-use room and does not provide adequate space or equipment for a truly functioning lunchroom for the number of staff.



- Inadequate storage rooms- rooms are separated and create a tracking challenge; halls used for extra storage space:







- Front counter and administration area is small and serves multiple uses:



- Inadequate employee parking: parking is adjacent to residential uses adding to the disruption:



-



- The site overall creates challenges on several levels for DEQ compliance:





- Fueling station does not have any cover; pumps are outdated; poorly situated at the main entrance of equipment to the yard:



- The location of the shop creates noise and disrupts the residential aspects of the surrounding properties, especially during an emergency response or night long responses to snow and ice.



PRELIMINARY STAFF REQUESTS: we engaged staff into this process. The objective is to make sure we capture the concerns from staff as the primary user of the current facility and any future facility. We engaged in face-to-face discussions as well as provided a survey. Copies of the survey are in the Feasibility Notebook. The results are:

From Face-to-face discussions:

- New restrooms with functional locker and shower rooms.
- A separate training room that can accommodate all staff for regular training and meetings.
- A separate fleet maintenance bay dedicated to fleet maintenance only.
- Inside truck washing station with a steam cleaning system.
- A designated fabrication and welding shop.
- A functional sign shop where signs can be repaired, fabricated, and refreshed as well as stored.
- A central supply area for storing and managing all supplies.
- A small equipment shop.
- HAZMAT supply and response unit storage space.
- New, upgraded salt storage and fuel dispensing areas.
- Adequate office space for each team supervisor, stormwater, utility T&D, and administration.
- Adequate space designated for staff access to computers with desk space for reports and individual training.
- Inspection's office to house all inspectors.

From Survey Results:

- Indoor storage.
- Training room.
- Indoor truck wash.
- Indoor salt storage.
- Lockers and showers.
- Lunchroom.
- Consolidated file and storage space.
- Emergency operations room/space.
- Adequate office accommodations.
- Separate welding and sign shop.
- Room for growth.

BASIC SPACE CONSIDERTIONS: The initial assessment of adequate operating space for Public Works is at least ten (10) acres of working space. When considering relocation, we must also consider the relationship with Town limits: in Town limits or outside of Town limits. This may be affected by boundary line adjustments as the Town moves forward. In short, the obvious efficiencies of having the shop located in Town limits start with response time to Town issues; distance traveled; fuel usage; and access. Moving the shop out of Town limits may interfere with our ability to respond as quickly as we would for example, snow routes may not be plowed. We will need to calculate distance, time, and costs for trips as we examine different sites.

Next, DEQ requirements must be taken into consideration. These will be addressed during site work and construction design; however, we must consider the costs of designing a facility meeting the DEQ requirements specifically for the salt and fuel storage and distribution.

Also, accessibility to sanitary sewer and water. Again, this will be addressed in site and construction design. At this point, the sites we are exploring will require significant improvements for these services. A study was done in 2019 for the Stafford Farm area. The report is attached.

For preliminary discussion, we submit the following square footage for specific space:

- Fleet mechanic shop and facilities- 20,000 sq. ft.
- Indoor garage storage- car, truck, and hot wash- 50,000 sq. ft.
- Central supply room- 20,000 sq. ft.
- General offices- 2250 sq. ft.
- Staff work areas- 2200 sq. ft.
- Conference room- 2000 sq. ft.
- Lunchroom- 1,000 sq. ft.
- Locker rooms and shower for all staff- industry standards.
- Fuel pumps with canopy- 5,000 sq. ft.
- Indoor aggregate storage to include salt/drive thru loading- 50,000 sq. ft.

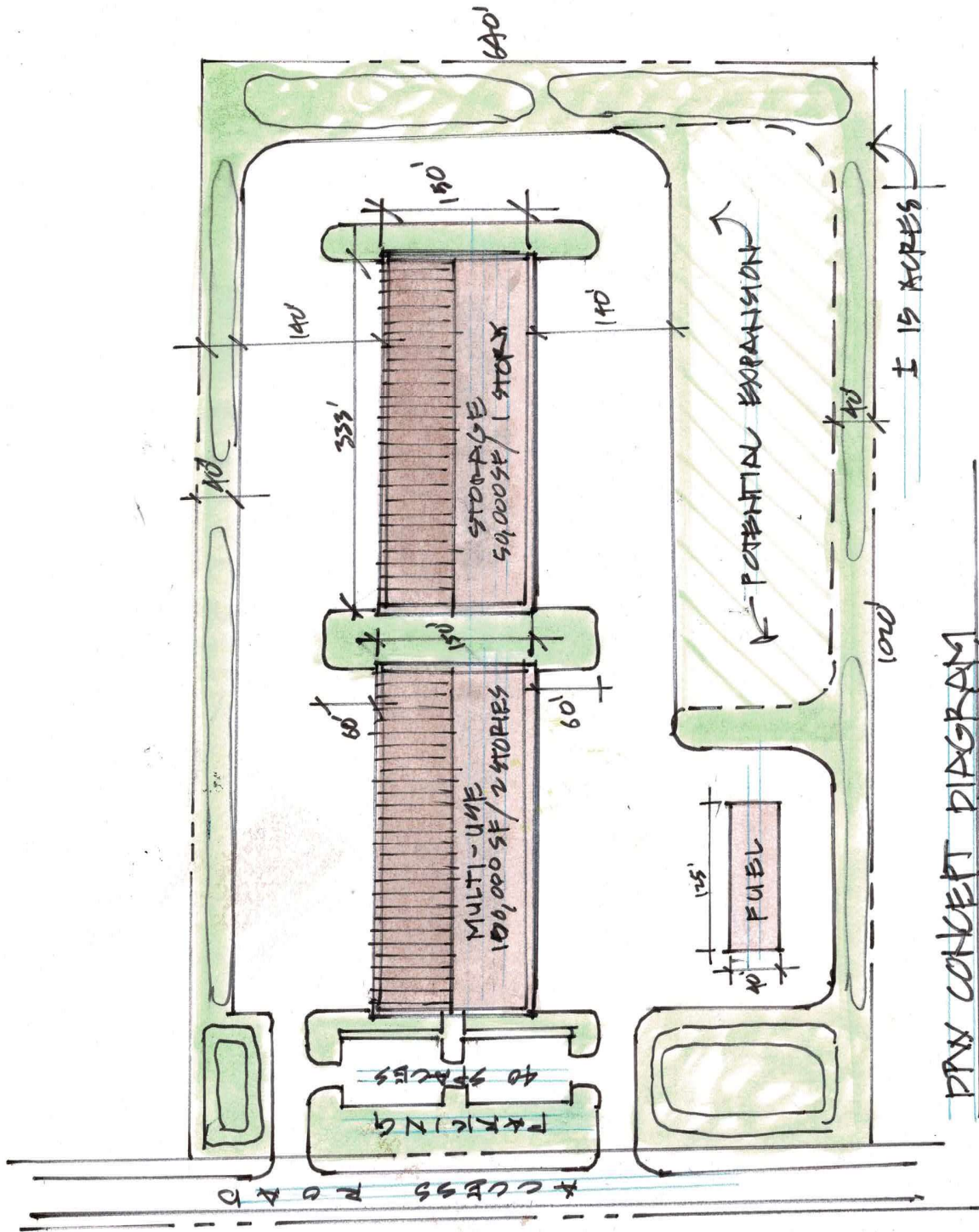
TOTAL UNDER ROOF OCCUPIED: 100,000 sq ft.

TOTAL UNDER ROOF STORAGE: 50,000 sq. ft.

SITE ANALYSIS: A report presented by Bohler Engineering was completed and submitted to staff on September 29, 2021. A full copy of the report is in the feasibility study notebook. The report includes site analysis and a sketch layout of the structure.

NEXT STEPS: We recommend the following as our next steps:

- Direction from Council to continue the study.
- Zoning analysis.
- Budget worksheet.



DRAW CONCEPT DIAGRAM
 BOHLER 1:2100 9/24/21

Future Department of Public Works Site Analysis

PREPARED FOR

Town of Warrenton
Fauquier County, Virginia
BE #V212171

BY

BOHLER //

28 BLACKWELL PARK LANE
SUITE 201
WARRENTON, VA 20186
(540) 349-4500

September 29, 2021

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PURPOSE

Bohler Engineering VA, LLC was contracted by the Town of Warrenton to conduct a desktop analysis of three (3) potential sites for the future Department of Public Works site. As we understand at this time, the Town will be purchasing 10-15± acres from Fauquier County. It should be noted that additional environmental, geotechnical and surveying studies should be completed on the preferred option.

SCOPE

Bohler Engineering VA, LLC has provided the following scope of work in order to complete the tasks noted above:

1. Review of FEMA, wetland inventory maps, and County GIS
2. Conduct site visit to obtain current site conditions
3. Prepare a Constraints Exhibit based on County GIS information

BACKGROUND

Site visits were conducted on three potential sites for the future Town of Warrenton Department of Public Works Site. Each site is shown at roughly 10 acres and located on larger parcels owned by Fauquier County Board of Supervisors. Option A is located on Bingham Road next to the Fauquier County Landfill. Option B is located on Meetze Road adjacent to the Fauquier Education Farm. Option C is located on the western side of the same Parcel as Option B. Of the three options investigated, our team would recommend pursuing Option A assuming soils on the site are adequate. If for any reason Option A presents complications that would prohibit development, Option B would be the next recommendation. Below are site conditions, photos, and analysis of site features for each option.

Option A:

PIN: 6983-81-0145-000

Address: 8499 Bingham Road

Total Parcel Acreage: 199.90 Acres

Proposed Use Acreage: 10.00± Acres

Existing Zoning: RA; R1

Proposed Zoning: I1

Wetlands/Floodplain: No

Additional Site Features:

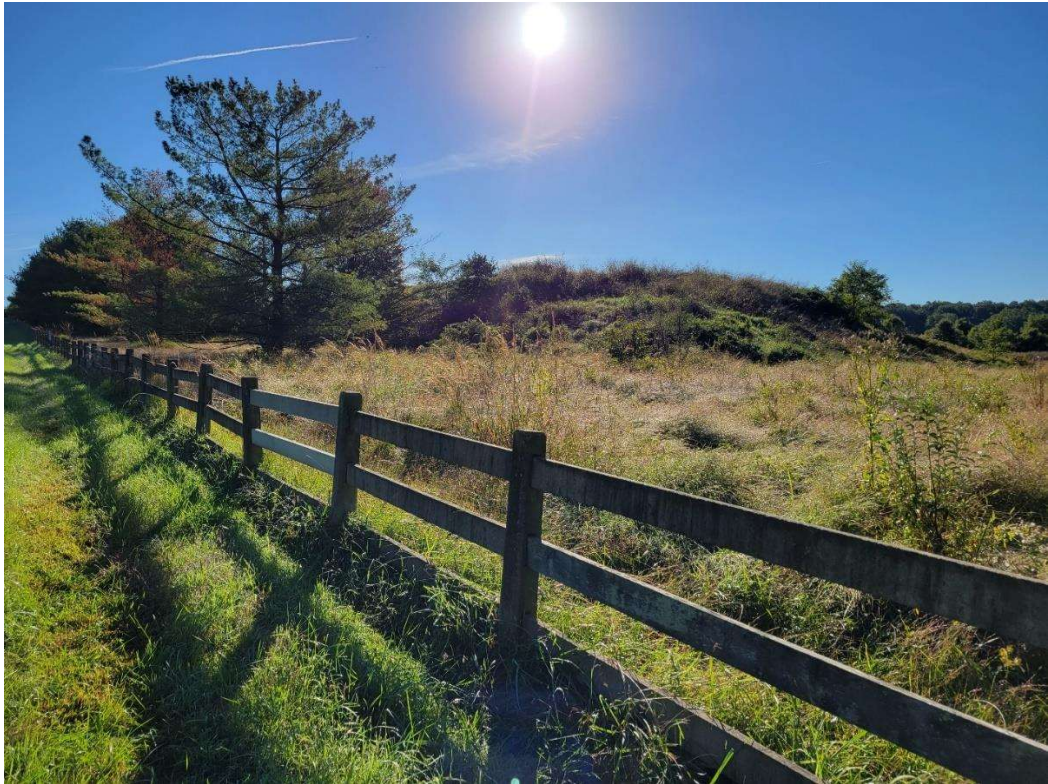
- Easy access to James Madison Highway and Town of Warrenton via existing Bingham Road.
- Two potential entrance locations; one existing.
- Adequate sight distance along Bingham Road.
- Slopes ranging from 2%-10% consisting of majority grass cover and an existing BMP pond.
- Existing stream between western property line and James Madison Highway.
- Existing tree screen along north side of property adjacent to Bingham Road.
- Area appears to be previous stockpile associated with landfill; a geotechnical report would be recommended to ensure soils are adequate for development.



Option A Photo 1: Westbound Bingham Road



Option A Photo 2: Eastbound Bingham Road.



Option A Photo 3: South side of site.



Option A Photo 4: North side of site along Bingham road.

Option B:

PIN: 6993-04-4192-000

Address: 8362 Meetze Road

Total Acreage: 153.52 Acres

Proposed Use Acreage: 10.11 Acres

Existing Zoning: RA

Proposed Zoning: I1

Easements: Electric (assumed)

Wetlands/Floodplain: Yes; 51061C0309C 02/06/2008; LOMR 15-03-0741P 06/09/2016

Additional Site Features:

- Easy access to Meetze Road and Town of Warrenton.
- Potential entrance location on northeast side of property.
- Access to Meetze Road may require access easement on adjacent neighbor.
- Sight distance adequate along Meetze Road.
- Existing walking trail along entire northeast property line.
- Slopes ranging from 5%-10% consisting of partially forested land.
- Existing stream along southeastern property line drains to pond south of property. Small portion of floodplain exists on site but development in the area could be avoided.
- Existing tree screen along northwest, northeast and southeast property lines.
- Area contains overhead electrical lines along southwest side of property.



Option B Photo 1: Existing tree line along northeast side of site.
Walking path located along entire northeast side of site.



Option B Photo 2: Existing vegetation southeast side of site. Overhead electric lines.



Option B Photo 3: Existing pond south of site.

Option C:

PIN: 6993-04-4192-000

Address: 8362 Meetze Road

Total Acreage: 153.52 Acres

Proposed Use Acreage: 10.10 Acres

Existing Zoning: RA

Proposed Zoning: I1

Easements: Electric (assumed)

Wetlands/Floodplain: Yes; 51061C0325C 02/06/2008; LOMR 15-03-0741P 06/09/2016

Site Features:

- Potential access road from existing landfill site (approximately 1,000 feet).
- Potential access road from existing Fauquier Education Farm site (approximately 2,500 feet). This would require an access road extend through approximately 500 of Turkey Run floodplain which would be costly.
- Easy access to Town of Warrenton via James Madison Highway or Meetze Road depending on access location.
- Sight distance appears to be adequate along both potential access points.
- Slopes ranging from 10%-20% consisting of heavily forested land outside of cleared area of overhead electric lines.
- Due to location, access to this site was not available and photos were obtained.

References

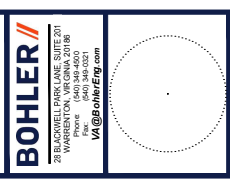
- Overall Constraints Plan
- Constraints Plan Option A (with Photo Map)
- Constraints Plan Option B (with Photo Map)
- FEMA Map (Option A)
- FEMA Map (Option B)
- FEMA Map (Option C)
- National Wetlands Inventory (“Wetlands 210916”)
- National Wetlands Inventory (“Warrenton”)
- Fauquier County GIS

REV	DATE	COMMENT

181
Virginia's Best
ALWAYS CALL 811
BEFORE YOU DIG
FOR CONCEPT PURPOSES ONLY

PROPOSED DEVELOPMENT
SINGLE-FAMILY RESIDENTIAL
FAUQUIER COUNTY, VIRGINIA

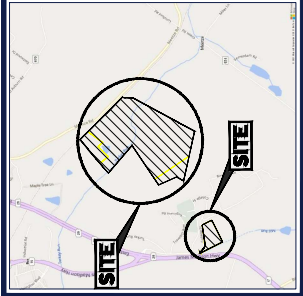
BOHLER
28 BARNWELL PARK LANE, SUITE 201
WARRENTON, OR 97146
Phone: (503) 848-4500
Fax: (503) 848-4505
VAE@bohlereng.com



SHEET TITLE
CONSTRAINTS PLAN OPTION B

SHEET NUMBER
2

Item b.

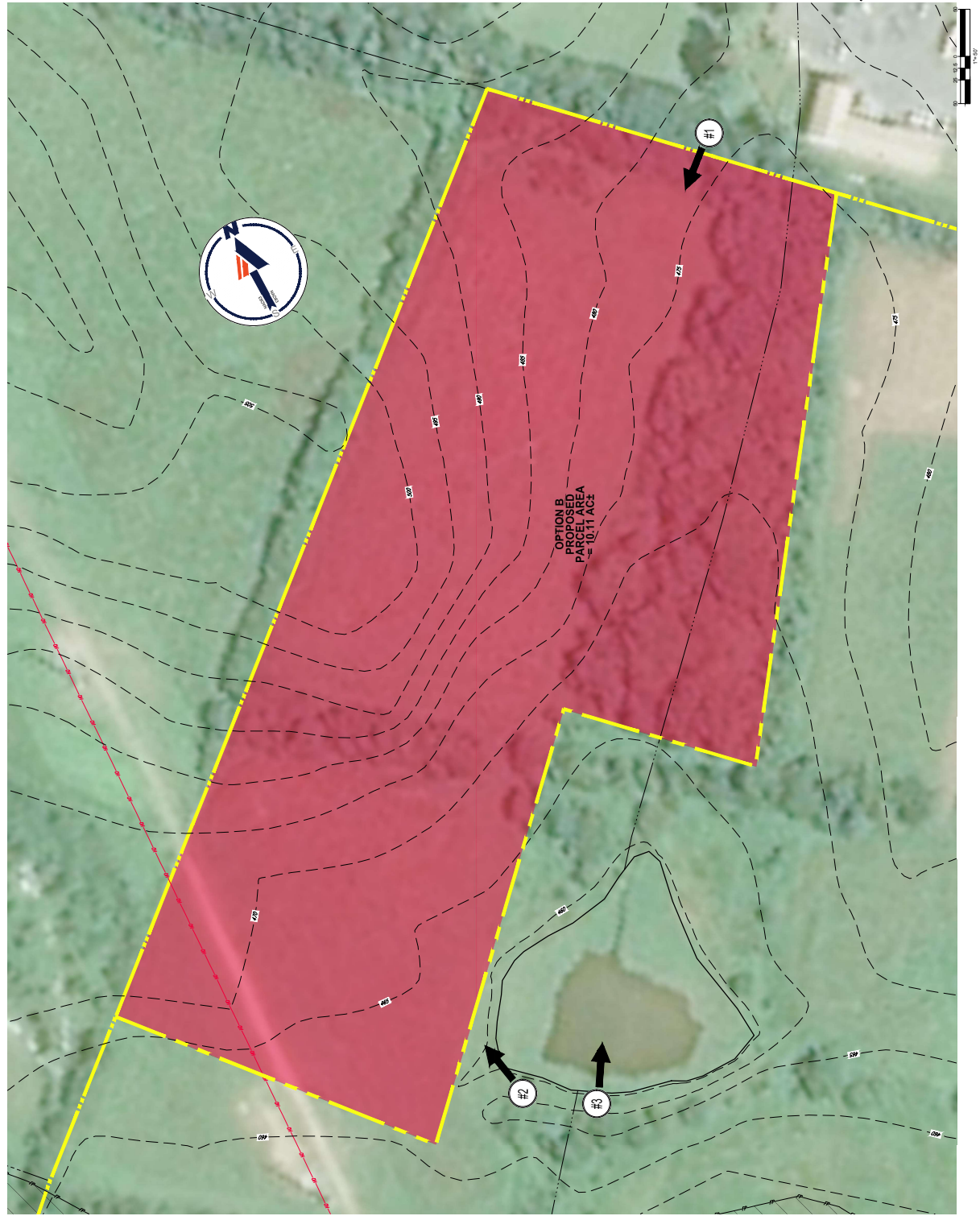


LOCATION MAP
SCALE: 1" = 300'

CONCEPT PLAN NOTES

1. THIS PLAN WAS PREPARED BASED UPON FAUQUIER COUNTY GIS INFORMATION AND AERIAL IMAGERY.
2. THIS PLAN IS FOR CONCEPT PURPOSES ONLY. IT IS NOT TO BE USED FOR ANY REGULATORY OR PERMITTING PURPOSES.
3. THE CONCEPTUAL PLAN IS FOR INFORMATION ONLY. IT IS NOT TO BE USED FOR ANY REGULATORY OR PERMITTING PURPOSES.
4. THE CONCEPTUAL PLAN IS FOR INFORMATION ONLY. IT IS NOT TO BE USED FOR ANY REGULATORY OR PERMITTING PURPOSES.

- LEGEND**
- OVERALL PARCEL LIMITS
 - PROPOSED PARCEL AREA
 - LIMITS OF FLOODPLAIN PER GIS
 - UNSATURATED ZONE PER GIS
 - CONTOUR (25' TOPOGRAPHY)



National Flood Hazard Layer FIRMette

77°47'26"W 38°41'N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FURTHER INFORMATION

Item E.

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE)
Zone A, V, A99
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

- 0.2% Annual Chance Flood Hazard. Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes, *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS OF FLOOD HAZARD

- NO SCREEN
- Area of Minimal Flood Hazard *Zone X*
- Effective LOMFRs
- Area of Undetermined Flood Hazard *Zone D*

OTHER AREAS

- Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall

GENERAL STRUCTURES

- Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

OTHER FEATURES

- Digital Data Available
- No Digital Data Available
- Unmapped

MAP PANELS

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/27/2021 at 2:47 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following elements do not appear: basemap imagery, flood zone legend, scale bar, map creation date, community id, FIRM panel number, and FIRM effective date. Map elements that are unmapped and unmodernized areas cannot be used for regulatory purposes.

Item b.



777

0 250 500 1,000 1,500 2,000 Feet 1:6,000

Basemap: USGS National Map: Orthoimagery. Data refreshed October, 2020

National Flood Hazard Layer FIRMette



77°46'41"W 38°41'39"N

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FULL MAP

Item E.

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE)
Zone A, V, A99
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
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0.2% Annual Chance Flood Hazard. Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*

Future Conditions 1% Annual Chance Flood Hazard *Zone X*

Area with Reduced Flood Risk due to Levee. See Notes, *Zone X*

Area with Flood Risk due to Levee *Zone D*

OTHER AREAS OF FLOOD HAZARD

- NO SCREEN *Zone X*
- Area of Minimal Flood Hazard *Zone X*
- Effective LOMFRs *Zone D*
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

- Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study

- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

OTHER FEATURES

- Digital Data Available
- No Digital Data Available
- Unmapped



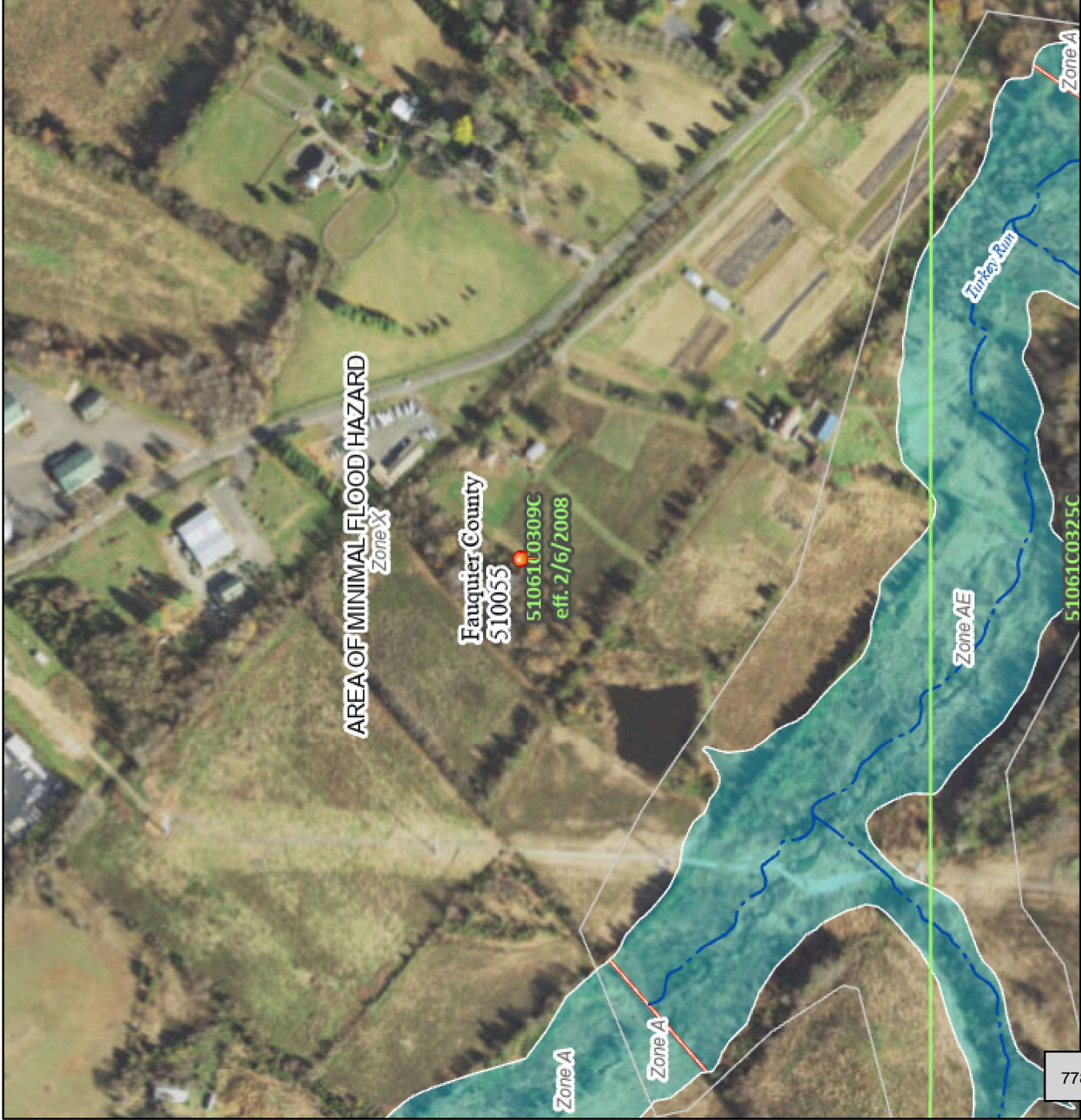
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Item b.



National Flood Hazard Layer FIRMette



77°46'53"W 38°41'10"N

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FULL MAP

Item E.

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE)
Zone A, V, A99
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
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0.2% Annual Chance Flood Hazard. Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*

- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes, *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS OF FLOOD HAZARD

- NO SCREEN
- Area of Minimal Flood Hazard *Zone X*
- Effective LOMFRs
- Area of Undetermined Flood Hazard *Zone D*

OTHER AREAS

- Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall

GENERAL STRUCTURES

- Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary

OTHER FEATURES

- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

- Digital Data Available
- No Digital Data Available
- Unmapped

MAP PANELS

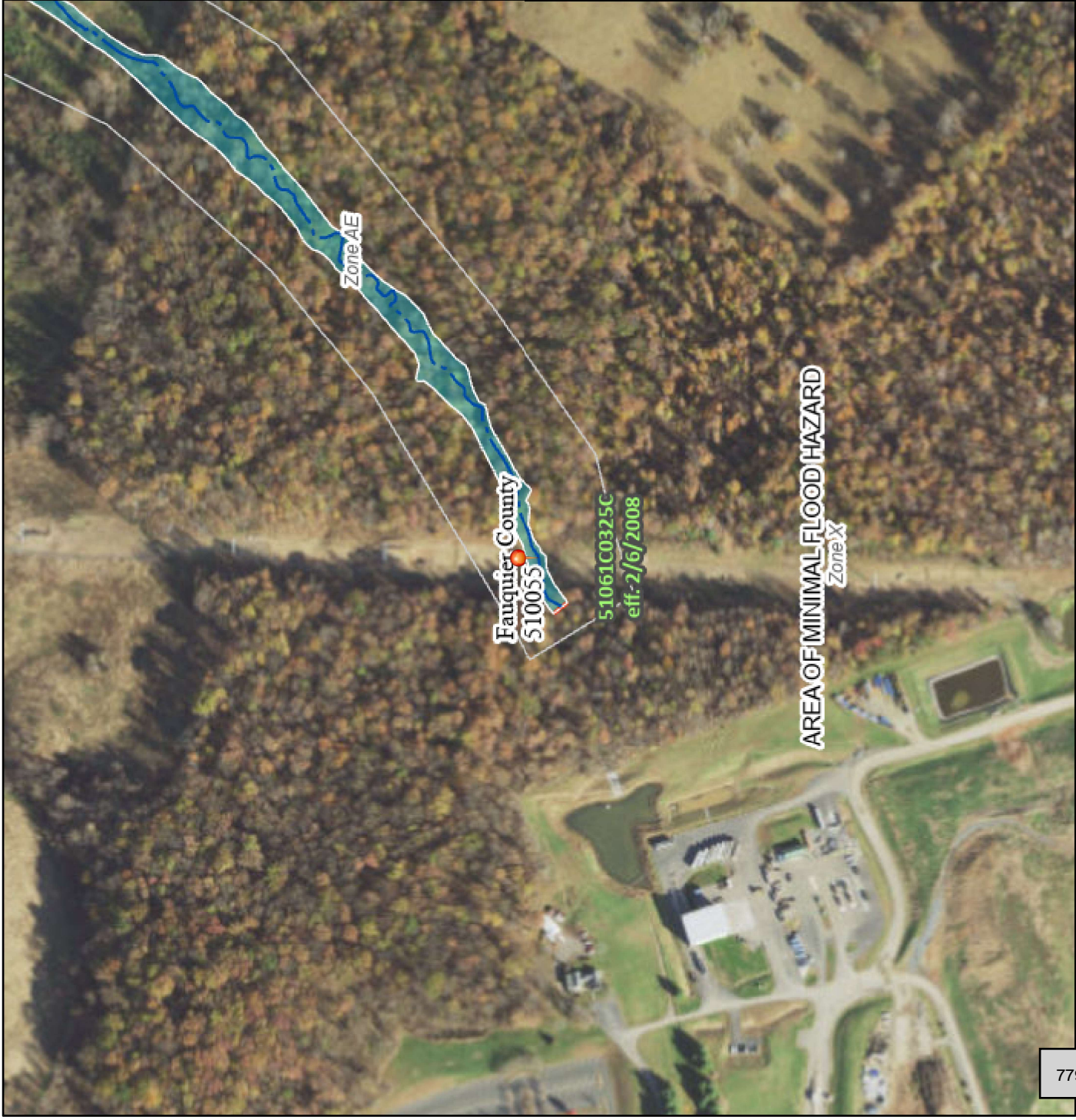
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/27/2021 at 2:44 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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Item b.



77°46'16"W 38°40'42"N
 Feet 1:6,000
 2,000
 1,500
 1,000
 500
 250
 0
 Basemap: USGS National Map: Orthoimagery. Data refreshed October, 2020



U.S. Fish and Wildlife Service
National Wetlands Inventory

wetlands 210916

Item E.



September 16, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

780

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Item b.

National Wetlands Inventory (NWII)
This page was produced by the NWII mapper

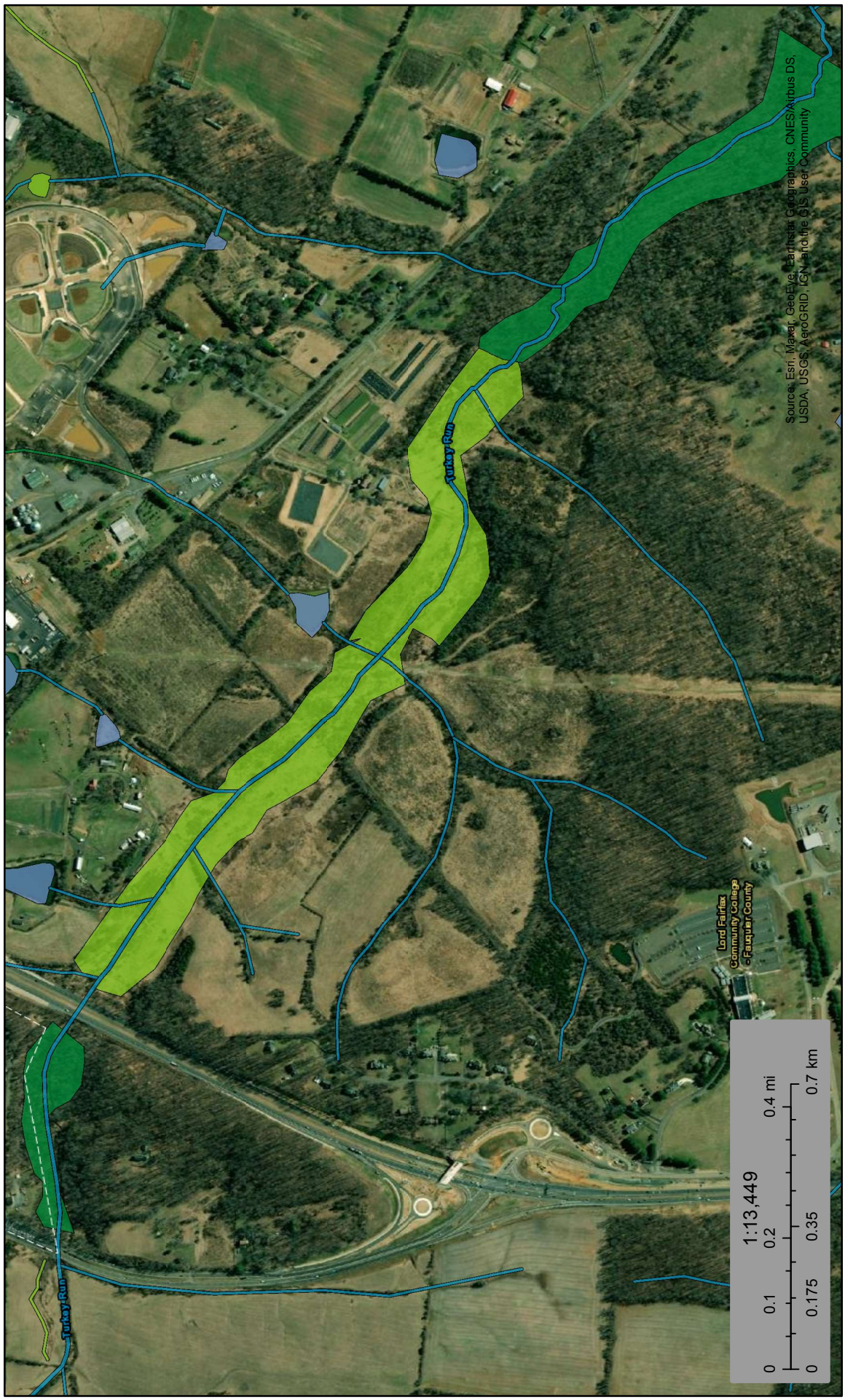


U.S. Fish and Wildlife Service

National Wetlands Inventory

warrenton

Item E.






Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

September 14, 2021

Wetlands

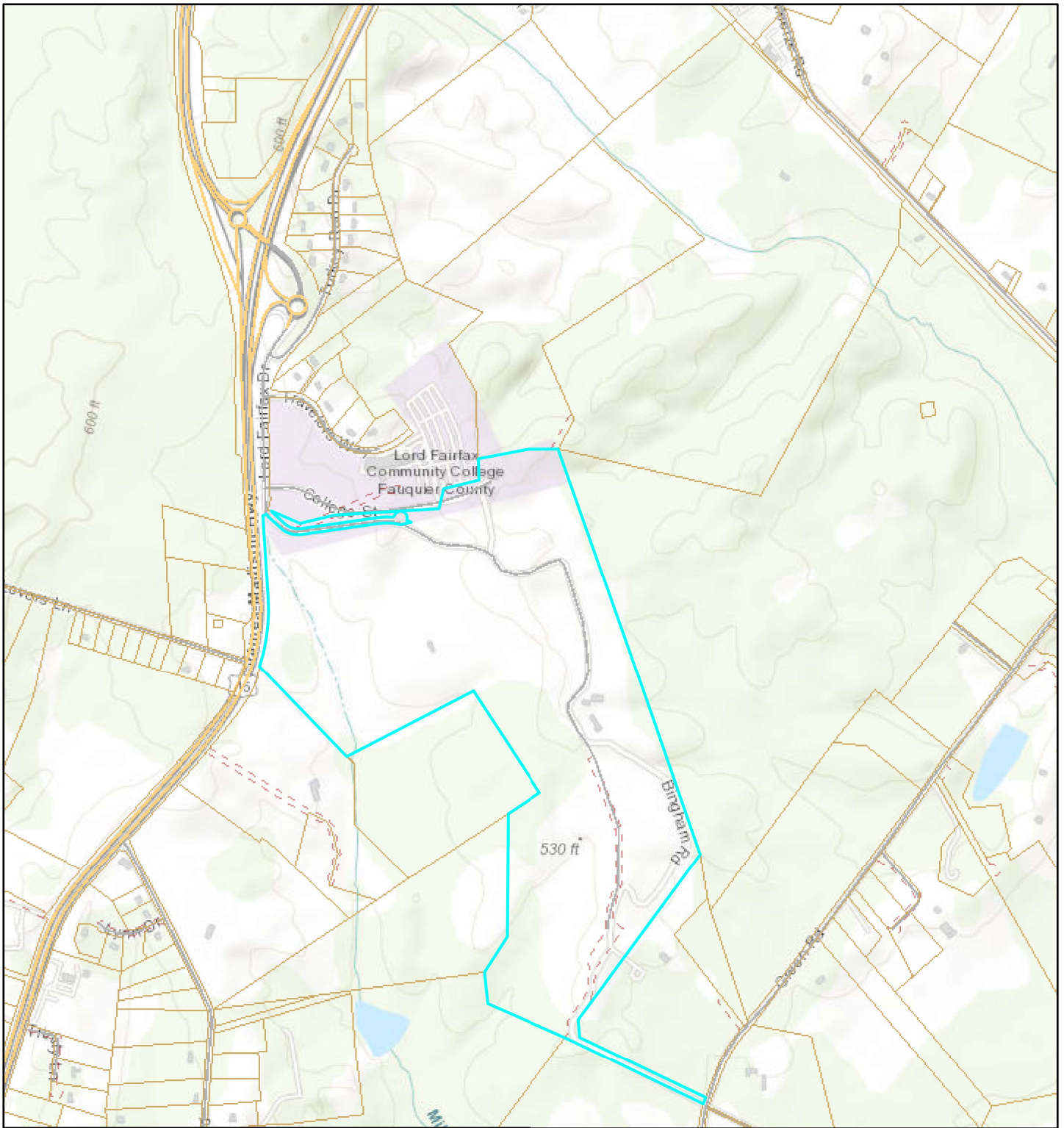
-  Estuarine and Marine Deepwater
-  Freshwater Emergent Wetland
-  Freshwater Forested/Shrub Wetland
-  Freshwater Pond
-  Lake
-  Other
-  Riverine

781

Item b.

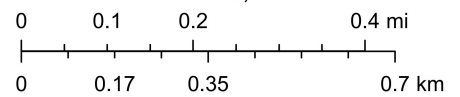
Tax Parcel Viewer - Property Report

Item b.



9/29/2021, 4:18:34 PM

1:18,056



- | | |
|-----------------------|---------------------------------------|
| ● Towns_18K | — Road Centerlines_without labels_18K |
| ● TownsPts_18K | — MAJOR |
| ■ School Location_18K | — MINOR; RAMP |
| -- Municipal | — COUNTY |
| + Railroad_18K | — LOCAL |
| □ TaxParcel_18K | — PRIVATE |
| | -- Encumbrances_18K |

VITA, West Virginia GIS, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA, Bloomfield Township MI, Esri., Inc.

Parcel Detail for PIN 6993-04-4192-000

Street Address: 8362 MEETZE RD

Legal Description:

Current Assessment Summary

Improvements Value	Land Value	Deferment	Total Taxable Value
\$166,300	\$2,199,600	\$0	\$2,365,900

Parcel	Improvements	Land	Transfers
--------	--------------	------	-----------

Owners : BOARD OF SUPERVISORS OF FAUQUIER COUNTY

Subdivision :

Map Sheet : 6993.00

Landscape : AVERAGE

Road Type : PAVED

Topography : ON GRADE

ROLLING

Book/Page 1218/1340 DEED

& Instrument :

Ancestors : 6983-93-5702-000 (/Details/6983935702000)

Mailing Address : 10 HOTEL ST 2ND FLR
WARRENTON, VA 20186

Neighborhood :

Neighborhood Group : 0004

Tax District : CEDAR RUN

Class : GOVERNMENT

Acreage : 153.5214

Utilities : WELL WATER
SEPTIC TANK

Zoning : AGRICULTURE DISTRICT

Descendents :

Transfer Notes : 2019-ACCORDING TO COMM DEV 197.28AC IS ACTUALLY TWO SEPARATE LOTS OF RECORD THEREFORE 197.28A IS DIV INTO 72.0AC & 125.28AC (ACS ESTIMATES ONLY) 2020-BDY LINE ADJUST BTWN 218.2593AC (6983- 81-0145); 125.6282AC (AC CORR FR 125.28AC) (6993- 04-4192) & 71.5987AC (AC CORR FR 72AC) (6983-83- 8350) TO CREATE A PCL OF 211.9648AC; 153.5214AC & 50.0AC - PL DB 1603/902

Land Conservation Easement Summary

Purchase of Development Rights	County of Fauquier	Open Space Easement	Oth
			<i>Item b.</i>

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Parcel Detail for PIN 6983-81-0145-000

Street Address: 8499 BINGHAM RD

Legal Description: RESIDUE

Current Assessment Summary

Improvements Value	Land Value	Deferment	Total Taxable Value
\$1,744,200	\$0	\$0	\$1,744,200

Parcel	Improvements	Land	Transfers
--------	--------------	------	-----------

Owners : BOARD OF SUPERVISORS OF FAUQUIER COUNTY

Subdivision :

Map Sheet : 6983.00

Landscape : AVERAGE

Road Type : PAVED

Topography : ON GRADE

ROLLING

Book/Page 692/431 DEED

& Instrument :

Ancestors : 6983-61-8156-000 (/Details/6983618156000)

Mailing Address : 10 HOTEL ST 2ND FLR
WARRENTON, VA 20186

Neighborhood :

Neighborhood Group : 0004

Tax District : CEDAR RUN

Class : GOVERNMENT

Acreage : 199.8988

Utilities : WELL WATER
SEPTIC TANK

[View 1 more](#)

Zoning : AGRICULTURE DISTRICT
RES, 1 DWELL/AC

Descendents :

Item b.

Transfer Notes : 1998-47.4176AC FROM 267.1927AC OF FAUQ CO BD OF SUP LVING 219.7751AC THEN 47.4176
 MERGED W/ 2.5824AC OF STATE BD FOR COMM COLLEGES TO MK 50AC DB 789/1738 PL 1744 2001-PLAT RECRD
 WHEREAS 1.5207 AC DEDICATED TO PUBLIC STREET USE -DB 869/1863 2020-BDY LINE ADJUST BTWN 218.2593AC
 (6983- 81-0145); 125.6282AC (AC CORR FR 125.28AC) (6993- 04-4192) & 71.5987AC (AC CORR FR 72AC) (6983-83- 8350)
 TO CREATE A PCL OF 211.9648AC; 153.5214AC & 50.0AC - PL DB 1603/902 2022-12.066AC IS DIV OUT OF 211.9648AC
 (6983-81- 0145) LVG A PCL OF 199.8988AC THEN 12.066AC IS CONV FR FAUQUIER CO BD OF SUPV TO FAIRFAX COMM
 COLLEGE EDUCATIONAL FOUND INC TO BE MERGED W/THEIR 50.0AC (6983-83- 8350) TO CREATE ONE PCL BEING
 62.0660AC - DB 1700/786 PL 791

Land Conservation Easement Summary

Purchase of Development Rights	County of Fauquier	Open Space Easement	Other

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From: [Katherine Roberts](#)
To: [Frank Cassidy](#)
Cc: v212171@nf.bohlereng.com
Subject: Town of Warrenton - DPW Building
Date: Thursday, November 17, 2022 2:44:27 PM
Attachments: [image001.png](#)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Frank,

Thank you for walking me through where you stand with the project.

Per our discussion, we recommend the following next steps:

- Confirming with the County that the site area is acceptable and will not change
- Releasing survey on additional topography for the increase in site area + set up formal Pre-Application Meeting w. County staff
 - Additional topography can be accommodated under current contract scope
- Then we will move onto the Rezoning Plan and Site Plan processes.

Please see below for a breakdown of the estimated fees moving forward after the current contract scope is completed.

Let me know what else you may need for your presentation – and have a great Thanksgiving if we don't chat before next week.

Thank you,

Outside Services: \$56,000

- Environmental Services: \$8,000
- Geotechnical Services: \$20,000
- Septic Design + Permitting: \$18,000
- Traffic Consultant Waivers: \$5,000
- Well Permitting: \$5,000

Zoning: \$30,000

- Pre-App and Concept Revisions: \$5,000
- Rezoning Plan: \$10,000
- Rezoning Plan Revisions: \$6,000
- Statement of Justification: \$3,000
- Zoning Meetings + Coordination: \$6,000

Site Plan + Plat: \$197,000

- Site Plan Prep + Revisions + Processing: \$120,000
- Stormwater Management Design:\$25,000
- Landscape Plan: \$8,000
- Subdivision + Easement Plat: \$20,000
- Site Plan + Plat Processing: \$10,000
- Site Plan Meetings + Coordination: \$14,000

Permits: \$28,000

- Bond Estimate + Processing: \$2,500
- Land Disturbance Permit: \$1,500
- VDOT Land Disturbance Permit + Bond Processing: \$5,000
- SWM Maintenance Agreement Facilitation: \$1,500
- SWPPP: \$5,000
- VSMP Permit: \$1,500
- Building Permit Processing: \$4,000
- Pump and Tank Permit Processing: \$3,500
- Canopy Permit Processing: \$3,500

Assumptions:

- Architectural services, Land Use Attorney services, and other services not expressly included above will be contracted directly with the Client
- Dry utility coordination is not included within the scope of services within this Contract.
- No offsite road improvements will be required with the exception of the access drive connection to the right-of-way
- A maximum of one (1) VDOT Waiver will be required
- This contract includes incorporating up to two (2) rounds of comments from the Town of Warrenton at the time of County comment receipt
- This contract assumes that final architectural building footprints and utility connections are received prior to starting to prepare the Site Plan drawings.
- Bohler will prepare the landscape plan and will coordinate with a lighting consultant for the photometric plan
- Construction Administration Services are not included in this scope

TOTAL: \$311,000

Katherine Roberts, LEED AP BD+C, P.E.

Project Manager

28 Blackwell Park Lane, Suite 201

Warrenton, VA 20186

o 540-349-4500 / c 304-886-1937 / kroberts@bohlereng.com

www.BohlerEngineering.com



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Frank Cassidy

From: Katherine Roberts <kroberts@bohlereng.com>
Sent: Thursday, November 17, 2022 2:44 PM
To: Frank Cassidy
Cc: v212171@nf.bohlereng.com
Subject: Town of Warrenton - DPW Building

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

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- Zoning Meetings + Coordination: \$6,000

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- SWPPP: \$5,000
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- Building Permit Processing: \$4,000
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- Canopy Permit Processing: \$3,500

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Katherine Roberts, LEED AP BD+C, P.E.

Project Manager

28 Blackwell Park Lane, Suite 201

Warrenton, VA 20186

o 540-349-4500 / c 304-886-1937 / kroberts@bohlereng.com

www.BohlerEngineering.com

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Frank Cassidy

From: Katherine Roberts <kroberts@bohlereng.com>
Sent: Thursday, November 10, 2022 1:45 PM
To: Frank Cassidy
Cc: v212171@nf.bohlereng.com
Subject: RE: DPW Project - Coordination Items

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Frank,

Good timing! I was just pulling this together to send your way.

There are a lot of items outlined below so let me know when you have some availability for a call next week to discuss in more detail. I also want to make sure we are giving you everything you need for your presentation so please let me know what else you are looking for.

To date, we have received the below reports from our subconsultants:

- [LINK TO DOWNLOAD:](#) Geotechnical Report
- [LINK TO DOWNLOAD:](#) ESA Phase I + Wetland Delineation

Geotechnical Summary:

- Encountered existing fill materials to maximum depths of approximately 28 feet below existing grades. It was not possible to determine whether these were placed in a controlled manner. There are assumptions and design recommendations in the report regarding this fill that the geotechnical engineer will need to verify once the design is further along.
 - Report assumes that the existing fill is suitable to place structures on top of based on densities during lab testing, but this will need to be confirmed
- Groundwater located between 17-33 feet below grade
- Note that the geotechnical study area is limited to the area from the original conceptual layout, as that is what we had on hand when they completed borings. The geotechnical engineer recommended waiting until we have a more final design to complete more borings and update the report.

Environmental Summary:

- Two RECs were found on the subject area, which are both tied to the adjacent landfill operations, specifically, the Historical Use Information and Site and Area Reconnaissance RECs, due to a large mound of construction material that has been stockpiled within the subject area
- At the time of this investigation, the environmental consultant prepared their report based on the original conceptual layout. They recommend updating both reports once feedback is received from Fauquier County and the site area has been finalized.
- The next step for environmental permitting will be to submit a PJD due to the proximity to wetlands. We would like to review the final layout with the environmental consultant once it is approved to confirm that this is still required.
- The updated report is anticipated to be +/- \$8K

Survey Status:

- Survey field work for the initial conceptual area is completed, but finalizing the survey is pending receipt of title report
- Topography for the additional conceptual plan area is anticipated to be +/- \$15K

Outstanding Items:

- Have you received any feedback from Fauquier on the updated conceptual layout / next steps? We like to have a formal Pre-Submittal meeting to confirm processes but we know you have had a lot of these initial conversations
- Do you have an ETA for the title report receipt?
- We would like to discuss the contract. Specifically, we know that \$100K was approved for this initial DD effort .Our contract included putting together the first submission for the Rezoning Plan, but with the update to the conceptual layout and need for some of these subconsultants to update their study areas, we recommend adjusting the scope to include the increased topographic area and removing the Rezoning Plan preparation.

Thank you,

Katherine Roberts, LEED AP BD+C, P.E.

Project Manager

o 540-349-4500 / c 304-886-1937 / kroberts@bohlereng.com



From: Frank Cassidy <fcassidy@warrentonva.gov>
Sent: Wednesday, November 9, 2022 5:12 PM
To: Katherine Roberts <kroberts@bohlereng.com>
Cc: v212171@nf.bohlereng.com
Subject: RE: DPW Project - Coordination Items

EXTERNAL: Use caution with attachments and links.

Good evening

Any update on this? I am looking for the report as I have to create a presentation for council in December. We are working on the title.

Thank you,

Frank

From: Katherine Roberts <kroberts@bohlereng.com>
Sent: Tuesday, October 18, 2022 10:18 AM
To: Frank Cassidy <fcassidy@warrentonva.gov>
Cc: v212171@nf.bohlereng.com
Subject: RE: DPW Project - Coordination Items

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Frank,

Item b.

The ESA Phase I and Geotech Reports were just sent our way for review. We had a few questions for the subconsultant which we are waiting for replies on. Additionally, the area of study has changed slightly with the updated concept, so we sent the updated version of the layout their way to get their input on if / how their reports may need to change and what that scope looks like. I expect to have a summary from each consultant this week.

For the survey, we have completed the field work for the initial conceptual area and were still waiting on the title report to wrap up the title review portion. Any chance you have received that?

Did you receive any initial feedback from the County on their review of the updated concept and how feasible this site is?

Thank you,

Katherine Roberts, LEED AP BD+C, P.E.
Project Manager
o 540-349-4500 / c 304-886-1937 / kroberts@bohlereng.com



From: Frank Cassidy <fcassidy@warrentonva.gov>
Sent: Monday, October 17, 2022 10:32 AM
To: Katherine Roberts <kroberts@bohlereng.com>
Subject: RE: DPW Project - Coordination Items

EXTERNAL: Use caution with attachments and links.

Good morning.

Any update on when we can look for a report on this ?

Frank

From: Katherine Roberts <kroberts@bohlereng.com>
Sent: Wednesday, September 21, 2022 1:37 PM
To: Frank Cassidy <fcassidy@warrentonva.gov>
Cc: v212171@nf.bohlereng.com; Rob Walton <rwalton@warrentonva.gov>; Faith White <jwhite@bohlereng.com>
Subject: RE: DPW Project - Coordination Items

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Frank,

Please see attached for the updated conceptual layout for your review + coordination.

Let us know how the discussions go with the County and when you are expecting the title commitment on this site.

Thank you,

Katherine Roberts, LEED AP BD+C, P.E.

Project Manager

o 540-349-4500 / c 304-886-1937 / kroberts@bohlereng.com

BOHLER //

From: Katherine Roberts

Sent: Wednesday, September 14, 2022 2:54 PM

To: Frank Cassidy <fcassidy@warrentonva.gov>

Cc: v212171@nf.bohlereng.com; Rob Walton <rwalton@warrentonva.gov>; Faith White <jwhite@bohlereng.com>

Subject: RE: DPW Project - Coordination Items

Great – I just sent you an invite for Monday morning – let me know if that time doesn't work for you.

Thanks,

Katherine Roberts, LEED AP BD+C, P.E.

Project Manager

o 540-349-4500 / c 304-886-1937 / kroberts@bohlereng.com

BOHLER //

From: Frank Cassidy <fcassidy@warrentonva.gov>

Sent: Wednesday, September 14, 2022 1:35 PM

To: Katherine Roberts <kroberts@bohlereng.com>

Cc: v212171@nf.bohlereng.com; Rob Walton <rwalton@warrentonva.gov>; Faith White <jwhite@bohlereng.com>

Subject: RE: DPW Project - Coordination Items

EXTERNAL: Use caution with attachments and links.

Good afternoon.

Monday, all day, and Friday morning are pretty open or me at the moment.

Frank

From: Katherine Roberts <kroberts@bohlereng.com>

Sent: Wednesday, September 14, 2022 9:19 AM

To: Frank Cassidy <fcassidy@warrentonva.gov>

Cc: v212171@nf.bohlereng.com; Rob Walton <rwalton@warrentonva.gov>; Faith White <jwhite@bohlereng.com>

Subject: RE: DPW Project - Coordination Items

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Frank,

Please see below for some responses.

I am thinking us setting up a Teams meeting would be helpful to make sure we are on the same page – what does availability look like next week?

Item b.

Thank you,

Katherine Roberts, LEED AP BD+C, P.E.

Project Manager

o 540-349-4500 / c 304-886-1937 / kroberts@bohlereng.com

BOHLER //

From: Frank Cassidy <fcassidy@warrentonva.gov>

Sent: Wednesday, September 14, 2022 8:45 AM

To: Katherine Roberts <kroberts@bohlereng.com>

Cc: v212171@nf.bohlereng.com; Rob Walton <rwalton@warrentonva.gov>; Faith White <jwhite@bohlereng.com>

Subject: RE: DPW Project - Coordination Items

EXTERNAL: Use caution with attachments and links.

Good morning.

As we move forward, I continue to be a bit concerned over the scope of what you are conducting and the information you are trying to gather. At this point, I ask the following:

- As to the traffic study, I do not think that level of analysis is necessary for any future SE application. In speaking with the County and our Engineer, we don't need a traffic study for this facility. I think we only need to see a projection of the number of vehicular trips in and out of our proposed site, and a design of the entrance to accommodate the truck turning movements.
 - Agreed – and the traffic consultant is on the same page as well and are currently on pause.
- Also based on our conversation with the County and the possible changes to the layout of the structure, it seems there is still some work to do to determine if the site we discussed is feasible for both the Town and County. We may want to meet with you to get a status as to what you are working on before we move further to make sure we are all on the same page.
 - We are working on the concept updates for review with your team and then can discuss next steps. Another meeting with the County to review the updated concept is recommended once you review.
- This leads me to your title question- do we need this at this point?
 - The title is required to complete the ALTA survey, but we can hit pause until we determine whether the site is feasible.

Your thoughts?

Thank you,

Frank

From: Katherine Roberts <kroberts@bohlereng.com>

Sent: Wednesday, September 14, 2022 8:00 AM

To: Frank Cassidy <fcassidy@warrentonva.gov>

Cc: v212171@nf.bohlereng.com; Rob Walton <rwalton@warrentonva.gov>; Faith White <jwhite@bohlereng.com>
Subject: RE: DPW Project - Coordination Items

Item b.

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Frank,

Wanted to follow up on the below as well regarding the title commitment – I am thinking with all of the documents that were pulled they likely have a title commitment and it just wasn't uploaded to the link.

Let us know when you can.

Thank you!

Katherine Roberts, LEED AP BD+C, P.E.
Project Manager
o 540-349-4500 / c 304-886-1937 / kroberts@bohlereng.com

BOHLER //

From: Katherine Roberts
Sent: Friday, September 9, 2022 9:21 AM
To: Frank Cassidy <fcassidy@warrentonva.gov>
Cc: v212171@nf.bohlereng.com; Rob Walton <rwalton@warrentonva.gov>; Faith White <jwhite@bohlereng.com>
Subject: RE: DPW Project - Coordination Items

Frank,

Thank you – we reviewed the title report documents and it looks like it does not include a title commitment. Based on the invoice in the download link I think it should have – can you please follow up and see if that is something they can provide?

Typically, the applicant and/or property owner will fill out the questionnaire as much as possible. Often, they are not fully complete as some of the answers will be unknown.

Thank you,

Katherine Roberts, LEED AP BD+C, P.E.
Project Manager
o 540-349-4500 / c 304-886-1937 / kroberts@bohlereng.com

BOHLER //

From: Frank Cassidy <fcassidy@warrentonva.gov>
Sent: Friday, September 9, 2022 7:14 AM
To: Katherine Roberts <kroberts@bohlereng.com>
Cc: v212171@nf.bohlereng.com; Rob Walton <rwalton@warrentonva.gov>
Subject: RE: DPW Project - Coordination Items

EXTERNAL: Use caution with attachments and links.

Good morning.

We received the title report and I will forward in a different email. As to the questionnaires, we have reviewed them and need to know who is the best person/entity to fill these out? please let me know.

Thank you,

Frank

From: Katherine Roberts <kroberts@bohlereng.com>
Sent: Tuesday, September 6, 2022 12:26 PM
To: Frank Cassidy <fcassidy@warrentonva.gov>
Cc: v212171@nf.bohlereng.com; Rob Walton <rwalton@warrentonva.gov>
Subject: RE: DPW Project - Coordination Items

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Thank you, Frank.

We reviewed and will update the concept for your review to make sure we are on the same page.

Our survey team has completed their field work but needs the title report to wrap up their deliverable – are you able to give an ETA from the title company?

Also, just a reminder about the attached questionnaires from the environmental consultant.

Thank you,

Katherine Roberts, LEED AP BD+C, P.E.
Project Manager
o 540-349-4500 / c 304-886-1937 / kroberts@bohlereng.com

BOHLER //

From: Frank Cassidy <fcassidy@warrentonva.gov>
Sent: Friday, September 2, 2022 1:48 PM
To: Katherine Roberts <kroberts@bohlereng.com>
Cc: v212171@nf.bohlereng.com; Rob Walton <rwalton@warrentonva.gov>
Subject: RE: DPW Project - Coordination Items

EXTERNAL: Use caution with attachments and links.

Good afternoon.

Please accept this as a quick update to the meeting with the County:

The main issue that came up during our meeting was the adjacency to the creek, egress, and the topography of the selected site.

Egress: Concerns for adding additional entrances and exits would be too much for the traffic on the main access for landfill. We need to consider moving the entrances and exits further up road with possible combining with existing access roads.

As to the creek: the preliminary sketch shows fuel pumps near this area. This will not be acceptable to the County. The overall project would have to take into consideration all runoff and possible influence of the creek as this is a sensitive creek area.

The topography: The location of the proposed buildings were a concern as to the slope and the elevation exposure to the highway, especially as a gateway into the Town.

The recommended solution to the above issues is to create an "L" shaped layout for the buildings. To do this, the building closest to the highway will be shifted up to the access way for the landfill; then made parallel to the accessway. The proposed fuel pumps would be moved up that area as well. This would require an adjustment to the proposed designated site area, but should address the concerns mentioned by the County.

I attached a rough sketch to help illustrate the changes on the above mentioned considerations. Please take these into consideration for the continuation of the study.

Let me know if you require additional.

Frank

From: Katherine Roberts <kroberts@bohlereng.com>
Sent: Wednesday, August 31, 2022 1:35 PM
To: Frank Cassidy <fcassidy@warrentonva.gov>
Cc: v212171@nf.bohlereng.com
Subject: DPW Project - Coordination Items

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Hi Frank,

Wanted to follow up and see if you have had any success setting up a meeting with the County to review the most recent concept.

Additionally, we have a few other coordination items to get started / follow up on:

1. Can you please complete the attached questionnaires for the ESA Phase I Analysis on this site?
2. Do you have an ETA for the title report?

Let me know if you have any other questions in the meantime.

Thank you!

Katherine Roberts, LEED AP BD+C, P.E.
Project Manager

PHASE I ENVIRONMENTAL SITE ASSESSMENT



TOWN OF WARRENTON DPW COMPLEX SITE A

8499 BINGHAM ROAD
WARRENTON, VIRGINIA 20186

ECS PROJECT NO. 47:13457-A

FOR: BOHLER ENGINEERING

SEPTEMBER 16 2022





September 16 2022

Katherine Roberts
Bohler Engineering
28 Blackwell Park Lane
Suite 201
Warrenton, Virginia 20186

ECS Project No. 47: 13457-A

Reference: Phase I Environmental Site Assessment Report, Town of Warrenton DPW Complex Site A, 8499 Bingham Road, Warrenton, Faquier County, Virginia 20186

Dear Mrs. Roberts:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide you with the results of our Phase I Environmental Site Assessment (ESA) for the referenced site. ECS's services were provided in general accordance with ECS Proposal No. 47:22797-EP authorized on July 27, 2022 and generally meet the requirements of ASTM E1527-21, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, which ECS believes to be in accordance with EPA Standards and Practices for All Appropriate Inquiries contained in 40 CFR Part 312.

If there are questions regarding this report, or a need for further information, please contact the undersigned.

Sincerely,

ECS Mid-Atlantic, LLC

Josh Peckham
Environmental Scientist
jpeckham@ecslimited.com
571-919-0668

Ryan J. Croyle, REM
Environmental Principal
rcroyle@ecslimited.com
717-767-4788

Project Summary

Town of Warrenton DPW Complex Site A
 8499 Bingham Road
 Warrenton, Virginia 20186

Report Section		No Further Action	REC	CREC	HREC	BER	Comment
4.0	User Provided Information					✓	The user confirmed the parcel has been used by Fauquier county as a Landfill Site.
5.1	Federal ASTM Databases					✓	The adjacent facility is a household waste landfill with several listed violations
5.2	State ASTM Databases					✓	The adjacent facility is a household waste landfill with several listed violations
5.3	Additional Environmental Record Sources	✓					
6.0	Historical Use Information		✓			✓	The subject property was historically used as part of the adjoining landfill. A large earthen mound of construction material from the facility remains on the property. The adjacent facility is a household waste landfill.
7.0	Site and Area Reconnaissance		✓			✓	A large earthen mound of unknown construction material lies on the east side of the property. The adjacent facility to the east is a household waste landfill.
8.0	Additional Services	✓					

Report Section		No Further Action	REC	CREC	HREC	BER	Comment
9.0	Interviews	✓					No owner interview

ENVIRONMENTAL PROFESSIONAL STATEMENT

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in § 312.10 of 40 CFR 312. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Signature for Unknown User



Unknown User
Environmental Senior Project Manager
September 16 2022

Ryan J. Croyle, REM
Environmental Principal
September 16 2022

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1.0 EXECUTIVE SUMMARY

ECS Mid-Atlantic, LLC (ECS) was contracted by Bohler Engineering to perform an ASTM E1527-21, Phase I Environmental Site Assessment (ESA) of the Town of Warrenton DPW Complex Site A located at 8499 Bingham Road in Warrenton, Fauquier County, Virginia (i.e. subject property). This Executive Summary is an integral part of the Phase I ESA report. ECS recommends that the report be read in its entirety.

The subject property is identified by the Fauquier County GIS as a portion of the parcel identified with the Property Identification Number (PIN) 6983-81-0145-000 and owned by the Board of Supervisors of Fauquier County. The subject property is an approximate 10 acre tract that is located in a predominantly agricultural area of Warrenton, VA. The subject property is a portion of a much larger parcel that houses the Fauquier County Landfill facilities. The subject property consists of primarily unimproved land, with a large earthen mound rising across most of the east and north of the site. A small utility shed and some transmission lines occupy the northwest corner of the property.

The subject property is located in a rural area of Warrenton, Virginia. Based on our review of site topography and conditions observed during the site reconnaissance, it is our professional opinion that properties to the east are presumed to be hydrogeologically up-gradient of the subject property. The subject property is bound on the north by commercial facilities, on the east and south by industrial landfill facilities and on the west by undeveloped land. ECS identified the adjacent landfill operations to represent a potential BER for the subject property.

Based on the records search, site reconnaissance and interviews, it appears that the subject property was historically used as agricultural land from at least 1952, if not earlier, until approximately 2002, when it became a part of the adjacent landfill construction. Prior to 1927, it appears that the site was undeveloped. Records indicate the subject parcel has been owned by Fauquier County. Historical records prior to 1894 were not reasonably ascertainable for the subject property.

A regulatory database search report was provided by EDR. The database search involves researching a series of Federal, State, Local, and other databases for facilities and properties that are located within specified minimum search distances from the subject property. The report did not directly identify the subject property on the databases researched. The EDR report identified several facilities within the minimum ASTM search distances that share a tax parcel with the subject property. Based on our review of available public records, issues associated with the the listings in the database report are not believed to represent a REC for the subject property.

ASTM E1527-21 defines a "*data gap*" as: "a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information." ECS was not able to conduct an interview with the property owner or someone with considerable knowledge of the property. ECS considers this to be a data gap for the assessment; however, based on conditions observed at the property and the consistent agricultural use of the property that converted to a portion of a C&D landfill, the absence of an owner interview was not considered to be a significant data gap, and was not considered likely impact our ability to render a professional opinion regarding the subject property.

A "*significant data gap*" is "a data gap that affects the ability of the environmental professional to identify a recognized environmental condition." Significant data gaps that would be expected to impact our ability to render a professional opinion concerning the subject property were not identified.

We have performed a Phase I Environmental Site Assessment in general conformance with the scope and limitations of ASTM E1527-21 of the Town of Warrenton DPW Complex Site A located at 8499 Bingham Road in Warrenton, Fauquier County, Virginia, the subject property. Any exceptions to, or deletions from, this practice are described in Section 2.6 of this report. This assessment has revealed the following Recognized Environmental Conditions in relation to the subject property.

- The subject property started operating as a portion of the Fauquier County Landfill that is located on the parent parcel between 2002 and 2008. The landfill was reportedly used for storage of construction & demolition (C&D) waste material. Historical records and site visit observations revealed an earthen mound to the east of the subject property that extends to the north. Records reviewed do not indicate the nature of the material stockpiled on the subject property. Due to the historic use of the subject property as a part of C&D waste landfill activities, and the same use of the adjacent property, ECS considers the historic use to represent an REC for the subject property.
- The property shares a parcel with the Fauquier County Landfill, with several of the facilities and disposal areas adjoining the subject property to the east and south. This collection site is designated for the disposal of household trash, bulk waste and recycling as well as C&D waste. Based on our review of available historical and regulatory records, the adjacent facility was cited for violations in the past, and it is possible household waste debris may be present on the subject property. As a result of this use, ECS considers the facility to represent an REC for the subject property.

Table of Critical Dates

Item	Date
Report Issuance Date	September 16 2022
Date of Interview with Past and Present Owners and Occupants	August 23, 2022
Date of Recorded Environmental Cleanup Lien Search	N/A
Date of Government Record Review Report	August 12, 2022
Date of Visual Inspection of Subject and Adjoining Properties	August 22, 2022
Earliest Date of Interviews, Lien Search, Record Reviews, and Inspections	August 12, 2022
Report Viability Date	February 8, 2023

2.0 INTRODUCTION

2.1 Purpose and Reason for Performing Phase I ESA

The purpose of the ESA was to:

- evaluate the probability of impact to the surface water, groundwater and/or soils within the property boundaries through a review of regulatory information and a reconnaissance of the subject property and vicinity;
- evaluate historical land usage to identify previous conditions that could potentially impact the environmental condition of the subject property;
- conduct all appropriate inquiry as defined by ASTM E1527-21 and 40 CFR Part 312;
- evaluate the potential for on-site and off-site contamination; and,
- provide a professional opinion regarding the potential for environmental impact at the site and a list of Recognized Environmental Conditions (RECs).

The ESA should allow the Users the opportunity to qualify for landowner liability protection under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) provided certain stipulations are met. The landowner liability protections are: an innocent landowner, a contiguous property owner, or a bona fide prospective purchaser. The User must meet the protection stipulations detailed in CERCLA to qualify as well as meet the User Obligations contained within the ASTM E1527-21 standard.

The reason for conducting this ESA is to perform all appropriate inquiries into the uses and prior ownership of the subject property for due diligence in support of a pending property transaction as well as to serve as a feasibility survey on behalf of the User.

2.2 Scope of Services

The environmental assessment was conducted in general accordance with ASTM E1527-21, which ECS believes to be in accordance with EPA Standards and Practices for All Appropriate Inquiry (40 CFR §312.10). The environmental assessment was conducted under the supervision or responsible charge of an individual that qualifies as an environmental professional, as defined in 40 CFR §312.10.

ECS was contracted by Bohler Engineering to perform an ASTM E1527-21, Phase I Environmental Site Assessment (ESA) of the Town of Warrenton DPW Complex Site A located at 8499 Bingham Road in Warrenton, Fauquier County, Virginia. ECS was not contracted to address non-scope considerations.

2.3 Definitions

ASTM E1527-21 defines a "*recognized environmental condition (REC)*" as "(1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment." For the purposes of this definition,

"likely" is that which is neither certain nor proved, but can be expected or believed by a reasonable observer based on the logic and/or experience of the environmental professional, and/or available evidence, as stated in the report to support the opinions given therein.

ASTM E1527-21 defines a "*historical recognized environmental condition (HREC)*" as "a previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (for example, activity and use limitations or other property use limitations). A historical recognized environmental condition is not a recognized environmental condition."

ASTM E1527-21 defines a "*controlled recognized environmental condition (CREC)*" as "recognized environmental condition affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations)."

ASTM E1527-21 defines a "*business environmental risk (BER)*" as "a risk that can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of commercial real estate, not necessarily related to those environmental issues required to be investigated in this practice." This assessment does not include ASTM Non-Scope items or identify business environmental risks unless specifically requested by the Client, and included in [Section 8.0](#) of this report.

ASTM E1527-21 defines a "*de minimis condition*" as "a condition related to a release that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. A condition determined to be a *de minimis* condition is not a recognized environmental condition nor a controlled recognized environmental condition."

2.4 Limitations

The ESA involved a reconnaissance of the subject property and contiguous properties and a review of regulatory and historical information in general accordance with the ASTM standard and EPA regulation referenced herein. No non-scope considerations or additional issues such as asbestos, radon, wetlands or mold were investigated, unless otherwise described in Section 8.0 of this report.

Note: vapor migration in the subsurface is described in Guide E2600 published by ASTM. ECS has not conducted a Vapor Encroachment Screen in accordance with the E2600 guide.

The conclusions and/or recommendations presented within this report are based upon a level of investigation consistent with the standard of care and skill exercised by members of the same profession currently practicing in the same locality under similar conditions. The intent of this assessment is to identify the potential for recognized environmental conditions in connection with the subject property; however, no environmental site assessment can completely eliminate uncertainty regarding the potential for recognized environmental conditions in connection with the

subject property. The findings of this ESA are not intended to serve as an audit for health and safety compliance issues pertaining to improvements or activities at the subject property. ECS is not liable for the discovery or elimination of hazards that may potentially cause damage, accidents or injury.

Observations, conclusions and/or recommendations pertaining to environmental conditions at the subject property are necessarily limited to conditions observed, and or materials reviewed at the time this study was undertaken. It was not the purpose of this study to determine the actual presence, degree or extent of contamination, if any, at this subject property. This could require additional exploratory work, including sampling and laboratory analysis. No warranty, expressed or implied, is made with regard to the conclusions and/or recommendations presented within this report.

This report is provided for the exclusive use of Bohler Engineering. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties. The use of this report by any undesignated third party or parties will be at such party's sole risk and ECS disclaims liability for any such third party use or reliance. The use of this report is subject to the same terms, conditions and scope of work reflected in this report and the associated proposal.

2.5 Data Gaps

ASTM E1527-21 defines a "data gap" as: "a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information." A "significant data gap" is "a data gap that affects the ability of the environmental professional to identify a recognized environmental condition."

Data failures (historical data gaps) were identified during the historical research of this subject property. Use of the subject property was generally documented back to 1894. Historical information was missing for various periods. However, due to the apparent consistent historical agricultural use, the historical data gaps are not expected to impact our ability to render a professional opinion regarding the subject property.

ECS was not able to conduct an interview with the property owner or someone with considerable knowledge of the property. ECS considers this to be a data gap for the assessment; however, based on conditions observed at the property and the consistent residential use of the property since its development, the absence of an owner interview was not considered to be a significant data gap, and was not considered likely to impact our ability to render a professional opinion regarding the subject property.

Significant data gaps that would be expected to impact our ability to render a professional opinion concerning the subject property were not identified.

2.6 Limiting Conditions/Deviations

ASTM E1527-21 requires that the Environmental Professional identify limiting conditions, deletions, and deviations from the ASTM E1527-21 standard, if any, including client-imposed constraints. The following limiting conditions and/or deviations were encountered during the performance of this Phase I ESA:

- Dense vegetation covered portions of the subject property and may have obscured environmentally significant features and direct observation of the ground surface.
- ECS was not able to conduct an interview with the property owner or someone with considerable knowledge of the property. The lack of an owner interview is considered a limitation of this study.

3.0 SUBJECT PROPERTY DESCRIPTION

3.1 Subject Property Location and Legal Description

Site Name	Town of Warrenton DPW Complex Site A
Property Address	8499 Bingham Road
Property City, State	Warrenton, Virginia
Property County	Faquier County
Number of Parcels	Portion of One (1)
Property ID Number(s)	6983-81-0145-000
Property Size	10 Acres
Property Owner of Record	Board of Supervisors of Faquier County
Property Legal Description	N/A

3.2 Physical Setting and Hydrogeology

USGS Topographic Map	
Quad Designation	Warrenton, VA Quadrangle 7.5 Minute
Date	2019
Subject Property Settings	
Average Subject Property Elevation (in feet or meters)	540 ft
General Sloping Direction	West
Bodies of Water	One small ponded area on the south side.
General Directions of Surface Flow	Southwest
Presumed Direction of Groundwater Flow	Southwest
Geologic Province	Piedmont
Up-gradient Property Direction	East

Nearby Properties' Setting	
General Sloping Direction	West
Bodies of Water	Mill Run stream to the west of the property, Large stormwater pond bordering the south of the property, with several larger ponds beyond.
General Directions of Surface Flow	Southwest
Presumed Direction of Groundwater Flow	Southwest

Regional influences such as karst conditions, impermeable soils, etc. may have an impact on groundwater flow. The actual groundwater flow direction cannot be determined without site-specific information obtained through the gauging of groundwater monitoring wells.

3.3 Current Use and Description of the Site

The subject property is an approximate 10 acre tract that is located in a predominantly agricultural area of Warrenton, VA. The subject property is a portion of a much larger parcel that houses the Fauquier County Landfill facilities. The subject property consists of primarily unimproved land, with a large earthen mound rising across most of the east and north of the site. A small utility shed and some transmission lines occupy the northwest corner of the property.

4.0 USER PROVIDED INFORMATION

The ASTM standard includes disclosure and obligations of the User to help the Environmental Professional identify the potential for Recognized Environmental Conditions associated with the subject property. A User Questionnaire was submitted to Katherine Roberts with Bohler Engineering. The user questionnaire was completed by Frank Cassidy, Director of Public Works & Utilities for the Town of Warrenton, VA on September 9, 2022. Section 4.0 is based on the completed User Questionnaire. A copy of the completed User Questionnaire is included in Appendix II.

4.1 Title Information

ECS was not provided with title information by the User. If this information is provided following the issuance of this report and information contained therein materially changes the outcome of this report, ECS will issue an addendum to this report.

4.2 Environmental Liens or Activity and Use Limitations

ECS was not provided with information on environmental liens or activity and use limitations for our review. It should be noted by the User of this report that if the User does not obtain activity and use limitation information, the User that is seeking to qualify for an innocent landowner, a contiguous property owner, or a bona fide prospective purchaser liability defense may lose these rights to qualify under CERCLA. If the activity use information is provided following issuance of this report and information contained therein materially changes the outcome of this report, ECS will issue an addendum to this report.

4.3 Specialized Knowledge

The User did not provide specialized knowledge of the subject property.

4.4 Commonly Known or Reasonably Ascertainable Information

The user stated the land was previously used by Fauquier County as a landfill site.

4.5 Valuation Reduction for Environmental Issues

No information pertaining to the valuation reduction for environmental issues was provided to ECS.

4.6 Owner, Property Manager, and Occupant Information

The user stated that the property was formerly owned by Fauquier County.

4.7 Degree of Obviousness

The User did not provide information related to obvious indicators that point to the presence or likely presence of contamination at the subject property.

5.0 RECORDS REVIEW

A regulatory records search of ASTM standard and supplemental databases was conducted for the subject property and is included in Appendix III. The regulatory search report in the appendix includes additional details about the regulatory databases that were reviewed. The regulatory records search involves searching a series of databases for facilities that are located within a specified distance from the subject property. The ASTM standard specifies an approximate minimum search distance from the subject property for each database. Pursuant to ASTM, the approximate minimum search distance may be reduced for each standard environmental record except for Federal NPL site list, and Federal RCRA TSD list. According to ASTM, government information obtained from nongovernmental sources may be considered current if the source updates the information at least every 90 days or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public. The following table indicates the standard environmental record sources and the approximate minimum search distances for each record.

Standard Environmental Record Sources	Approximate Minimum Search Distance Per ASTM (miles)	Subject Property	Off-Site Properties
Federal NPL	1.0	No	0
Federal Delisted NPL	0.5	No	0
Federal CERCLIS	0.5	No	0
Federal CERCLIS NFRAP	0.5	No	0
Federal RCRA CORRACTS	1.0	No	0
Federal RCRA non-CORRACTS TSD	0.5	No	0
Federal RCRA Generators	Subject Site and Adjoining Properties	Yes	1
Federal IC/EC	Subject Site Only	No	N/A
Federal ERNS	Subject Site Only	No	N/A
State and Tribal Hazardous Waste Sites (NPL Equivalent)	1.0	No	0
State and Tribal Hazardous Waste Sites (CERCLIS Equivalent)	0.5	No	0
State and Tribal Landfill and/or solid waste disposal sites	0.5	Yes	1

Standard Environmental Record Sources	Approximate Minimum Search Distance Per ASTM (miles)	Subject Property	Off-Site Properties
State and Tribal Leaking Tanks	0.5	No	0
State and Tribal Registered UST and AST	Subject Site and Adjoining Properties	No	0
State and Tribal IC/EC	Subject Site Only	No	N/A
State and Tribal Voluntary Cleanup (VCP)	0.5	No	0
State and Tribal Brownfield Sites	0.5	No	0

Based on our knowledge of the subject property and the surrounding area, ECS attempts to verify and interpret this data. While this attempt at verification is made with due diligence, ECS cannot guarantee the accuracy of the record(s) search beyond that of information provided by the regulatory report(s). ECS makes no warranty regarding the accuracy of the database report information included within the regulatory report(s).

The regulatory database search was performed by EDR, and their report is dated August 12, 2022. ECS did not reduce the minimum ASTM search distances stipulated in the standard. The regulatory databases reviewed by ECS included supplemental databases researched by EDR.

5.1 Federal ASTM Databases

5.1.1 Federal RCRIS - Generators

RCRIS identifies facilities that generate hazardous wastes as defined by the RCRA. Very small quantity generators (VSQG) (previously identified as conditionally exempt small quantity generators or CESQGs) generate less than 100 kilograms of hazardous waste, or less than 1 kilogram of acutely hazardous waste, per month. Small quantity generators (SQGs) generate between 100 and 1,000 kilograms of hazardous waste per month. Large quantity generators (LQGs) generate more than 1,000 kilograms of hazardous waste or more than 1 kilogram of acutely hazardous waste per month.

No facilities were identified within the boundaries of the subject property.

One facility on the same parcel as the subject property (EPA IDs: VAR000517722) was identified on the RCRIS Generator database as **FAUQUIER COUNTY HHW (6438 College Street)** and historically as **FAUQUIER CO. LANDFILL-DEPT.OF ENV. SERV.** The listing is described below:

The facility is listed by the database as approximately 681 feet from the subject property and was identified as a RCRA-VSQG in 2009 as Fairfax County Household Hazardous Waste. This collection site is designated for the disposal of household trash, bulk waste and recycling. The facility was listed as a conditionally exempt small quantity generator of solid wastes (NAICS Code:562111). The facility received eight (8) notices of violations during a compliance inspection by the State on September 9, 2005. The facility received eight warning letters from the State on November 8-9, 2005 as acts of enforcement on the previous violations. The facility was listed as returning to compliance on December 14, 2005. Additional information pertaining to this listing can be viewed in the regulatory report included in Appendix III. Due to the listed violations and the proximity of the facility on the same parcel as the subject property, ECS considers this to be a BER for the subject property.

5.2 State ASTM Databases

5.2.1 Solid Waste Facilities/ Landfill (SWL/LF) List

The SWL is a list of state-permitted solid waste facilities. These facilities may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

No facilities were identified within the boundaries of the subject property.

One facility on the same parcel as the subject property was identified on the SWL/LF database as **CORRAL FARM WASTE MANAGEMENT FACILITY (6438 College Street)**. The listing is described below:

The facility was identified as two split listings of a transfer station and materials recovery facility. This data lists one-hundred and seventy-eight (178) entries for permits issued to the facilities. These primarily consist of financial assurance records, routine compliance reports, and miscellaneous administrative permitting. Two notices of violation were issued for the property on December 13, 2018 regarding unspecified water violations and the Construction General Permit VAR051470. After review, ECS does not consider the permitting or enforcement entries to represent a REC for the subject property. However ECS does consider the listing of the facility on the landfill database, and the reported violations, to represent a BER for the subject property.

5.3 Additional Environmental Record Sources

5.3.1 Additional Non-ASTM Federal Databases

Neither the subject property nor properties within the designated search radii were identified on the Non-ASTM Federal databases researched for this assessment.

5.3.2 Additional Non-ASTM State Databases

5.3.2.1 Manifest Information (PA MANIFEST)

The Manifest database contains information pertaining to hazardous waste manifest listings.

No facilities were identified within the boundaries of the subject property.

One facility on the same parcel as the subject property (EPA IDs: VAR000517722) was identified on the RCRIS Generator database as **FAUQUIER COUNTY HHW (6438 College Street)**. The listing is described below:

This database listing contains four identical entries for Manifest Number:015831253JJK for 70 pounds of unspecified hazardous material transported to Chem Cycle Inc in Lewisberry Pa. on October 21, 2017. Based on our review of reasonably ascertainable information, due to the listing of the material having been properly removed from the facility, ECS does not consider this listing to be a REC for the subject property.

5.3.3 Other Proprietary Databases

Neither the subject property nor properties within the designated search radii were identified on the proprietary databases researched for this assessment.

5.3.4 Unmapped (Orphan) Facilities and Sites

One property was identified on the Orphan Summary List. These facilities are considered unmappable because the facility information in the database is insufficient and/or does not report accurate facility location.

5.4 Regulatory Review Summary

A regulatory database search report was provided by EDR. The database search involves researching a series of Federal, State, Local, and other databases for facilities and properties that are located within specified minimum search distances from the subject property. The report did not identify the subject property on the databases researched. The EDR report identified several adjacent facilities that share a tax parcel with the subject property within the minimum ASTM search distances. Based on our review of available public records, ECS does consider the listings to be potential sources of soil, groundwater, or vapor impact to the subject property. The adjacent facility is a landfill designated for the disposal of household trash, bulk waste and recycling, and during our review of available public records the property was noted with several potential violations. Because of this ECS considers the facility to represent a BER for the subject property.

6.0 HISTORICAL USE INFORMATION

6.1 Aerial Photograph Review

ECS reviewed aerial photographs of the subject property and immediately surrounding properties for evidence of former usage which may indicate potential environmental issues. The aerial photographs were obtained from Historic Aerials NETR Online and EDR. The aerial photographs reviewed were dated 1952, 1960, 1966, 1970, 1971, 1977, 1980, 1994, 2002, 2003, 2005, 2006, 2008, 2009, 2011, 2012, 2013, 2014, 2016, 2018. Aerial photographs dated prior to 1952 were not available for review. The ECS review is dependent on the quality and scale of the photographs.

The following is a description of relevant information from the aerial photographs:

Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
1952-1966	Subject property was situated on a portion of a large agricultural field.	Surrounded by agricultural land on all sides. Some residential structures lie beyond to the west situated along a road that runs to the west. and some structures of unknown use lie to the northeast. Subject property is bordered by a road to the north. A linear drainage feature is visible bordering the west side of the property.	No
1966-1971	Subject Property remains unchanged.	The road beyond the western property was developed into a larger, multi-lane highway. The drainage feature to the west is headed by a small pond in the northwest.	No
1971-2002	Subject Property remains unchanged.	The road beyond to the west was furthered developed with additional lanes. The facility to the northeast developed with additional structures.	No

Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
2002-2003	A linear landscaped area is visible on the north of the subject property parallel to the road.	A linear forested area is visible to the west and east of the subject property. The small pond to the northwest is no longer visible. The facility to the northeast is no longer visible. Former agricultural lands beyond to the north developed into a large community college facility and parking area. Lands to the northeast, east, and south were visibly under development and clearing for construction of large landfill facility	No
2003-2005	Subject Property remains unchanged.	Landfill facility construction appears complete and facility appears operational	Yes
2005-2008	Subject Property remains unchanged.	Access road constructed east of the subject property	Yes
2008-2011	Linear raised earthen mound area visible in the northeast of the property	Property to the west is primarily forested.	Yes
2011-2012	Barren/cleared area visible on east side of the property.	Access road to the east changed in shape.	Yes
2012-2013	Linear earthen mound area visibly constructed across most of the north of the subject property. Large area on the east of the site cleared from construction operations.	Adjacent properties remain primarily unchanged	Yes
2013-2014	East of subject property now constructed into large earthen mound that extends across the north of the site.	Adjacent properties remain primarily unchanged	Yes

Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
2014-2016	Vegetation cleared from mound for what appeared to be additional construction operations to add material .	Storm water pond under southeast of the subject property	Yes
2016-2018	Additional construction underway to add material in the northeast.	Southeast pond construction complete.	Yes

6.2 Sanborn Fire Insurance Map Review

In an effort to identify past uses, ECS utilized EDR to search for historical Sanborn Fire Insurance Maps (Sanborn) for the subject property and surrounding area. Sanborn maps were not available for this area. The absence of such maps generally indicates that the subject property is located in an area where Sanborn maps were not produced because the area was rural or it was not economically feasible. ECS does not expect the lack of Sanborn maps to impact our ability to render a professional opinion concerning the subject property given the amount of historical information obtained from our research, the USGS topographic map, aerial photographs, city directories, and other historical records obtained. A copy of the Unmapped Property report is included within Appendix IV.

6.3 Historical USGS Topographic Maps

Topographic maps are produced by the United States Geological Survey (USGS) for various time periods. ECS reviewed topographic maps of the subject property and immediately surrounding properties for evidence of former usage that may indicate potential environmental issues. The topographic maps were obtained from Historic Aerials NETR Online and United States Geological Survey (USGS) and were dated 1894, 1897, 1927, 1930, 1945, 1948, 1957, 1958, 1961, 1966, 1968, 1972, 1978, 1982, 1986, 1994, 1999, 2011, 2013, 2016, 2019. Topographic maps dated prior to 1894 were not available for review.

The following is a description of relevant information from the topographic maps:

Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
1894-1927	Maps depict the site sloping generally downhill to the northeast, with a tributary of the Bull Run stream intersecting the site to the northeast.	Maps depict a roadway to the east of the subject property, beyond the adjacent properties.	No

Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
1927-1930	Maps depict the site sloping generally downhill to the southwest, with a stream depicted to the southwest.	Roads are depicted to the north of the site and beyond adjacent properties to the west of the site. some small structures lie of these roads.	No
1930-1968	Maps depict the stream in the southwest intersecting the subject property in the southwest.	Adjacent properties remain primarily unchanged	No
1968-1972	Subject Property remains unchanged.	The stream to the west of the site is depicted as running linear north to south and headed by a pond to the northeast of the subject property.	No
1972-2013	Subject Property remains unchanged.	A new structure is depicted to the northeast of the subject property.	No
2013-2016	Subject Property remains unchanged.	structures no longer depicted on maps. Large pond depicted to the south of the subject property.	No
2016	Subject Property topography visibly changed by raised area in the east, still primarily slopes to the southwest.	Contours of landfill visible to the southeast of the subject property.	Yes

6.4 City Directory Review

One of the ASTM standard historical sources to be reviewed for previous subject property uses is local street directories, commonly known as City Directories. The purpose of the directory review is to identify past occupants of the subject property, adjoining properties, or nearby properties. In some rural areas, street directories information is limited.

ECS reviewed city directories obtained from EDR. The subject property address utilized for the research was 8499 Bingham Road. The directories reviewed were dated 1963, 1966, 1970, 1974, 1978, 1983, 1988, 1992, 1995, 2000, 2005, 2010, 2014, 2017. No listings were found for the subject property. The directories reviewed did not provide listings for the subject property or surrounding area. Directories dated prior to 1963 were not available for review. A copy of the city directory report is included in Appendix IV.

The following is a description of relevant information from the city directories:

Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
1963-2017	No directory results	No directory results	No

6.5 Property Tax Files

Property tax files may include records of past ownership, appraisals, maps, sketches, photos, or other information kept by the local jurisdiction for property tax assessment purposes. According to the Faquier County tax assessor online information, the subject property is owned by Board of Supervisors of Faquier County. The subject property is a 10-acre portion of the parcel identified with the Parcel Identification Number (PIN) 6983-81-0145-000.

6.6 Recorded Land Title Records

Recorded land title records may include leases, land contracts, and AULs recorded by the local jurisdiction. Land title records may provide only a list of the names of previous owners and may be of limited use; however, they may provide useful information about uses or occupancy of the property when employed in combination with other sources.

ECS was not provided with Land Title Records. Given historical information gained from other sources reviewed in this section, this is not considered to be a significant data gap that would affect our ability to render a professional opinion concerning the property's environmental quality.

6.7 Building Department Records

The term building department records means those records of the local government indicating permissions of the local government to construct, alter or demolish improvements on the property.

ECS obtained a list of building permits from EDR via the Lightbox™ Application. The provided building permits were for residential structures on the same parcel, but not located within or adjacent to the subject property.

6.8 Zoning/Land Use Records

The term zoning/land use records refers to records of the local government indicating the uses permitted by the government in particular zones within its jurisdictions.

Due to substantial historical coverage gained from other sources, ECS did not review zoning records for the purpose of this assessment. Given historical information gained from other sources reviewed in this section, this is not considered to be a significant data gap that would affect our ability to render a professional opinion concerning the property's environmental quality.

6.9 Previous Reports

We have not been provided with environmental or engineering assessment reports for the subject property completed by others, nor has ECS completed similar studies or prior assessments of the subject property.

6.10 Other Historical Sources

Other credible historical sources may be reviewed to identify past uses of the subject property. These sources may include websites, county or state road maps, historical society documents, or local library information. Please find copies of correspondences in appendix ii.

6.10.1 State Environmental Agency

ECS representative Joshua Peckham contacted the Virginia Department of Environmental Quality to determine if they had historical information regarding any documented storage, spills, and/or disposals of petroleum products, chemical or hazardous substances at the site or in the immediate vicinity of the project area, or other information regarding the subject property. A Freedom of Information Act request was submitted to the Virginia DEQ on August 12, 2022. Virginia DEQ responded on August 24, 2022 confirming they had no records associated with the request.

6.10.2 Local Fire Department

ECS representative Joshua Peckham contacted the Fauquier County Department of Fire and Rescue's FOIA Representative to determine if they had historical information regarding any documented storage, spills, and/or disposals of petroleum products, chemical or hazardous substances at the site or in the immediate vicinity of the project area, or other information regarding the subject property. A Freedom of Information Act request was submitted on August 12, 2022. ECS received a response on August 8, 2018. The FOIA response detailed one incident on the adjacent property to the east on February 26, 2022 regarding a 1.5 acre brush fire caused by a utility pole surging. The report specifically states no hazardous materials were released during the incident. After a review of the records, ECS does not consider the records to show any REC for the subject property.

6.10.3 Local Health Department

ECS representative Joshua Peckham contacted the Fauquier County Department of Environmental Health to determine if they had historical information regarding any documented storage, spills, and/or disposals of petroleum products, chemical or hazardous substances at the site or in the immediate vicinity of the project area, or other information regarding the subject property. A Freedom of Information Act request was submitted on August 12, 2022. Fauquier County DEH responded on August 12, 2022 confirming they had records pertaining to the tax parcel the subject property lies on. The records pertained to a well and sewer development projects for the adjacent property to the east of the subject property. After a review of the records, ECS does not consider the records to show any REC for the subject property.

6.11 Historical Use Summary

According to historical research, the subject property has been historically used as agricultural land from at least 1927, if not earlier. Records indicate the subject parcel has been owned by Fauquier County since approximately 1993. According to historical records research and other sources, the site has historically been agricultural land. The land was partially developed starting in 2002 as a portion of the adjacent landfill. Indications of recognized environmental conditions were identified in the historical data review. The following recognized environmental conditions were identified through a review of available historical records:

The surrounding area has developed slowly from a primarily agricultural land with mixed residential homes, with increasing residential use over time. A large industrial facility was developed to the south and east around 2002. The area has remained generally consistent since the facility's construction.

- The property shares a parcel with the Fauquier County Landfill. The subject property operated as a portion of the landfill's operations as early as 2002, and the subject property was used for construction material storage by 2008 if not earlier. Records reviewed do not indicate the nature of large stockpile of materials stored on the subject property. Due to the historic use of the subject property as a part of landfill activities, and the use of the adjacent property at the times materials were stored, ECS considers the listing to be a REC for the subject property.
- Based on our review of available historical records, the adjacent facility is a landfill designated for the disposal of household trash, bulk waste and recycling, and has historically been used as such since 2002 or earlier. ECS considers the facility to represent a BER for the subject property.

7.0 SITE AND AREA RECONNAISSANCE

7.1 Methodology

Josh Peckham and Michael Bacon of ECS conducted the field reconnaissance on August 22, 2022. The weather at the time of the reconnaissance was 90 degrees Fahrenheit and sunny. Observations were made from a walking reconnaissance around the perimeter, and along several transects across the subject property. Access or visibility limitations, if any, are discussed in Section 2.6. Subject property photographs are included in Appendix V.

7.2 On-Site Features

7.2.1 Observed Geologic, Hydrogeologic, Hydrologic, and Topographic Conditions

The site generally slopes to the west. A large earthen mound rises on the east side of the property and curves across the north of the property. A tributary stream of the Mill Run stream borders the length of the western property boundary, from north to south. Groundwater flow presumably flows towards this stream. Surface flow presumably follows a similar path, but flowing slightly more south to a stormwater retention pond past the south edge of the subject property.

7.2.2 Past Site Uses

During the site reconnaissance, ECS observed the subject property for evidence of past occupancy or usage that could indicate the presence of environmental concerns. Based on current site conditions observed during the site reconnaissance, ECS presumably assumes the large mound across the property is reminiscent of former landfill operations on this portion of the parcel.

7.2.3 Current Uses

The subject property is an approximate 10 acre tract that is located in a predominantly agricultural area of Warrenton, VA. The subject property is a portion of a larger parcel currently occupied by the with similar uses. The subject property consists of a large developed earthen structure but is otherwise overgrown with herbaceous vegetation.

The table below lists pertinent features of interest that were assessed for the subject property. Relevant information regarding pertinent features is discussed further in this section. Pertinent features of environmental concern were not observed during the site reconnaissance.

Feature	Yes	No
Hazardous Substances and Petroleum Products in Connection with Identified Uses		✓
Hazardous Substance and Petroleum Product Containers Not in Connection with Identified Uses		✓
Drums, Totes, and Intermediate Bulk Containers		✓

Feature	Yes	No
Unidentified Substance Containers		✓
Underground or Aboveground Storage Tanks		✓
Strong, Pungent or Noxious Odors		✓
Standing Surface Water and Pools or Sumps Containing Liquids Likely to be Hazardous Substances or Petroleum Products		✓
Known or Suspect PCB-containing Equipment		✓
Stains or Corrosion to Floors, Walls or Ceilings		✓
Stained Soil or Pavement		✓
Floor Drains and Sump Pumps		✓
Pits, Ponds or Lagoons		✓
Stressed Vegetation		✓
Solid Waste Mounds or Non-natural Fill Materials		✓
Water/Wastewater Discharge		✓
Groundwater Wells		✓
Septic Systems or Cesspools		✓
Hydraulic Equipment (Elevators, Lifts, Compactors, Etc.)		✓
Dry Cleaning		✓
Specialized Industrial Equipment		✓
Onsite Electrical Generators		✓
Oil-water Separators		✓

Solid Waste Mounds or Non-natural Fill Materials

A large earthen mounds was observed across most of the east side of the property, extending across the north side of the property. Due to the soil surface covering of dense vegetation, ECS is not able to verify the materials buried at the subject property.

7.3 Adjoining and Nearby Properties

Contiguous and nearby properties were observed during a walking and vehicular reconnaissance of the subject property boundary and public places. The subject property is located in a rural area of Warrenton, Faquier County, Virginia.

Direction	Description	Relative Gradient	REC
North	Bingham road and a Virginia State Police station. Beyond which is a large community college complex.	Cross-gradient	No
East	Lands belonging to the Fauquier County Landfill.	Up-gradient	Yes
South	Lands belonging to the Fauquier County Landfill.	Down-gradient	No
West	Forested land containing a stream, beyond which is James Madison Highway	Down-gradient	No

Pertinent features of environmental concern were not observed on adjoining or nearby properties during the site reconnaissance.

7.4 Site and Area Reconnaissance Summary

According to our site observations and a review of adjoining and nearby properties, the subject property was used primarily as storage area for earthen material for the adjacent landfill. The subject property is located in a rural area of Fauquier County, surrounded primarily by industrial and residential land, with some commercial buildings to the north. Details pertaining to our on-site and off-site observations are referenced previously. The following RECs were identified during our on-site and off-site reconnaissance:

- A large earthen mounds was observed across most of the east side of the property, extending across the north side of the property. Due to the soil surface covering of dense vegetation, ECS is not able to verify the materials buried at the subject property. Historical records review had revealed this material originated from the adjoining landfill facilities. As ECS was not able to verify the materials at the time, ECS considers this to be a REC for the subject property.

8.0 ADDITIONAL SERVICES

ASTM guidelines identify non-scope issues, which are beyond the scope of this practice. Non-scope issues have the potential to be business environmental risks. Some of these non-scope issues include; asbestos-containing building materials, radon, lead-based paint, lead in drinking water, wetlands, and mold.

ECS was not authorized to assess non-scope issues in conjunction with this assessment.

9.0 INTERVIEWS

Copies of interview documentation are included in Appendix II.

ECS interviewed local government officials and agencies via written Freedom of Information Act requests. Information gained from such sources is included in [Section 6.10](#).

ECS attempted to contact Katherine Roberts on August 23, 2022. At the time this report was issued, ECS had not received a response. The lack of an owner interview is considered to be a data gap for the Phase I ESA process. Based on the other information reviewed, this data gap is not expected to impact our ability to render a professional opinion regarding the subject property.

10.0 FINDINGS AND CONCLUSIONS

10.1 Findings and Opinions

The subject property is identified by the Fauquier County GIS as a portion of the parcel identified with the Property Identification Number (PIN) 6983-81-0145-000 and owned by the Board of Supervisors of Fauquier County. The subject property is an approximate 10 acre tract that is located in a predominantly agricultural area of Warrenton, VA. The subject property is a portion of a much larger parcel that houses the Fauquier County Landfill facilities. The subject property consists of primarily unimproved land, with a large earthen mound rising across most of the east and north of the site. A small utility shed and some transmission lines occupy the northwest corner of the property.

The subject property is located in a rural area of Warrenton, Virginia. Based on our review of site topography and conditions observed during the site reconnaissance, it is our professional opinion that properties to the east are presumed to be hydrogeologically up-gradient of the subject property. The subject property is bound on the north by commercial facilities, on the east and south by industrial landfill facilities and on the west by undeveloped land. ECS identified the adjacent landfill operations to represent a potential BER for the subject property.

Based on the records search, site reconnaissance and interviews, it appears that the subject property has been historically used as agricultural land from at least 1952, if not earlier. Prior to 1927, it appears that the site was undeveloped. Records indicate the subject parcel has been owned by Fauquier County. Historical records prior to 1894 were not reasonably ascertainable for the subject property.

A regulatory database search report was provided by EDR. The database search involves researching a series of Federal, State, Local, and other databases for facilities and properties that are located within specified minimum search distances from the subject property. The report did not identify the subject property on the databases researched. The EDR report identified several off-site properties within the minimum ASTM search distances. Based on our review of available public records, issues associated with the the listings in the database report are not believed to represent a REC for the subject property.

ASTM E1527-21 defines a "*data gap*" as: "a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information." A "*significant data gap*" is "a data gap that affects the ability of the environmental professional to identify a recognized environmental condition." Significant data gaps that would be expected to impact our ability to render a professional opinion concerning the subject property were not identified.

ECS was not able to conduct an interview with the property owner or someone with considerable knowledge of the property. ECS considers this to be a data gap for the assessment; however, based on conditions observed at the property and the consistent use of the property since its development, the absence of an owner interview was not considered to be a significant data gap, and was not considered likely impact our ability to render a professional opinion regarding the subject property.

ECS was not able to conduct an interview with the property owner or someone with considerable knowledge of the property. ECS considers this to be a data gap for the assessment; however, based on conditions observed at the property and the consistent agricultural use of the property that converted to a portion of a C&D landfill, the absence of an owner interview was not considered to be a significant data gap, and was not considered likely impact our ability to render a professional opinion regarding the subject property.

10.2 Significant Data Gaps

" A *significant data gap*" is "a data gap that affects the ability of the environmental professional to identify a recognized environmental condition." Significant data gaps that would be expected to impact our ability to render a professional opinion concerning the subject property were not identified.

10.3 De Minimis Conditions

ECS did not identify *de minimis* conditions associated with the subject property during this assessment.

10.4 Conclusions

We have performed a Phase I Environmental Site Assessment in general conformance with the scope and limitations of ASTM E1527-21 of the Town of Warrenton DPW Complex Site A located at 8499 Bingham Road in Warrenton, Fauquier County, Virginia, the subject property. Any exceptions to, or deletions from, this practice are described in Section 2.6 of this report. This assessment has revealed the following Recognized Environmental Conditions in relation to the subject property.

- The subject property started operating as a portion of the Fauquier County Landfill that is located on the parent parcel between 2002 and 2008. The landfill was reportedly used for storage of construction & demolition (C&D) waste material. Historical records and site visit observations revealed an earthen mound to the east of the subject property that extends to the north. Records reviewed do not indicate the nature of the material stockpiled on the subject property. Due to the historic use of the subject property as a part of C&D waste landfill activities, and the same use of the adjacent property, ECS considers the historic use to represent an REC for the subject property.
- The property shares a parcel with the Fauquier County Landfill, with several of the facilities and disposal areas adjoining the subject property to the east and south. This collection site is designated for the disposal of household trash, bulk waste and recycling as well as C&D waste. Based on our review of available historical and regulatory records, the adjacent facility was cited for violations in the past, and it is possible household waste debris may be present on the subject property. As a result of this use, ECS considers the facility to represent an REC for the subject property.

11.0 REFERENCES

ASTM E1527-21. Standard Practice for Environmental Site Assessment, Phase I Environmental Site Assessment Process.

Environmental Data Resources, Inc., Aerial Photo Decade Package, dated August 15, 2022, Inquiry Number 7085107.8.

Environmental Data Resources, Inc., Certified Sanborn Map Report (no coverage), dated August 15, 2022, Inquiry Number 7085107.3.

Environmental Data Resources, Inc., City Directory Image Report, dated August 15, 2022, Inquiry Number 7085107.5.

Environmental Data Resources, Inc., Radius Map Report, dated August 15, 2022, Inquiry Number 7085107.2s.

Historic Aerials by NETR, <https://www.historicaerials.com/>.

Fauquier County Parcel Search and Zoning Map, <https://fauquiergis.maps.arcgis.com/apps/webappviewer/index.html?id=42c7a841c08b4f4cb11a3b2d3179e144>

7.5-minute USGS Topographic Map of the Warrenton, VA Quadrangle, dated 2019. <https://ngmdb.usgs.gov/topoview/>.

Appendix I: Figures



Figure 1
Site Location

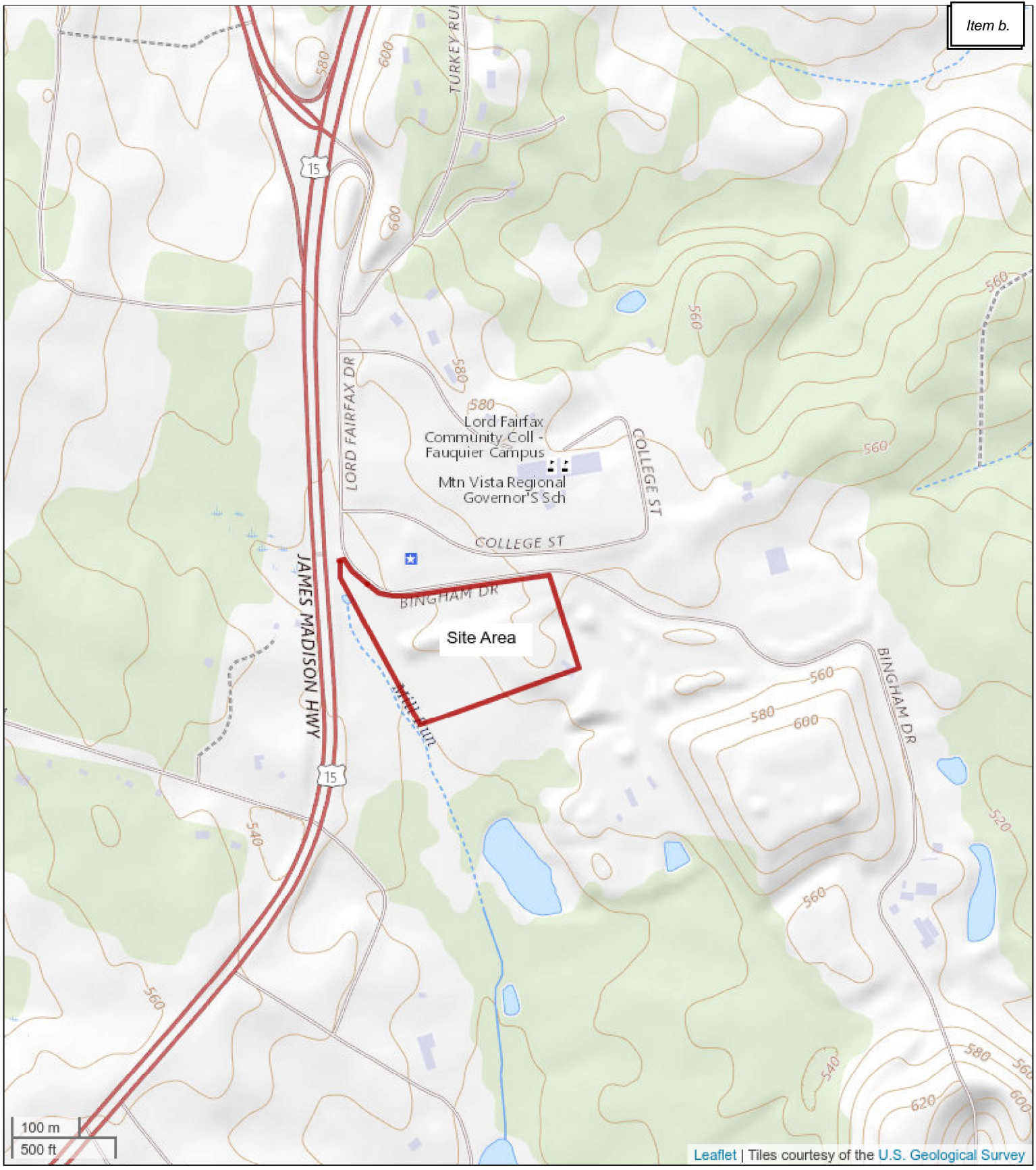


Figure 2
Topographical Map



Figure 3
Aerial Imagery

Appendix II: Interviews, Correspondence and User Questionnaire



ENVIRONMENTAL QUESTIONNAIRE

Environmental Questionnaire for User

Completion required for conformance with ASTM E 1527-13. Failure to provide this information may preclude CERCLA liability protections for the property purchaser. Please return answered form to ECS.

Site Name: _____

Name and Title of Person Completing Questionnaire (Please Print):

FRANK CASSIDY, DIRECTOR PUBLIC WORKS & UTILITIES

Signature of Person Completing Questionnaire:

[Handwritten Signature]

Date: 9/12/22

Name of Your Company and Your Contact Number (Please Print):

TOWN OF WASHINGTON, VA. 540-347-1101 X123

ASTM E 1527-13 indicates that, "Either the user shall make known to the environmental professional the reason why the user wants to have the Phase I Environmental Site Assessment performed or, if the user does not identify the purpose of the Phase I Environmental Site Assessment, the environmental professional shall assume the purpose is to qualify for an LLP to CERCLA liability and state this in the report." As the user of this ESA, what is the reason for conducting the Phase I ESA? If this question is unanswered, ECS will assume that the user's reason for the ESA is to qualify for landowner liability protections to CERCLA liability.

Please state reason for having ESA performed: FEASIBILITY STUDY

Will you provide Property Title Records and a Legal Description to ECS?

Please select one: NO YES AS POSSIBLE

Will you provide a 50-year chain of title abstract to ECS?

Please select one: NO YES

Please Send Information Promptly

(1a.) Environmental liens that are filed or recorded against the site (40 CFR 312.25). ASTM E 1527-13 states that the user should perform a review of recorded land title records and judicial records for environmental liens or activity and use limitations for the site. Please forward the results of the land title record and judicial record review. If you would prefer, ECS can obtain this information from a third party provider for an additional fee. Please let ECS know if you would like to contract ECS for this service.

Please select one: Client to Provide ECS to Provide for Additional Fee

ENVIRONMENTAL QUESTIONNAIRE

(1b.) **Activity and use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).** Are you aware of any activity and use limitations (AULs), such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

Please select one: NO YES *BUT IS A LAMATEL SITE*
If yes, please explain: _____

(2.) **Specialized knowledge** - As the user of this ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

Please select one: NO YES
If yes, please explain: _____

(3.) **Commonly known or reasonably ascertainable information about the property (40 CFR 312.30).** Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example:

(a.) Do you know the past uses of the property?

Please select one: NO YES
If yes, please state uses: *FAUGUIER COUNTY*

(b.) Do you know of specific chemicals that are present or once were present at the property?

Please select one: NO YES
If yes, please explain: _____

(c.) Do you know of spills or other chemical releases that have taken place at the property?

Please select one: NO YES
If yes, please explain: _____

ENVIRONMENTAL QUESTIONNAIRE

(d.) Do you know of any environmental cleanups that have taken place at the property?

Please select one: NO YES

If yes, please explain: _____

(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29). Does the purchase price being paid for this property reasonably reflect the fair market value of the property?

Please select one: NO YES *N/A*

If no, please explain: _____

If you are aware that there is a difference, is the lower purchase price because contamination is known or believed to be present at the property?

Please select one: NO YES *N/A*

If yes, please explain: _____

(5.) Parcel Property Owner(s) & Contact Number(s):

- A. *FARQUHAR Company*
- B. _____
- C. _____
- D. _____

Property Manager and Occupant(s) & Contact Number(s)

Property Manager: _____
Occupant/Tenant: _____
Occupant/Tenant: _____

(6.) The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31). As the user of this ESA, based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?

Please select one: NO YES *intended*

If yes, please explain: _____

Josh Peckham

From: DEQ-NRO FOIA, rr <nrofoia@deq.virginia.gov>
Sent: Friday, August 19, 2022 5:43 PM
To: Josh Peckham; rr DEQ-NRO FOIA
Subject: [EXTERNAL] (716-23-0234) *NEW SUBMISSION* Freedom of Information Act Request

Good afternoon,

Please be advised that it is not possible to provide the requested records or determine whether they are available within the five working days required by FOIA due to technical difficulties at our Northern Regional Office. Therefore, we are invoking subsection B4 of § 2.2-3704 to provide us with seven additional working days to respond to your request. We will deliver a response on or before 8/30/22.

Thank you,
Emma

Emma Murphy (she/her/hers)
FOIA Technician
Virginia Department of Environmental Quality
Northern Regional Office
13901 Crown Court, Woodbridge, VA 22193
Main: 703-583-3800

Please submit all FOIA requests and correspondence to NROfoia@deq.virginia.gov

----- Forwarded message -----

From: **DEQ Website** <DEQCommunications@deq.virginia.gov>
Date: Fri, Aug 12, 2022 at 12:40 PM
Subject: *NEW SUBMISSION* Freedom of Information Act Request
To: nrofoia@deq.virginia.gov <nrofoia@deq.virginia.gov>

Freedom of Information Act Request

Submission #: 1889567
IP Address: 184.185.47.218
Submission Date: 08/12/2022
Survey Time: 12 minutes, 48 seconds

You have a new online form submission. To download a copy in PDF format, please click [here](#).

Note: a download will promptly begin but may take up to a few minutes to complete pending the overall submission size.

Thank you,
Virginia DEQ

This is an automated message generated by Granicus. Please do not reply directly to this email.

Did you know the information you are looking for may already be online? We have compiled a list of the most frequently requested FOIA items. Please take a moment to review our [online resources](#).

Request submitted by:

*** Name**

Joshua Peckham

*** Date**

08/12/2022

* I am a Virginia resident

Yes

*** Email**

jpeckham@ecslimited.com

Phone Number

(571) 919-0668

Information Requested

Please provide past history and current usage of property. Any information is helpful (*Example: private residence, undeveloped land, current operating business, former business, industrial property, etc*).

*** Please be as specific as possible in describing the information you are requesting.**

ECS Mid-Atlantic, LLC (ECS) is currently conducting an environmental investigation for a portion of the referenced site. As a portion of our investigation, we are interested in obtaining any information your office may have regarding any documented storage, spills, and/or disposals of petroleum products, chemical or hazardous substances at the site or in the immediate vicinity of the project area.

Read-Only Content

Facility

Facility Name (if known)

8499 Bingham Rd. (parcel no. 6983-81-0145-000)

Former Name/Owner (if known)

BOARD OF SUPERVISORS OF FAUQUIER COUNTY

Full Address

8499 Bingham Rd.

Warrenton Virginia 20187

Additional Information

ECS is contracted to investigate an approximate 10-acre, primarily undeveloped, portion in the northwest of tax parcel number 6983-81-0145-000

* What date range is this requested for?

Other

From

08/12/1972 12:00 AM

To

08/12/2022 12:00 AM

* Add another facility?

No

Where do I send my request?

Please submit your request to the regional office that oversees the facility. Statewide requests should be sent to **Central Office**.

- Select **Blue Ridge Regional Office** if the facility is within the following counties or cities:
 - *Counties:* Alleghany, Amherst, Appomattox, Bedford, Botetourt, Campbell, Charlotte, Craig, Floyd, Franklin, Giles, Halifax, Henry, Montgomery, Patrick, Pittsylvania, Pulaski, and Roanoke
 - *Cities:* Bedford, Clifton Forge, Danville, Covington, Lynchburg, Martinsville, Radford, Roanoke and Salem

- Select **Northern Regional Office** if the facility is within the following counties or cities:
 - *Counties:* Arlington, Caroline, Culpeper, Fairfax, Fauquier, King George, Loudoun, Louisa, Madison, Orange, Prince William, Rappahannock, Spotsylvania, and Stafford
 - *Cities:* Alexandria, Fairfax, Falls Church, Fredericksburg, Manassas and Manassas Park

- Select **Piedmont Regional Office** if the facility is within the following counties or cities:
 - *Counties:* Amelia, Brunswick, Buckingham, Charles City, Chesterfield, Cumberland, Dinwiddie, Essex, Gloucester, Goochland, Greenville, Hanover, Henrico, King and Queen, King William, Lancaster, Lunenburg, Mathews, Mecklenburg, Middlesex, New Kent, Northumberland, Nottoway, Powhatan, Prince Edward, Prince George, Richmond, Surry, Sussex, and Westmoreland
 - *Cities:* Colonial Heights, Emporia, Hopewell, Petersburg, and Richmond

- Select **Southwest Regional Office** if the facility is within the following counties or cities:
 - *Counties:* Bland, Buchanan, Carroll, Dickenson, Grayson, Lee, Russell, Scott, Smyth, Tazewell, Washington, Wise, and Wythe
 - *Cities:* Bristol, Galax and Norton

- Select **Tidewater Regional Office** if the facility is within the following counties or cities:
 - *Counties:* Accomack, Isle of Wight, James City, Northampton, Southampton and York
 - *Cities:* Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg

- Select **Valley Regional Office** if the facility is within the following counties or cities:
 - *Counties:* Albemarle, Augusta, Bath, Clarke, Fluvanna, Frederick, Greene, Highland, Nelson, Page, Rockbridge, Rockingham, Shenandoah, and Warren
 - *Cities:* Buena Vista, Charlottesville, Harrisonburg, Lexington, Staunton, Waynesboro, and Winchester

For Commonwealth-wide records, please select **Central Office**.

* Regional Office

Northern Regional Office

Josh Peckham

From: Josh Peckham
Sent: Friday, August 12, 2022 12:27 PM
To: darren.stevens@fauquiercounty.gov
Subject: Town of Warrenton DPW Complex Site A FOIA Request
Attachments: Town of Warrenton DPW Complex Site A FOIA Request.pdf

Good Afternoon,

Please see attached FOIA request on behalf of ECS Mid Atlantic LLC. Please let me know if you have questions or if I should direct my correspondence to a different contact.

Respectfully,

JOSH PECKHAM | Environmental Scientist
ECS MID-ATLANTIC, LLC
T 703.471.8400 **D** 571.919.0668 **C** 571.919.0668
14026 Thunderbolt Place, Suite 100, Chantilly, VA 20151-3232
JPeckham@ecslimited.com | www.ecslimited.com

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County of Fauquier
Department of Fire, Rescue and Emergency Management

30 John Marshall Street
Warrenton, Virginia 20186
Phone (540) 422-8800 Fax (540) 422-8813
<http://www.fauquierfirerescue.org>



Darren L. Stevens, MPA, CFOD
Fire Rescue Chief / Fire Marshal
darren.stevens@fauquiercounty.gov

Michael E. Gillam, MPA
Assistant Fire Rescue Chief
michael.gillam@fauquiercounty.gov

Tom Marable,
VFRA President
tom.marable@fauquiercounty.gov

August 18, 2022

Attn: Josh Peckham
ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Ste. 100
Chantilly, VA 20151

Re: PIN: 6983-81-0145-000, 199.90 Acres, 8499 Bingham Road, Warrenton, VA 20187

Dear Mr. Peckham,

This is in response to your inquiry regarding the above address. Our records department is able to search all dispatched emergency services calls in the last ten years. Information in regards to any known fires or code violations on the premises would be included in this search. There was an incident on 2/26/22. The incident report is attached.

In regards to illegal dumping or hazardous material spills on the property, these incidents would only be recorded if HazMat or other Fauquier County Emergency Services were called to the property via 911. The incident mentioned above did call HazMat, but nothing was found. That is also included in the attached report.

For records on building permits, and the use of storage tanks, wells, or septic systems on the property, please contact Fauquier County Community Development at 540-422-8200, email holly.meade@fauquiercounty.gov. In addition, we suggest that you contact the VA Department of Environmental Quality (DEQ) at 703-583-3800 to see what information they may be able to provide to help you complete your search.

If you have additional questions, please feel free to contact me at 540-422-8800 or by email at lindsay.flippo@fauquiercounty.gov.

Best Regards,

Lindsay Flippo
Fire, Rescue, & Emergency Management
Fauquier County



NFIRS-1 Basic

A

06100	VA	02	26	2022	Warrenton Vol. Fire & Rescue (1101)	2201600	0
FDID	State	Month	Day	Year	Station	Number	Exposure

B Location Type

Census tract:

Street Address
 Intersection
 In Front Of
 Rear Of
 Adjacent To
 Directions
 US National Grid

8499		BINGHAM	RD-Road	
Number	Prefix	Street or Highway	Street Type	Suffix

	WARRENTON	VA	20187
Apt./Suite/Room	City	State	Zip Code

Cross Street

Additional location information for this incident is provided on the Wildland Fire Module in Section B, "Alternative Location Specification."

C Incident Type

D Aid Given Or Received

1 Mutual Aid Received
 2 Auto. Aid Received
 3 Mutual Aid Given
 4 Auto. Aid Given
 5 Other Aid Given
 None

<input type="text"/>	<input type="text"/>
Their FDID	Their State
<input type="text"/>	
Their Incident Number	

E1 Dates and Times

Alarm	02	26	2022	13:34
Arrival	02	26	2022	13:41
Controlled	02	26	2022	16:14
Last Unit Cleared	02	26	2022	16:14

E2 Shifts and Alarms

A Shift	<input type="text"/>	0145
---------	----------------------	------

Shift or Alarms District
Platoon

E3 Special Studies

9244	3 - No, COVID 19 was not a factor
ID#	Value

F Actions Taken

11-Extinguishment by fire service personnel

Primary Action Taken

G1 Resources

Apparatus or Personnel Module is used.

	Apparatus	Personnel
Suppression	11	19
EMS	1	3
Other	5	2

Resource counts include aid received resources.

G2 Estimated Dollar Losses and

Losses: Required for all fires if known. Optional for all non-fires. None

Property: \$ 2,000.00

Contents: \$ 0

Pre-Incident Values: Optional None

Property: \$ 2,000.00

Contents: \$

Completed Modules

- 2 - Fire
- 3 - Structure Fire
- 4 - Civilian Fire Cas.
- 5 - Fire Service Cas.
- 6 - EMS
- 7 - HazMat
- 8 - Wildland Fire
- 9 - Apparatus
- 10 - Personnel
- 11 - Arson

H1 Casualties None

	Deaths	Injuries
Fire Service	0	0
Civilian	0	0

H2 Detector

Required for Confined Fires

- 1 - Detector Alerted Occupants
- 2 - Detector Did Not Alert Them
- 3 - Unknown

H3 Hazardous Materials Release

- 1 - Natural Gas
- 2 - Propane Gas
- 3 - Gasoline
- 4 - Kerosene
- 5 - Diesel Fuel / Fuel Oil
- 6 - Household Solvents
- 7 - Motor Oil
- 8 - Paint
- 0 - Other
- None

I Mixed Use Property

- Not Mixed
- 10 - Assembly Use
- 20 - Education Use
- 33 - Medical Use
- 40 - Residential Use
- 51 - Row Of Stores
- 53 - Enclosed Mall
- 58 - Business and Residential
- 59 - Office Use
- 60 - Industrial Use
- 63 - Military Use
- 65 - Farm Use
- 00 - Other Mixed Use

J Property Use None

Structures

131 <input type="checkbox"/> Church, Place of Worship	341 <input type="checkbox"/> Clinic, Clinic-Type Infirmary	539 <input type="checkbox"/> Household Goods, Sales, Repairs
161 <input type="checkbox"/> Restaurant or Cafeteria	342 <input type="checkbox"/> Doctor/Dentist Office	571 <input type="checkbox"/> Gas or Service Station
162 <input type="checkbox"/> Bar/Tavern or Nightclub	361 <input type="checkbox"/> Prison or Jail, Not Juvenile	579 <input type="checkbox"/> Motor Vehicle/Boat Sales/Repairs
213 <input type="checkbox"/> Elementary School, Kindegarten	419 <input type="checkbox"/> 1- or 2-Family Dwelling	599 <input type="checkbox"/> Business Office
215 <input type="checkbox"/> High School, Junior High	429 <input type="checkbox"/> MultiFamily Dwelling	615 <input type="checkbox"/> Electric-Generating Plant
241 <input type="checkbox"/> College, Adult Education	439 <input type="checkbox"/> Rooming/Boarding House	629 <input type="checkbox"/> Laboratory/Science Laboratory
311 <input type="checkbox"/> Nursing Home	449 <input type="checkbox"/> Commerical Hotel or Motel	700 <input type="checkbox"/> Manufacturing Plant
331 <input type="checkbox"/> Hospital	459 <input type="checkbox"/> Residential, Board and Care	819 <input type="checkbox"/> Livestock/Poultry Storage (Barn)
	464 <input type="checkbox"/> Dormitory/Barracks	882 <input type="checkbox"/> Non-Residential Parking Garage
	519 <input type="checkbox"/> Food and Beverage Sales	891 <input type="checkbox"/> Warehouse

Outside

124 <input type="checkbox"/> Playground or Park	938 <input type="checkbox"/> Graded/Cared for Plot of Land	Property Use: <input type="text"/> Description Look up and enter a Property Use code and description only if you have NOT checked a Property Use box.
655 <input type="checkbox"/> Crops or Orchard	946 <input type="checkbox"/> Lake, River, Stream	
669 <input type="checkbox"/> Forest (Timberland)	951 <input type="checkbox"/> Railroad Right-of-Way	
807 <input type="checkbox"/> Outdoor Storage Area	960 <input type="checkbox"/> Other Street	
919 <input type="checkbox"/> Dump or Sanitary Landfill	961 <input type="checkbox"/> Highway/Divided Highway	
931 <input checked="" type="checkbox"/> Open Land or Field	962 <input type="checkbox"/> Residential Street/Driveway	
936 <input type="checkbox"/> Vacant Lot	981 <input type="checkbox"/> Construction Site	
	984 <input type="checkbox"/> Industrial Plant Yard	

K2

Owner

Local Option		Person/Entity Type	Business Name (if applicable)	Phone Number
Mr., Ms., Mrs.	First Name	MI	Last Name	Suffix
Number	Prefix	Street or Highway	Street Type	Suffix
Post Office Box	Apt./Suite/Room		City	
State		Zip Code		

L Remarks:

Aos to find about an acre & 1/2 brush fire involving plastic barrels & a small gas motor machine. A 1 3/4 line was placed in service knocking the bulk of the fire quickly. Incident was scaled back to Co 1101 units, EMS1101, BC1101 & E1102. Once fire was knocked W1101 remained on scene awaiting the fire Marshall. Fire was deemed unintentional and caused by a power surge at the utility pole.

M Authorization

Officer In Charge ID	Signature	Position or Rank	Assignment	Date
C721	Hunter, Charles, Jr	Lieutenant		02/27/2022
Member Making Report ID	Signature	Position or Rank	Assignment	Date

NFIRS-2 Fire

Item b.

A

06100	VA	02	26	2022	Warrenton Vol. Fire & Rescue (1101)	2201600	0
FDID	State	Month	Day	Year	Station	Number	Exposure

<p>B</p> <p>Property Details</p> <p>B1 <input type="text"/> <input type="checkbox"/> Not Residential Estimated number of residential living units in the building of origin whether or not all units became involved</p> <p>B2 <input type="text"/> <input type="checkbox"/> Buildings Not Involved Number of buildings involved</p> <p>B3 <input type="text"/> <input type="checkbox"/> None <input type="checkbox"/> Less than 1 acre Acres burned (outside fires)</p>	<p>C</p> <p>On-Site Materials Or Products</p> <p>On-Site Materials Storage Use</p>
---	---

<p>D</p> <p>Ignition</p> <p>D1 <input type="text"/> 94-Open area, outside; included are farmland, field Area of Fire Origin</p> <p>D2 <input type="text"/> 13-Electrical arcing Heat Source</p> <p>D3 <input type="text"/> 72-Light vegetation - not crop, including grass Item First Ignited</p> <p>D4 <input type="text"/> Type of Material First Ignited</p>	<p>E1</p> <p>Cause of Ignition</p> <p><input type="checkbox"/> 1 - Intentional <input type="checkbox"/> 2 - Unintentional <input checked="" type="checkbox"/> 3 - Failure of Equipment or Heat Source <input type="checkbox"/> 4 - Act of Nature <input type="checkbox"/> 5 - Cause Under Investigation <input type="checkbox"/> U - Cause Undetermined After Investigation</p> <hr/> <p>E2</p> <p>Factors Contributing to Ignition</p> <p><input type="text"/> 33-Short-circuit arc from defective, worn insulation Factor Contributing to Ignition</p>	<p>E3</p> <p>Human Factors Contributing to Ignition</p> <p>Check all applicable boxes</p> <p><input checked="" type="checkbox"/> None <input type="checkbox"/> 1 - Asleep <input type="checkbox"/> 2 - Possibly impaired by alcohol or drugs <input type="checkbox"/> 3 - Unattended person <input type="checkbox"/> 4 - Possibly Mentally Disabled <input type="checkbox"/> 5 - Physically Disabled <input type="checkbox"/> 6 - Multiple Persons Involved</p> <hr/> <p><input type="checkbox"/> 7 - Age Was A Factor</p> <p>Estimated Age of Person Involved <input type="text"/></p> <p><input type="checkbox"/> Male <input type="checkbox"/> Female</p>
---	--	--

<p>F1</p> <p>Equipment Involved In Ignition</p> <p><input checked="" type="checkbox"/></p> <p><input type="text"/> Equipment Involved</p> <p>Brand <input type="text"/> Model <input type="text"/> Serial # <input type="text"/> Year <input type="text"/></p>	<p>F2</p> <p>Equipment Power Source</p> <p><input checked="" type="checkbox"/></p> <p><input type="text"/> Equipment Power Source</p> <hr/> <p>F3</p> <p>Equipment Portability</p> <p><input type="checkbox"/> 1 - Portable <input type="checkbox"/> 2 - Stationary Portable equipment normally can be moved by one or two persons.</p>	<p>G</p> <p>Fire Suppression Factors</p>
--	---	--

Item b.

<p>H1</p> <p>Mobile Property Involved</p> <p><input type="checkbox"/> 1 - Not involved in ignition, but burned</p> <p><input type="checkbox"/> 2 - Involved in ignition, but did not burn</p> <p><input type="checkbox"/> 3 - Involved in ignition and burned</p> <p><input checked="" type="checkbox"/> None</p>	<p>H2</p> <p>Mobile Property Type and Make</p> <p><input type="checkbox"/></p> <p>Mobile Property Type</p> <p><input type="text"/></p> <p>Mobile Property Make</p>	<p>Local Use</p> <p><input type="checkbox"/> Pre-Fire Plan Available</p> <p><input type="checkbox"/> Arson Report Attached</p> <p><input type="checkbox"/> Police Report Attached</p> <p><input type="checkbox"/> Coroner Report Attached</p> <p><input type="checkbox"/> Other Reports Attached</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
<p><input type="text"/></p> <p>Mobile Property Model</p> <p><input type="text"/></p> <p>State</p>	<p><input type="text"/></p> <p>Year</p> <p><input type="text"/></p> <p>License Plate Number</p> <p><input type="text"/></p> <p>VIN</p>	

NFIRS-7 HazMat

Item b.

A

06100	VA	02	26	2022	Warrenton Vol. Fire & Rescue (1101)	2201600	0
FDID	State	Month	Day	Year	Station	Number	Exposure

NFIRS-9 Apparatus or Resources

Item b.

A

06100	VA	02	26	2022	Warrenton Vol. Fire & Rescue (1101)	2201600	0
FDID	State	Month	Day	Year	Station	Number	Exposure

B Apparatus/Resource		Dates/Times		Sent	Number of People	Apparatus Use	Actions Taken
ID:	BC1101	Dispatch:	02/26/2022 13:34	<input type="checkbox"/> Sent	0	<input type="checkbox"/> Suppression <input type="checkbox"/> EMS <input checked="" type="checkbox"/> Other	
Type:	92-Chief officer car	Arrival:					
		Clear:					
ID:	CF1102	Dispatch:	02/26/2022 13:34	<input checked="" type="checkbox"/> Sent	1	<input type="checkbox"/> Suppression <input type="checkbox"/> EMS <input checked="" type="checkbox"/> Other	86-Investigate
Type:	92-Chief officer car	Arrival:					
		Clear:					
ID:	CF1102	Dispatch:	02/26/2022 13:37	<input type="checkbox"/> Sent	0	<input type="checkbox"/> Suppression <input type="checkbox"/> EMS <input checked="" type="checkbox"/> Other	
Type:	00-Other apparatus/resource	Arrival:	02/26/2022 13:44				
		Clear:	02/26/2022 14:27				
ID:	E1102	Dispatch:	02/26/2022 13:34	<input type="checkbox"/> Sent	3	<input checked="" type="checkbox"/> Suppression <input type="checkbox"/> EMS <input type="checkbox"/> Other	76-Provide water
Type:	11-Engine	Arrival:					
		Clear:					
ID:	E1103	Dispatch:	02/26/2022 13:34	<input type="checkbox"/> Sent	0	<input checked="" type="checkbox"/> Suppression <input type="checkbox"/> EMS <input type="checkbox"/> Other	
Type:	11-Engine	Arrival:					
		Clear:					
ID:	E1107	Dispatch:	02/26/2022 13:34	<input checked="" type="checkbox"/> Sent	3	<input checked="" type="checkbox"/> Suppression <input type="checkbox"/> EMS <input type="checkbox"/> Other	93-Cancelled en route
Type:	11-Engine	Arrival:					
		Clear:					
ID:	E1107	Dispatch:	02/26/2022 13:39	<input type="checkbox"/> Sent	0	<input checked="" type="checkbox"/> Suppression <input type="checkbox"/> EMS <input type="checkbox"/> Other	
Type:	11-Engine	Arrival:					
		Clear:	02/26/2022 13:46				
ID:	E1113	Dispatch:	02/26/2022 13:34	<input type="checkbox"/> Sent	0	<input checked="" type="checkbox"/> Suppression <input type="checkbox"/> EMS <input type="checkbox"/> Other	
Type:	11-Engine	Arrival:					
		Clear:	02/26/2022 13:40				
ID:	ES1101	Dispatch:	02/26/2022 13:34	<input type="checkbox"/> Sent	1	<input type="checkbox"/> Suppression <input type="checkbox"/> EMS <input checked="" type="checkbox"/> Other	81-Incident command
Type:	70-Medical & rescue unit, other	Arrival:					
		Clear:					
ID:	FM1101	Dispatch:	02/26/2022 13:56	<input type="checkbox"/> Sent	0	<input type="checkbox"/> Suppression <input type="checkbox"/> EMS <input type="checkbox"/> Other	
Type:		Arrival:	02/26/2022 14:55				
		Clear:	02/26/2022 16:14				
ID:	M1101	Dispatch:	02/26/2022 13:34	<input type="checkbox"/> Sent	3	<input type="checkbox"/> Suppression	

Type: 76-ALS unit	Arrival: 02/26/2022 13:42	<input checked="" type="checkbox"/> EMS <input type="checkbox"/> Other	11-Extinguishment by fire s personnel	Item b.
	Clear: 02/26/2022 14:27			
ID: RE1113	Dispatch: 02/26/2022 13:34	<input checked="" type="checkbox"/> Sent 3	<input checked="" type="checkbox"/> Suppression <input type="checkbox"/> EMS <input type="checkbox"/> Other	93-Cancelled en route
Type: 71-Rescue unit	Arrival: <input type="checkbox"/> <input type="checkbox"/>			
	Clear: <input type="checkbox"/> <input type="checkbox"/>			
ID: RE1113	Dispatch: 02/26/2022 13:36	<input type="checkbox"/> Sent 0	<input checked="" type="checkbox"/> Suppression <input type="checkbox"/> EMS <input type="checkbox"/> Other	<input type="checkbox"/>
Type: 11-Engine	Arrival: <input type="checkbox"/> <input type="checkbox"/>			
	Clear: 02/26/2022 13:46			
ID: TL1101	Dispatch: 02/26/2022 13:34	<input type="checkbox"/> Sent 2	<input checked="" type="checkbox"/> Suppression <input type="checkbox"/> EMS <input type="checkbox"/> Other	<input type="checkbox"/>
Type: 12-Truck or aerial	Arrival: <input type="checkbox"/> <input type="checkbox"/>			
	Clear: <input type="checkbox"/> <input type="checkbox"/>			
ID: W1101	Dispatch: 02/26/2022 13:36	<input type="checkbox"/> Sent 5	<input checked="" type="checkbox"/> Suppression <input type="checkbox"/> EMS <input type="checkbox"/> Other	10-Fire control or extinguishment, other
Type: 11-Engine	Arrival: 02/26/2022 13:41			
	Clear: 02/26/2022 15:01			
ID: W1110	Dispatch: 02/26/2022 13:34	<input type="checkbox"/> Sent 3	<input checked="" type="checkbox"/> Suppression <input type="checkbox"/> EMS <input type="checkbox"/> Other	93-Cancelled en route
Type: 11-Engine	Arrival: <input type="checkbox"/> <input type="checkbox"/>			
	Clear: <input type="checkbox"/> <input type="checkbox"/>			
ID: X1101	Dispatch: 02/26/2022 13:44	<input type="checkbox"/> Sent 0	<input checked="" type="checkbox"/> Suppression <input type="checkbox"/> EMS <input type="checkbox"/> Other	<input type="checkbox"/>
Type: 16-Brush truck	Arrival: <input type="checkbox"/> <input type="checkbox"/>			
	Clear: 02/26/2022 13:51			

NFIRS-1S Supplemental

Item b.

A

06100	VA	02	26	2022	Warrenton Vol. Fire & Rescue (1101)	2201600	0
FDID	State	Month	Day	Year	Station	Number	Exposure

Apparatus Narrative for E1107:

Engine 7 responded with 3 personnel and was cancelled enroute.

Apparatus Narrative for RE1113:

Placed in service

Apparatus Narrative for W1110:

Dispatched and cancelled by command during response..

Verification



HEALTH DEPARTMENT VERIFICATION

Building Permit # _____
Health Department File # _____

Division of Zoning & Development Services
Fauquier County Department of Community Development 29
Ashby Street, Suite 310, Warrenton, Virginia 20186
Building Phone: 540-422-8230
Facsimile: 540-422-8231

Fauquier County Health Department Environmental
Health Services
98 Alexandria Pike, Suite 42, Warrenton, VA 20186
Phone: 540-347-6363
Facsimile: 540-347-6373

When constructing improvements on your property, or adding commercial uses, it is critical to avoid damaging the existing septic system and reserve area through discharge overloading or physical damage. The purpose of this form is to 1) ensure that property owners are fully aware of the potential hazards to the well, septic system and reserve area, and of their responsibility to protect these systems; and to 2) facilitate coordination between the Health Department and Zoning & Development Services.

PART 1 | **PROPERTY AND PROJECT VERIFICATION**

Property Address: 8499 Bingham Road Warrenton, Va 20186 PIN: 6983-81-0145

Applicant Phone Number: 540-422-8835

Description of Work to be Permitted: Construct a shed 24' x 100' (maximum)

PART 2 | **SEPTIC AND WELL VERIFICATION**

For all project types listed below, PART 2A must be signed by the property owner/agent and then reviewed and approved by the Health Department prior to submission of a Building/Zoning Permit to the Building office. For project types not listed, Health Department review is not required and the property owner/agent shall complete PART 2B. **PLEASE CHECK ALL THAT APPLY:**

- Alteration or addition which increases the number of bedrooms- exceeding the current operations permit
- Geothermal system
- Abandonment of a well or septic system
- Change in Use or addition of commercial use to residential
- Any accessory structure that includes plumbing fixtures.

- Addition which increases the footprint of the home, except porches & decks
- Accessory structure larger than 256 sq. ft., including barns, sheds, and pools and pool houses that are proposed within 100' of well & septic
- Other not specified

Please fill out ONLY ONE column below:

PART 2A Health Department Verification - \$25.00	PART 2B Property Owner Verification
<p>The County's completed Building/Zoning Permit Application shall accompany the submission to the Health Department, to include one (1) copies of a location survey or plat, drawn to scale, that shows property boundaries, all existing structures, driveways and other paving, areas of proposed grading, location of new buildings and the location of the well, drainfield, reserve drainfields and all septic system components, including tanks. The Health Department will review the application for potential impacts to the well and septic system.</p> <p><i>I hereby give permission to the Health Department to enter onto the above referenced property for the purpose of processing this application and determining compliance with Health Department requirements.. I certify that, to the best of my knowledge, the attached application site sketch are true, correct, and complete.</i></p> <p><u>Michael T. Dorsey</u> Owner/Agent Printed Name</p> <p><u>Michael T. Dorsey</u> / <u>11-18-16</u> Owner/Agent Signature Date</p>	<p>I certify that: 1) I am not increasing the number of bedrooms with this project; 2) I know the location of the wells, drainfields, drainfield reserve areas and all septic system components, including tanks on the above referenced property; and have determined that the proposed function will not affect either system, 3) all required setbacks from such systems are being maintained and that access to the system for maintenance is not affected (see Table HD 1); and 4) I acknowledge that it is my responsibility to protect these systems.</p> <p><u>Michael T. Dorsey</u> Owner/Agent Printed Name</p> <p><u>Michael T. Dorsey</u> / <u>11-18-16</u> Owner/Agent Signature Date</p>

FOR HEALTH DEPARTMENT APPROVAL ONLY:

[Signature] / 11-30-16
Health Department Signature Date

Additional Health Department Comments: No Plumbing Fixtures

Table HD 1

Minimum Separation Distances for Septic Tanks, Pretreatment Units, Pump Tanks, Conveyance Lines, and Header Lines

<u>Structure or Topographic Feature</u>	<u>Minimum Horizontal Distance</u>
Property Lines	5'
Building Foundations	10'
Basements	20'
Top edge of banks and cuts (i.e. grading)	10'
Utility Lines	10'

For a complete list see: 12 VAC5-610 and Fauquier Ordinance Chapter17

Minimum Separation Distances for Drainfield Area and Reserve Area

<u>Structure or Topographic Feature</u>	<u>Minimum Horizontal Distance</u>
Property Lines	5'
Building Foundations	10'
Basements	20'
Top edge of banks and cuts (i.e. grading)	20'
Utility Lines	10'

For a complete list see: 12 VAC5-610 and Fauquier Ordinance Chapter17

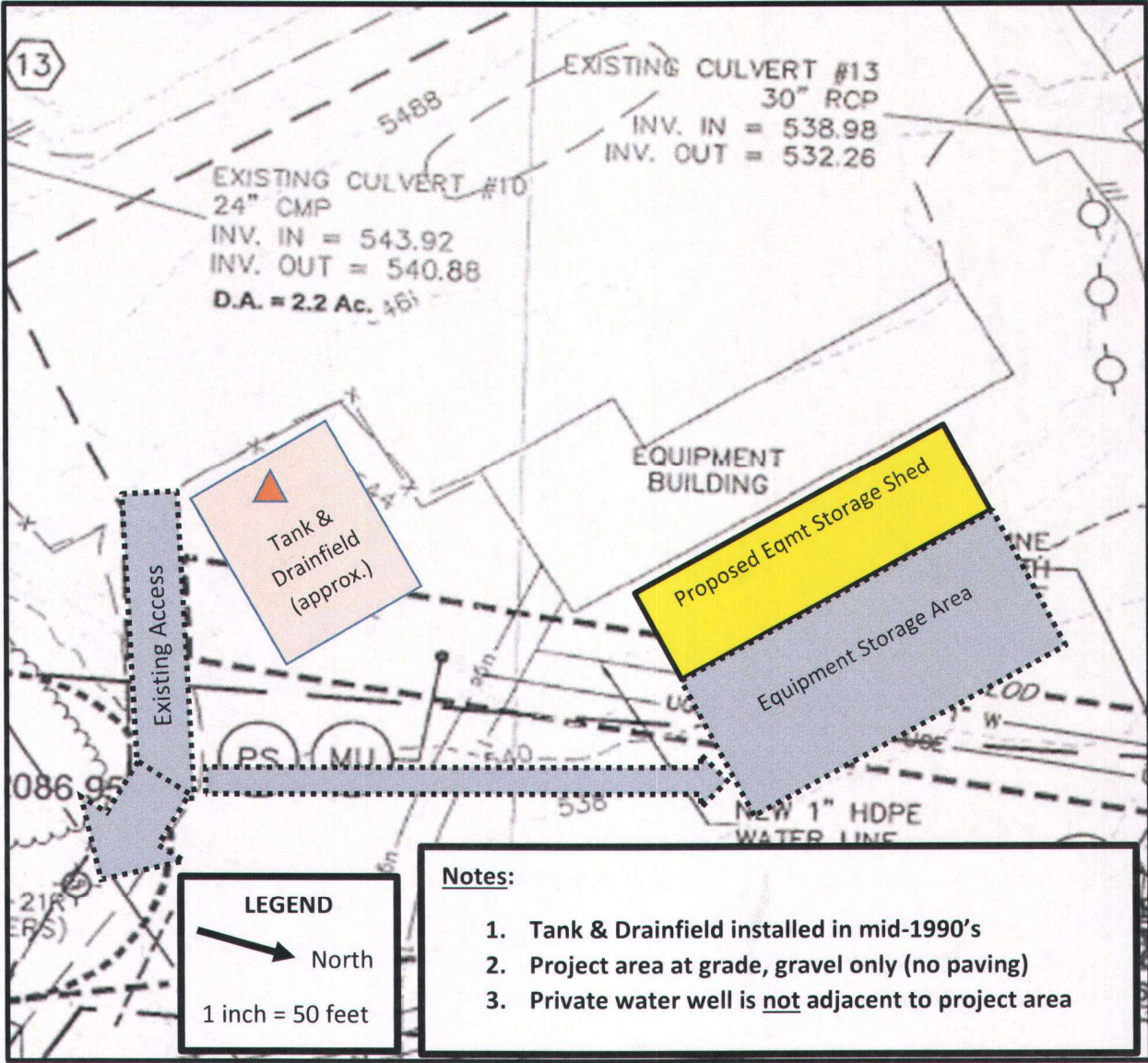
Minimum Separation Distances between a Well and a Structure or topographic feature

<u>Structure or Topographic Feature</u>	<u>Class III C or IV</u>	<u>Class III A or B</u>
Property Lines	10'	10'
Building Foundation	15'	15'
Building Foundation (Termite Treated)	50'	50'
House Sewer Line	50'	50'
Sewer Main / Force Main	50'	50'
Sewerage System	50'	50'
Sewage System or other contaminant source (e.g., drainfield, underground storage tank, barnyard, hog lot, etc.)	100'	50'
Cemetery	100'	50'
Sewage Dump Station	100'	50'

For a complete list see: 12 VAC5-630 and Fauquier Ordinance Chapter19

Please call the Fauquier County Health Department at 540-347-6363 if you have any questions or concerns about your project and remember that it is recommended that you have your septic tank pumped every (3) three to (5) five years.

**PROPOSED EQUIPMENT STORAGE SHED
CORRAL FARM SANITARY LANDFILL
FAUQUIER COUNTY**



Sewage Disposal System Construction Permit

Commonwealth of Virginia
Department of Health

Health Department
Identification Number SD-93-655
Map Reference Subd

Fauquier County Health Department



General Information

New Repair Expanded Conditional FHA VA Case No. _____
 Based on the application for a sewage disposal system construction permit filed in accordance with Section 3.13.01, a construction permit is hereby issued to:
 Owner Fauquier County Solid Waste Telephone (703) 347-6800
 Address 78111 Lee St, Springfield, VA 22156
 For a Type I Sewage disposal system which is to be constructed on/at entrance to land fill area
 Subdivision Conrad Townlands Section/Block _____ Lot _____
 Actual or estimated water use 150 gpd LBR EQUIVALENT

DESIGN

NOTE: INSPECTION RESULTS

Water supply, existing: (describe) N/A
signs must be posted at all spigots
 To be installed: class III B Non Potable grout
 cased Salina to Rock grouted Salina to Rock

Water supply location: Satisfactory yes no comments _____
 G. W. 2 Received: yes no not applicable

Building sewer: install 4" as Inst.
4" I.D. PVC 40, or equivalent.
 Slope 1.25" per 10' (minimum).
 Other smooth pipe to DB

Building sewer: yes no comments _____
 Satisfactory

Septic tank: Capacity 1000 gals. (minimum).
 Other No gauging

Pretreatment unit: yes no comments _____
 Satisfactory

Inlet-outlet structure: 8" in 18" cast
 PVC 40, 4" tees or equivalent.
 Other Stub T" 1" Release Lids

Inlet-outlet structure: yes no comments _____
 Satisfactory

Pump and pump station:
 No Yes describe and show design.
 if yes: _____

Pump & pump station: yes no comments _____
 Satisfactory

Gravity mains: 6" or larger I.D., minimum 6" fall per 100', 1500 lb crush strength or equivalent.
 Other _____

Conveyance method: yes no comments _____
 Satisfactory

Distribution box:
 Precast concrete with 5+ ports.
 Other Bed on 4" concrete PPD

Distribution box: yes no comments _____
 Satisfactory

Header lines:
 Material: 4" I.D. 1500 lb. crush strength plastic or equivalent from distribution box to 2' into absorption trench.
 Slope 2" minimum.
 Other _____

Header lines: yes no comments _____
 Satisfactory

Percolation lines:
 Gravity 4" plastic 1000 lb. per foot bearing load or equivalent, slope 2" 4" (min. max.) per 100'.
 Other _____

Percolation lines: yes no comments _____
 Satisfactory

Absorption trenches:
 Square ft. required 672; depth from ground surface to bottom of trench 48"; aggregate size 1/2 to 1";
 Trench bottom slope 2.4" per 100';
 center to center spacing 9'; trench width 3'
 Depth of aggregate 13.1";
 Trench length 56'; Number of trenches 4

Absorption trenches: yes no comments _____
 Satisfactory

Date _____ Inspected and approved by: _____

Sanitarian

Health Department
Identification Number

SD-93-655

Schematic drawing of sewage disposal system and topographic features.

PAGE 2 OF 2

Show the lot lines of the building lot and building site, sketch of property showing any topographic features which may impact on the design of the system, all existing and/or proposed structures including sewage disposal systems and wells within 100 feet of sewage disposal system and reserve area. The schematic drawing of the sewage disposal system shall show sewer lines, pretreatment unit, pump station, conveyance system, and subsurface soil absorption system, reserve area, etc. When a nonpublic drinking water supply is to be located on the same lot show all sources of pollution within 100 feet.

1 BR EQUIV. 1500 GA

SEWAGE DISPOSAL SYSTEM WELL

LOCAL FARM LANDFILL

The information required above has been drawn on the attached copy of the sketch submitted with the application. Attach additional sheets as necessary to illustrate the design.

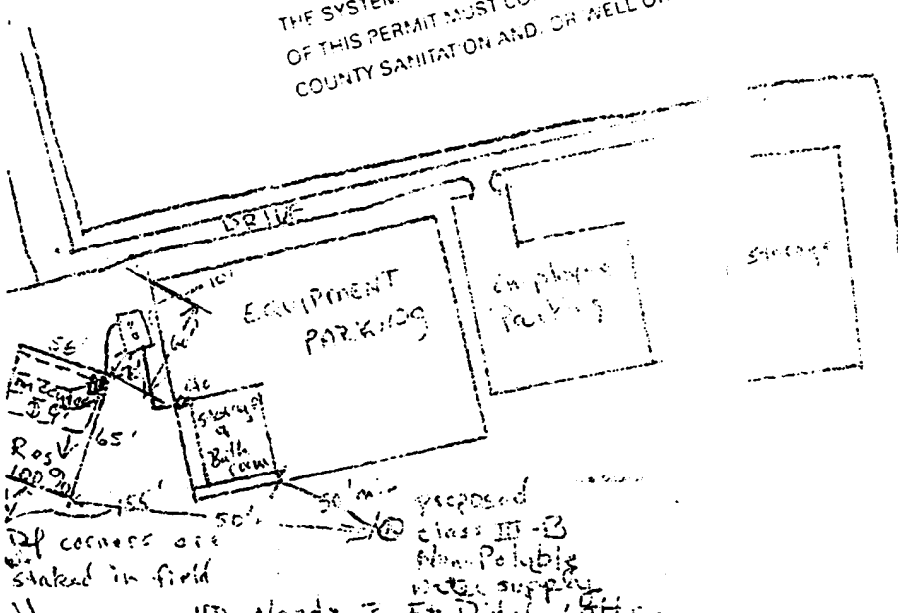
SEWAGE SYSTEM IS FOR
EQUIPMENT WASH-DOWN
AND RESTROOM FACILITIES
ONLY. WATERLESS HAND-CLEANERS
AND BOTTLED DRINKING
WATER REQUIRED.

LANDFILL
WELL

THE SYSTEM TO BE INSTALLED BY THE AUTHORITY
OF THIS PERMIT MUST CONFORM TO THE FALCONER
COUNTY SANITATION AND OR WELL ORDINANCES.

- SEWAGE PERMIT REQUIREMENTS
- Sewerage not to solids.
 - Design of building facilities water-... with approved drainfield location.
 - Designed for maximum plumbing 1/80 NO... (100+)
 - Pipes are 4" (4.56) lines, IN CONTINUOUS, in 3" pipe branches, on 9' centers.
 - Inside branches 48" dia.
 - Unventilated header pipe - cross-vented.
 - Header and main pipes 24" into gravel.
 - Use single size gravel 0.5" to 1.5" dia.
 - The system to be used in drainfield system.
 - Current near surface away from drainfield.
 - No trees within 10' of system.
 - Use low water every 2 - 3 years.

- WELL PERMIT REQUIREMENTS
- Wells to be installed with 50-foot away from... (residential, commercial, institutional and...)
 - Wells to be installed to be witnessed by... (professional seal, construction...)
 - Wells to be used for equipment cleaning... (water flushing only).



Proposed class III-B Non-Polybig pipe supply
HD Needs 3-Ft Ditch bottom

The sewage disposal system is to be constructed as specified by the permit or attached plans and specifications .

This sewage disposal system construction permit is null and void if (a) conditions are changed from those shown on the application (b) conditions are changed from those shown on the construction permit.

No part of any installation shall be covered or used until inspected, corrections made if necessary, and approved, by the local health department or unless expressly authorized by the local health-dept. Any part of any installation which has been covered prior to approval shall be uncovered, if necessary, upon the direction of the Department.

Date: 12/17/93 Issued by: [Signature]

Date: 12/17/93 Reviewed by: [Signature]

This Construction Permit Valid until 12/31/94

Supervisory Sanitarian

If FHA or VA financing

Reviewed by Date _____ Date _____

Supervisory Sanitarian

Regional Sanitarian

Update – ES Projects

Landfill Gas

- SCS Engineers (proposal submitted for funding)
- Planning (review existing wells & production)
- New flare
- Additional wells
- Leachate recirculation coordination
- Air permit

Leachate Management

- Resource International (proposals being developed)
- Leachate sampling/analysis (annual requirement for treatment plants)
- Generator certification
- Leachate Management Plan (NOV, LF #575)
- Rebuild ponds
- Evaporation demonstration (New Waste Concepts)
- Treatment (Aqualitec, other; RFP?)
- Recirculation/Atomizing

Landfill #149 - NOV

- Joyce Engineering (waiting on Consent Order scope of work)
- Contractor estimate
- Consent Order terms
- Leachate Management Plan

Landfill #149 – Mining v. Closure Evaluation Report

- Draper Aden Associates
- Waiting on fines tests
- Mining – pros/cons; costs
- Closure/Post-Closure – costs

Transfer Construction

- Joyce Engineering
- Goal - January advertisement
- Replacement shed

Item b.

« « 1 » »| Parcel 1 of 1 Go

Back to List (/Results?page=1)

Parcel Detail for PIN 6983-81-0145-000

Street Address: 8499 BINGHAM RD

Legal Description: RESIDUE

Current Assessment Summary

Improvements Value	Land Value	Deferment	Total Taxable Value
\$1,110,400	\$4,645,200	\$0	\$5,755,600

Parcel	Improvements	Land	Transfers
--------	--------------	------	-----------

Owners : FAUQUIER COUNTY BD OF SUPERVISORS

Subdivision :

Map Sheet : 6983.00

Landscape : AVERAGE

Road Type : PAVED

Topography : ON GRADE
ROLLING

Book/Page & Instrument : 869/1863DEDICATION

Ancestors : 6983-61-8156-000 (/Details/6983618156000)

Mailing Address : 40 CULPEPER ST
WARRENTON, VA 20186-3206

Neighborhood :

Neighborhood Group : 0004

Tax District : CEDAR RUN

Class : GOVERNMENT

Acreage : 218.2593

Utilities : WELL WATER
SEPTIC TANK

Zoning : AGRICULTURE DISTRICT
RES, 1 DWELL/AC

Descendents :

View 1 more

Item b.



COMMONWEALTH of VIRGINIA

IN COOPERATION WITH THE
STATE DEPARTMENT OF HEALTH

Fauquier County Health Department

(540) 347-6363

ENVIRONMENTAL HEALTH
320 HOSPITAL DRIVE - SUITE 21
WARRENTON, VIRGINIA 20186

January 23, 2001

Mr. Roger Boswell
Building Official
40 Culpeper St
Warrenton, Va. 20186

RE: Environmental Services Offices - Waste Management - Map No. 6983-81-0145

Dear Mr. Boswell,

This letter is written in regards to a request for permission for the above referenced property to be connected onto an existing well that now serves this property to another building on the property.

This office has no objections to this connection being made.

If you have any questions please feel free to call me at 347-6375.

Sincerely,

John R. Largent
Environmental Health Supervisor

6983-81-0145

Private Well Construction Permit
 Health Department ID Number: SD-12-438

Owner Information		
Fauquier County Landfill 6438 College St Warrenton VA 20187 Phone 422-8840 Fax 422-8841	Phone:	

Location Information			
Subdivision Name:	8499 Bingham Rd	Tax Map:	6983-81-0145
Property Address:	Fauquier Off Rt. 29 left on College Street	GPIN:	
County:	Straight on Bingham Road	Legal Description:	Subdivision Section Block Lot
Directions:			

General Information			
Well Class:	Class IV	Minimum Casing Depth:	20
		Minimum Grout Depth:	20

Comments:

This proposed well is classified "Class IV" (non domestic use). The proposed use is dust supression, for the Construction and Demolition materials processing plant of the Fauquier County Landfill.

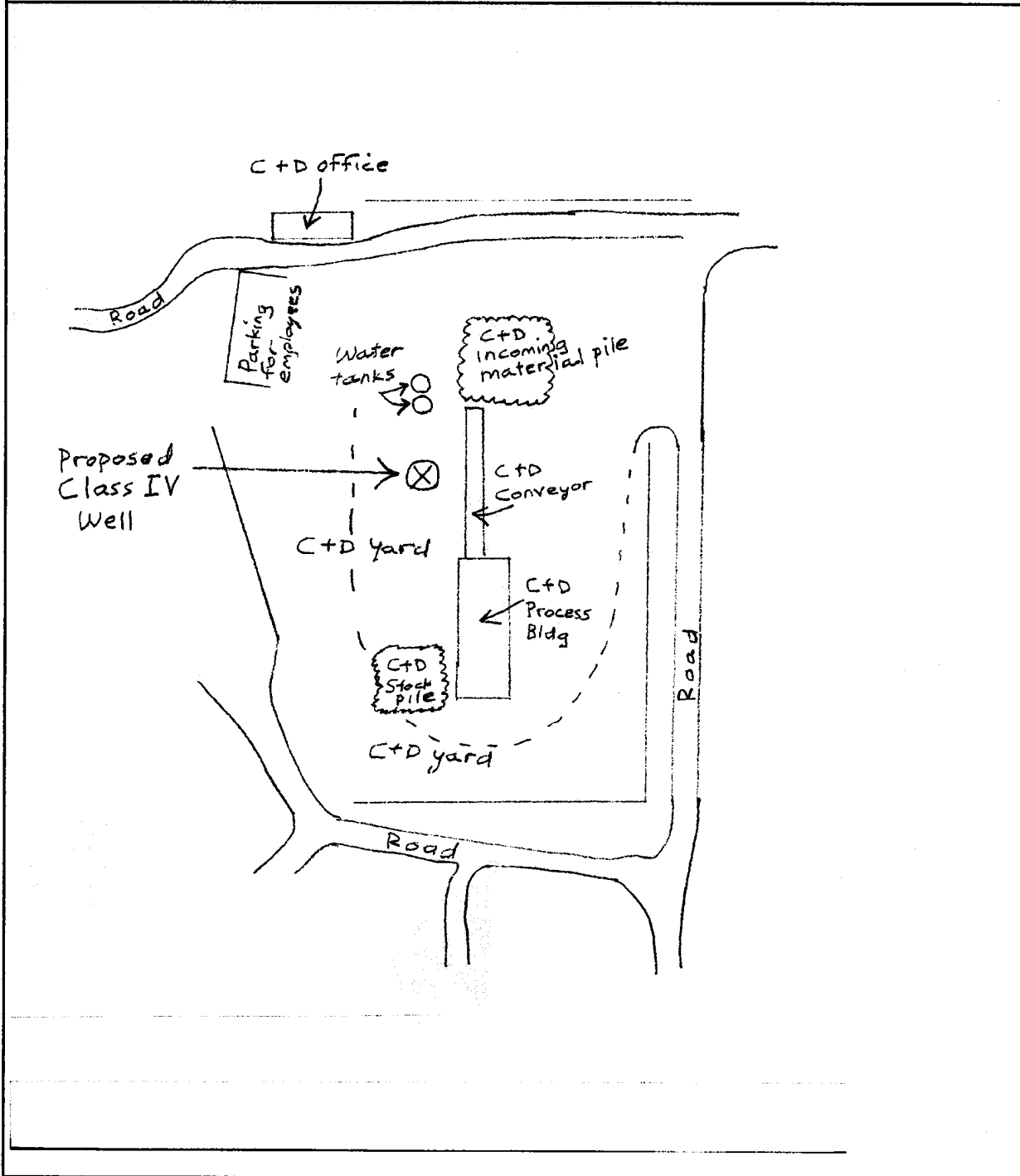
Notice: The Virginia Department of Health may revoke or modify this permit if, at a later date, it finds the conditions that formed the basis for issuing the permit do not substantially comply with the *Private Well Regulations* , 12 VAC 5-630-10 et seq., or if the well would threaten public health or the environment.

Owner Information

Fauquier County Landfill
6438 College St
Warrenton, VA 20187

Phone: (540)
HD ID #: SD-12-438

Construction Drawing



Site Evaluation Conducted By: Don Jeanrenaud

Issued by: Don Jeanrenaud
Environmental Health Specialist

December 10, 2012
Issue Date

December 10, 2013
Expiration Date

**Fauquier County
Department of Environmental Services**

DAVINA BRATCHER
Administrative/Accounting Manager

6438 College Street
Warrenton, VA 20187

Phone: 540-422-8840
Fax: 540-422-8841

E-mail: davina.bratcher@fauquiercounty.gov
Website: www.fauquiercounty.gov



Commonwealth of Virginia

Application for: Sewage System Water Supply

VDH Use Only
Health Department ID# SD-12-438
Due Date _____

Owner FAUQUIER County Landfill

Phone 540-428-6171

Mailing Address 6438 College STREET

~~Phone 540-428-8840~~

WARRENTON Va 20187

Fax 540-422-8841

Agent CONTACT: BUTCH GRIMSKY

Phone 540-428-6171

Mailing Address 6438 College STREET

Phone 540-422-8840 ✓

WARRENTON Va 20187

Fax 540-422-8841

Site Address 8499 BINGHAM ROAD

Email BUTCH.GRIMSKY@FAUQUIERCOUNTY.GOV

WARRENTON Va 20187

Directions to Property: OFF US ROUTE 29 LEFT ON COLLEGE STREET STRAIGHT ON BINGHAM ROAD

Subdivision _____ Section _____ Block _____ Lot _____

Tax Map 698-23-444 Other Property Identification _____ Dimension/Acreage of Property 218.2523
698-81-0145

Sewage System (New Construction)

Construction permits are valid for 18-months. Owners are advised to apply for a construction permit if they intend to build within 18 months of completing this application. Certification letters do not expire, may be recorded in the land records, and transfer with a property sale. For which are you applying? Certification Letter Construction Permit

Sewage System (Existing Construction)

Check all that apply: Repair Modification Expansion Replacement Upgrade

Do you wish to apply for a betterment loan eligibility letter? _____ If yes, there is a \$50.00 fee for determination of eligibility.

Sewage System (New or Existing Construction)

Single Family Home (Number of Bedrooms ___) Multi-Family Dwelling (Total Number of Bedrooms ___)

Other (describe) _____

Basement? Yes/No (circle one). Walk-out Basement? Yes/No (circle one) Fixtures in Basement? Yes/No (circle one).
Conditional permit desired? Yes/No (circle one). If yes, which conditions do you want?

Reduced water flow Limited occupancy Intermittent of seasonal use Seasonal or temporary use not to exceed 1 year

Water Supply

Will the water supply be Public or Private (circle one). Is the water supply Existing or Proposed (circle one).

If proposed, is this a replacement well? Yes/No (circle one). Will the old well be abandoned? Yes/No (circle one). N/A

Will any buildings within 50' of the proposed well be termite treated? Yes/No (circle one).

Note: For sewage systems, a plat of the property may be required and a site sketch is always expected. For water supplies, a plat of the property is not required and a site sketch is always expected. The site sketch should show your property lines, actual and/or proposed buildings and the desired location of your well and/or sewage system. Your property lines, building location and the proposed well and sewage system sites must be clearly marked and sufficiently visible to see the topography.

I give permission to the Virginia Department of Health to enter onto the property during normal business hours for the purpose of processing this application and to perform quality assurance checks of evaluations and designs until an operation permit is approved.

[Signature]
Signature of Owner/Agent

11/29/12
Date

TAG SHEET

6983-81-0145

Item b.

SD- 12-438

TAX MAP ID. ~~0184122000484~~

NAME: Imp. Info. Handoff

Application For: Construction Permit ✓ Will Only
Certification Letter _____

OFFICE SUPPORT

	DATE	INITIALS
Application Received:	<u>11-30-12</u>	<u>dy</u>
Fee: Amount Collected:	<u>—</u>	<u>dy</u>
Receipt Number:	<u>—</u>	
Application Reviewed:	<u>11-30-12</u>	<u>dy</u>
Applicant Given Site Evaluation Info Sheet:	<u>11-30-12</u>	<u>dy</u>
Application Entered into VENIS:	<u>11-30-12</u>	<u>dy</u>
Assigned To EHS: <u>Don</u>	<u>11-30-12</u>	<u>dy</u>

ENVIRONMENTAL SPECIALIST

Site Visit Scheduled:	<u>12-10-12</u>	<u>dy</u>
Applicant Reminded of Site Preparation Requirements:		
Initial Site Visit Made:	<u>12-10-12</u>	<u>dy</u>
Level I AOSE Review		
Application Deactivated:		
Purpose:		
Administrative Denial Issued:		
Revised AOSE Report Received:		
Reactivation:		
Follow Up Visit:		
Follow Up Visit:		
Follow Up Visit:		
Data Entry into VENIS:	<u>12-10-12</u>	<u>dy</u>
Issue/Deny Drafted:	<u>12-10-12</u>	<u>dy</u>
Issue/Deny Reviewed:		
Issue/Deny Countersigned:		
Issue/Deny Sent to Applicant:		

Mark One: Mailed ___ Faxed ___ Picked Up ___

Other Emailed to
Butch. Grimsley
1:55PM

Inspection Requested _____
Inspection Performed _____

Alternative Insp. Fee Collected: _____
Operations Permit Issued: _____

Contractors Name: _____

License Number: _____

Water Supply, existing: (describe) _____

To be installed: _____

Class: _____

Cased: _____

Grouted: _____

Satisfactory: Y N

Building Sewer: _____

Size: _____

Type: _____

(I.D. PVC Schedule 40, or equivalent.)

Fall: _____

(1 1/4" per 10' required)

Satisfactory: Y N

Septic Tank: _____

Capacity: _____ gals.

Manufacturer: _____

Other Notes: _____

Satisfactory: Y N

Inlet-Outlet Structure: _____

Inlet Tee: _____ Outlet Tee: _____

(1" - 2" fall req. in tees)

Effluent Filter: _____

Other Notes: _____

Satisfactory: Y N

Pump and Pump Station: _____

Capacity: _____ gals.

Manufacturer: _____

Pump Size: _____

Other Notes: _____

Satisfactory: Y N

Gravity Mains: _____

Material/Size: _____

Fall in Line: _____

Other Notes: _____

Satisfactory: Y N

Distribution Box: _____

of Boxes: _____ Ports: _____

Other Notes: _____

Satisfactory: Y N

Header Lines: _____

Smooth bore pipe required for header ditches

Material: 4" I.D. 1500 lb. crush strength plastic or equivalent

2' into the absorption trench required; 2" per 100' fall req.

Satisfactory: Y N

Percolation Lines: _____

Other Notes: _____

Material/Size: _____

(slope 2" - 4" per 100' required)

Min Fall: _____ Max Fall: _____

Satisfactory: Y N

Absorption Trenches: _____

Square ft. req: _____ Trench Bottom: _____ in.

Aggregate size/depth: _____

of Trenches: _____ Length: _____

Width of Trench: _____ Center to Center: _____

Sidewall of ditches are consistent with soil study Y N

100% of ditches open on inspection Y N

If No, please describe: _____

Other Notes: _____

Satisfactory: Y N



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Item b.

Fauquier County Real Estate Online

Results Detail ¶ ◀ Parcel: 1 Go ▶ ▶▶ | Parcel 1 of 1 [Back to List](#) [New](#)

PIN: 6983-81-0145-000 **Street Address:** 8499 BINGHAM RD
Legal Description: RESIDUE

Parcel Improvements Land Transfers

Current Assessment Summary

Improvements Value	Land Value	Deferment	Total Taxable Value
\$998,000	\$4,441,200	\$0	\$5,439,200

Owners: FAUQUIER COUNTY BD OF SUPERVISORS **Mailing Address:** 40 CULPEPER ST
 WARRENTON, VA 20186-3206

Subdivision: **Neighborhood:** SECTION 4 SOUTHERN CENTRAL
Map Sheet: 6983.00 **Tax District:** CEDAR RUN
Landscape: AVERAGE **Class:** GOVERNMENT
Road Type: PAVED **Acres:** 218.2593
Topography: ON GRADE **Utilities:** WELL WATER
 ROLLING SEPTIC TANK
Book/Page & Instrument: 692/431 DEED **Zoning:** AGRICULTURE DISTRICT
 709/963 CERTIFICATE OF TAKE RES, 1 DWELL/AC
Ancestors: 6983-61-8156-000 **Descendants:**

Transfer Notes: 1998-47.4176AC FROM 267.1927AC OF FAUQ CO BD OF SUP LVING 219.7751AC THEN 47.4176AC MERGED W/ STATE BD FOR COMM COLLEGES TO MK 50AC DB 789/1738 PL 1744 2001-PLAT RECRD WHEREAS 1.5207 AC PUBLIC STREET USE -DB 869/1863

Land Conservation Easement Summary

Virginia Outdoors Foundation (VOF)	Purchase of Development Rights (PDR)	Nature Conservancy (NC)	Open Space (OS)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Item b.

Fauquier County Real Estate Online

Results Detail [⏪](#) [⏩](#) Parcel: 1 [Go](#) [▶](#) [▶▶](#) | Parcel 1 of 1 [Back to List](#) [New](#)

PIN: 6983-81-0145-000 **Street Address:** 8499 BINGHAM RD
Legal Description: RESIDUE

Parcel Improvements Land Transfers

[⏪](#) [⏩](#) Improvement: 1 [Go](#) [▶](#) [▶▶](#) Improvement 1 of 15

Improvement Value Summary

Total Improvements	Undepreciated Value	Depreciated Value
15	\$615,898	\$998,000

Detail - Improvement 1

Undepreciated Value	Valuation Method	Depreciation Factors			Other Factors	
		Physical %	Functional %	Economic %	Market Adj.	% Complete
\$176,226	COMMERCIAL	69				

Building Use: COMMERCIAL
Condition:
Grade:
Stories: 1.0
Year Built: 1930
Effective Year: 1960
Rooms:
Bedrooms:
Full Baths:
Half Baths:

Structure: 1 STY FRAME DWG
Occupancy:
Heating Type:
Heating Fuel:
Roof Style:
Roof Material:
Foundation:
% Air Conditioned:
Fireplace Opens:
Chimney Stacks:

Style:
Quality: FAIR
Fireplace Types:
Floor Cover:
Interior Walls:
Exterior Wall:

Building Sections	Square Feet	Stories
OFFICE BLDG-FRAME	2688	1.0
ENCLOSED PORCH	45	1.0
OFFICE BLDG-FRAME	444	1.0
CARPORT	444	1.0



COMMONWEALTH of VIRGINIA

IN COOPERATION WITH THE
STATE DEPARTMENT OF HEALTH

Fauquier County Health Department

ENVIRONMENTAL HEALTH
320 HOSPITAL DRIVE - SUITE 21
WARRENTON, VIRGINIA 20186

(540) 347-6363

April 18, 2002

Mr. Roger Boswell
Building Official
40 Culpeper Street
Warrenton, Va. 20186


RE: Portable Toilet Placement - Map Reference: 6983-81-0145

Dear Mr. Boswell:

This letter is written to confirm receipt of written contracts for a Portable Toilet Placement, bottled water and waterless hand cleaner to be used Habitat for Humanity.

This office hereby approves the use of this for the period of time specified by the County of Fauquier for the warehouse.

If this office can be of any further assistance, please call us at 347-6375.

Sincerely,

John R. Largent
Environmental Health Supervisor

*revised
done*

6983-81-0145



COMMONWEALTH of VIRGINIA

IN COOPERATION WITH THE
STATE DEPARTMENT OF HEALTH

Fauquier County Health Department

(540) 347-6363

ENVIRONMENTAL HEALTH

320 HOSPITAL DRIVE - SUITE 21

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Sincerely,

A handwritten signature in cursive script that reads "John R. Largent".

John R. Largent
Environmental Health Supervisor



Habitat for Humanity

...1991 - 2002 over a decade of service to people in need

Item b.

P.O. Box 3189 Warrenton, VA 20188 (540) 341-4952

April 18, 2002

Fauquier County Health Department
Environmental Services
Warrenton Virginia 20186

Re: Portable Toilet Placement

Fauquier Habitat for Humanity is currently leasing a warehouse from the county located behind the Environmental Services Building at the landfill. We have outfitted the warehouse with electrical power for lighting and other utility use under Permit No. S02-13117. We are unable to hook into the nearby septic system due to its limited capacity or provide potable water because of the proximity of the warehouse to the county landfill.

Fauquier Habitat requests permission install bottled water for drinking and to site a portable toilet supplied by Allied Portable Toilet Rentals for the convenience of our volunteers. A copy of the Agreement to provide the portable toilet is attached.

Sincerely,

Jack Flikeid
Executive Director

C:\My Documents\Landfill Warehouse\Warehouse Toilet.doc



PORTABLE TOILET RENTALS

Item b.

1321 N. Delphine Avenue • P.O. Box 280 • Waynesboro, VA 22980
Toll Free (800) 868-8386 • Fax (540) 885-3280

Date: Feb 12, 2002

Fauquier Habitat
P. O. Box 3189
Warrenton, VA 20188

Re: Fauquier Co. Landfill

We are pleased to quote you on your portable toilet requirements for the above referenced project as follows:

Description	Monthly Rental
Standard Polyethylene Portable Toilets w/Large Capacity Holding Tanks	\$ 70.00 /EA
Same as above with Hand Washing Facilities	\$ /EA
Handicap Accessible Toilets	\$ /EA
140 Gallon Capacity Trailer Holding Tank	\$ /EA
250 Gallon Capacity Trailer Holding Tank	\$ /EA
Extra Service on Standard Toilet (in addition to your regular one (1) time weekly service)	\$ EA/Week

NOTES: All units are serviced professionally on a weekly basis. Our prices are subject to Virginia Sales Tax, if applicable. Terms net 30 days. Lead time 2-3 days after receiving order.

It is the responsibility of Allied Portable Toilets to pump, haul away, and dispose of all waste from the portable toilets at an approved waste water treatment facility.

Please call Darby Boyers or Bobby Simmons at 1-800-868-8386 and allow us the opportunity to provide you with the service you deserve.

Very truly yours,

ALLIED READY MIX COMPANY

Darby G. Boyers
Darby G. Boyers

Water Supply and/or Sewage Disposal System Construction Permit

Commonwealth of Virginia
Department of Health
Fauquier County Health Department

Health Department
Identification Number SD-96-386
Map Reference 6983-~~11-727~~ 81-0145

General Information

Water Supply System: New Repair Public FHA VA Case No. _____
Sewage Disposal System: New Repair Expanded Conditional Public
Based on the application for a sewage disposal system construction permit filed in accordance with Section 2.13 E, of the Sewage Handling and Disposal Regulations and/or Section 2.13 of the Private Well Regulations a construction permit is hereby issued to:
Owner County of Fauquier Telephone 347-6820
Address c/o 223 W. Shirley Ave, Warrenton, 20186-3112 For a Type F Sewage Disposal System or Well to be constructed on/at 215 @ Corral farm to site straight ahead.
Subdivision _____ Section/Block _____ Lot _____ Actual or estimated water use 300 gpd equiv.

DESIGN	NOTE: SEWAGE DISPOSAL SYSTEM INSPECTION RESULTS
Water supply, existing: (describe) <u>3c</u> <u>see notes pg 2</u>	Water supply location: Satisfactory yes <input type="checkbox"/> no <input type="checkbox"/> comments _____
To be installed: class <u>N/A</u> cased _____ grouted _____	Completion Report G. W. 2 Received: yes <input type="checkbox"/> no <input type="checkbox"/> not applicable <input type="checkbox"/>
Building sewer: <u>c/o at new Bldg location</u> <u>4"</u> I.D. PVC Schedule 40, or equivalent. Slope 1.25" per 10' (minimum). <input checked="" type="checkbox"/> Other <u>smooth pipe to DB</u>	Building sewer: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Septic tank: Capacity <u>1125</u> gals. (minimum). <input checked="" type="checkbox"/> Other <u>To match ex. S.T.</u>	Pretreatment unit: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Inlet-outlet structure: <u>8" in 18" out</u> PVC Schedule 40, 4" tees or equivalent. <input checked="" type="checkbox"/> Other <u>Stub T's 1" Below Lid</u>	Inlet-outlet structure: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Pump and pump station: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> describe and show design. if yes: _____	Pump & pump station: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Gravity mains: <u>6"</u> or larger I.D., minimum 6" fall per 100', 1500 lb. crush strength or equivalent. <input checked="" type="checkbox"/> Other <u>New c/o at junction w/ Ex. Conv. Line</u>	Conveyance method: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Distribution box: Precast concrete with _____ ports. <input type="checkbox"/> Other _____	Distribution box: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Header lines: Material: 4" I.D. 1500 lb. crush strength plastic or equivalent from distribution box to 2" into absorption trench. Slope 2" minimum. <input type="checkbox"/> Other _____	Header lines: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Percolation lines: Gravity 4" plastic 1000 lb. per foot bearing load or equivalent, slope 2" 4" (min. max.) per 100'. <input type="checkbox"/> Other _____	Percolation lines: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Absorption trenches: Square ft. required _____; depth from ground surface to bottom of trench _____; aggregate size _____; Trench bottom slope _____; center to center spacing _____; trench width _____; Depth of aggregate _____; Trench length _____; Number of trenches _____	Absorption trenches: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Date _____ Inspected and approved by: _____ Sanitarian	

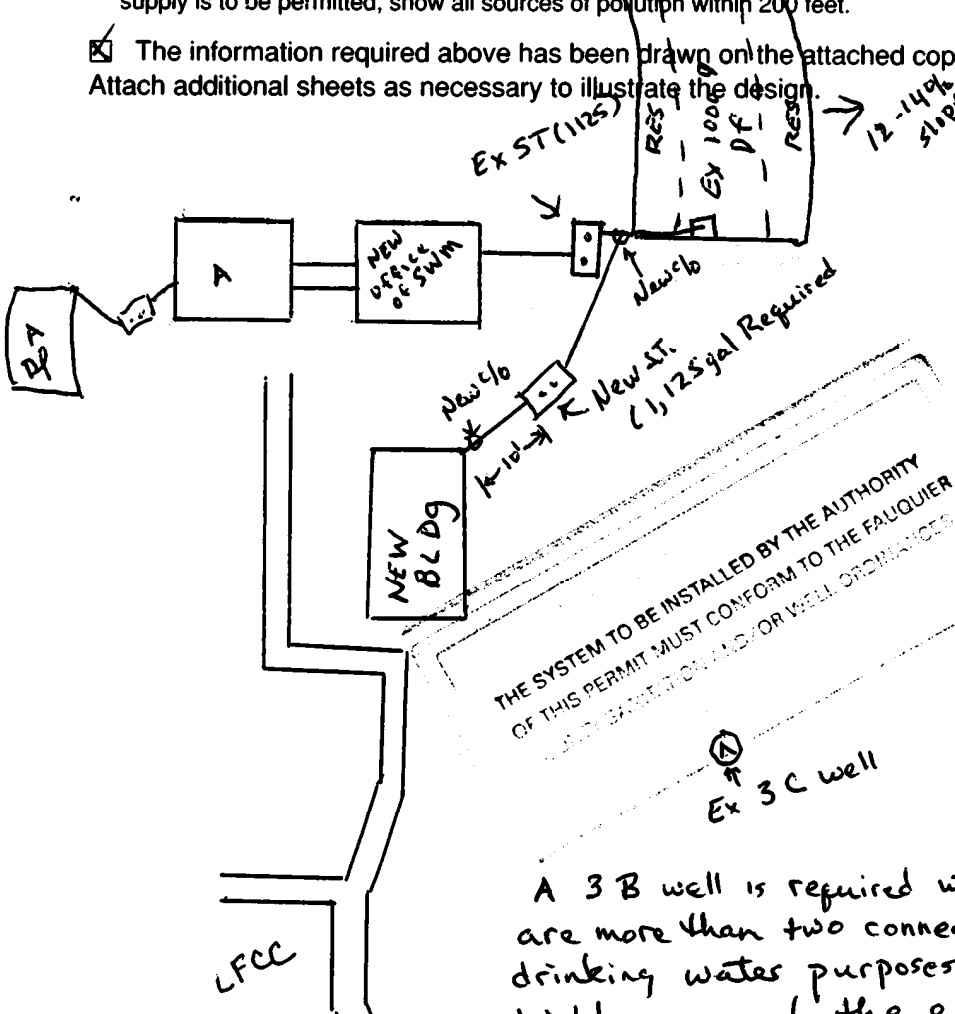
6983-~~11-727~~ 81-0145
6983-81-0145

Item b.

Schematic drawing of sewage disposal and/or water supply system and topographic features.

Show the lot lines of the building site, sketch of property showing any topographic features which may impact on the design of the well or sewage disposal system, including existing and/or proposed structures and sewage disposal systems and wells within 200 feet. The schematic drawing of the well site or area and/or sewage disposal system shall show sewer lines, pretreatment unit, pump station, conveyance system, and subsurface soil absorption system, reserve area, etc. When a nonpublic drinking water supply is to be permitted, show all sources of pollution within 200 feet.

The information required above has been drawn on the attached copy of the sketch submitted with the application. Attach additional sheets as necessary to illustrate the design.



Not to scale

PIN 6983-71-7222
 "Corral Farm - Co of Fauquier"
 Sewage expansion only
 maximum of 15 person occupying
 (20 gal pd x 15 = 300 gal pd =
 2 Bedroom equivalency)

THE SYSTEM TO BE INSTALLED BY THE AUTHORITY
 OF THIS PERMIT MUST CONFORM TO THE FAUQUIER
 COUNTY SANITATION AND/OR WELL ORDINANCES

L FCC

A 3 B well is required when there are more than two connections (for drinking water purposes), H.D. highly recommends the existing well not be used for that purpose due to proximity of new landfill. Suggest bottled water for drinking and waterless hand cleaner. Well water may be used for laboratory flushing.

This sewage disposal system and/or water supply is to be constructed as specified by the permit or attached plans and specifications.

This sewage disposal system and/or well construction permit is null and void if (a) conditions are changed from those shown on the application (b) conditions are changed from those shown on the construction permit.

No part of any installation shall be covered or used until inspected, corrections made if necessary, and approved, by the local health department or unless expressly authorized by the local health dept. Any part of any installation which has been covered prior to approval shall be uncovered, if necessary, upon the direction of the Department.

Date: 7/15/96 Issued by: [Signature]
 Date: 7/18/96 Reviewed by: John R. Largent
 Sanitarian EHS-SR4A
 Supervisory Sanitarian

This Construction
 Permit Valid until
7/15/97

If FHA or VA financing

Reviewed by Date _____ Date _____
 C.H.S. 202B Supervisory Sanitarian Regional Sanitarian

299482
Pd. 125.00 (cash)
7/10/96 *[Signature]*

Commonwealth of Virginia
Application for a Sewage Disposal and/or Water Supply Permit

Health Department ID SD-96-386

Item b.	
Phone # <u>341-0364</u>	Phone # <u>397-6395</u>
Fax # <u>341-0364</u>	Fax # <u>397-6395</u>
State Fax No. <u>7671</u>	State Fax No. <u>7671</u>
Name <u>M. Billy Jenkins</u>	Name <u>F.C.H.D.</u>
Address <u>40 Culpeper Street</u>	Address <u>223 W. Shirley Avenue</u>
City <u>Fauquier</u>	City <u>Stafford</u>
County <u>Fauquier</u>	County <u>Stafford</u>
Phone # <u>347-6820</u>	Phone # <u>347-6825</u>
Fax # <u>347-6825</u>	Fax # <u>347-6825</u>

To Be Completed By The Applicant

Type of sewage system: New Repair Expanded Conditional
 PHA/VA yes no Case No. _____

Owner County of Fauquier Address 40 Culpeper Street

Agent Billy Jenkins, Address 223 W. Shirley Phone 347-6820
Operations & Services Avenue 223 W. Shirley Phone 347-6825

Directions of Property Corral Farm large house at end of College Street

Subdivision NA Section NA Block NA Lot NA

Other Property Identification Detail drawings attached

Dimension/size of Lot/Property 6983-71-7277

Other Application Information

I. Building/facility New Existing
 Intermittent Use Yes No If yes, describe _____

II. Residential Use Yes No
 Termite Treatment Yes No
 Single Family Multi-family
 (Number of Bedrooms _____) (Number of Units _____)

Basement Yes No
 Fixtures in Basement Yes No

III. Commerical Use Yes No Describe: Office
 Commerical/Wastewater Yes No
 Number of Patrons _____
 Number of Employees 5

If yes, give volumes and describe _____

IV. Water Supply: Public New Existing
 Private New Existing
 Describe: _____

V. Proposed Sewage Disposal Method:
 Onsite Sewage Disposal System: Septic Tank Drainfield LPD Mound Other
 Public Sewerage System

Attach a site plan (rough sketch) showing dimensions of property, proposed and/or existing structures and driveways, underground utilities, adjacent soil absorption system, bodies of water, drainage ways, and wells and springs within 200 feet radius of the center of the proposed well or drainfield. Distances may be paced or estimated.

The property lines and building location are clearly marked and the property is sufficiently visible to see the topography. I give permission to the Department to enter onto the property described for the purpose of processing this application.

[Signature] Supervisor, 7-9-96
 Signature of Owner/Agent Date

:HS 200

0SD 96 386

Sewage Disposal System Construction Permit

Commonwealth of Virginia
Department of Health



Health Department
Identification Number
Map Reference

SD-93-141

Fauquier Co Health Department

82/53

General Information

New Repair Expanded Conditional FHA VA Case No. _____
 Based on the application for a sewage disposal system construction permit filed in accordance with Section 3.13.01, a construction permit is hereby issued to:
 Owner B. G. Sowder, Trustee Telephone 347-1097
 Address Rt. 3 Box 1320, Gainesville, Va. 22065
 For a Type I Sewage disposal system which is to be constructed on/at 295 @ at LFCC
to Dwelling 15 Rear of Property
 Subdivision _____ Section/Block _____ Lot _____
 Actual or estimated water use ~~450 gal 2 BR equivalent~~ 2000 gal 2 BR 300 gal pd

DESIGN

NOTE: INSPECTION RESULTS

Water supply, existing: (describe) TWC

Water supply location: Satisfactory yes no comments _____

To be installed: class N/A
cased grouted

G. W. 2 Received: yes no not applicable

Building sewer:
EXISTING I.D. PVC 40, or equivalent.
Slope 1.25" per 10' (minimum).
 Other Ferroc sch 40 pvc (4") to exist bldg sewer

Building sewer: Satisfactory SCH 40 yes no comments Ferroc coupling to terra cotta sewer

Septic tank: Capacity 900 gals. (minimum).
 Other No septic tank disposal

Pretreatment unit: Satisfactory TAPP 1125XR yes no comments C/O at inlet

Inlet-outlet structure: 8" in 18" out
PVC 40, 4" tees or equivalent.
 Other Stub 15 1" Below LID

Inlet-outlet structure: Satisfactory good pipe yes no comments 41" 43 1/2"

Pump and pump station:
No Yes describe and show design.
if yes: _____

Pump & pump station: Satisfactory N/A yes no comments _____

Gravity mains: 6" or larger I.D., minimum 6" fall per 100', 1500 lb. crush strength or equivalent.
 Other Sch 40 required

Conveyance method: Satisfactory SCH 40. yes no comments _____

Distribution box:
Precast concrete with 6+ ports.
 Other bedded on 4" concrete pad

Distribution box: Satisfactory bedded on concrete pad yes no comments dial-a-flow, hydraulic cement

Header lines:
Material: 4" I.D. 1500 lb. crush strength plastic or equivalent from distribution box to 2' into absorption trench.
Slope 2" minimum.
 Other _____

Header lines: Satisfactory SCH 40 ! yes no comments _____

Percolation lines:
Gravity 4" plastic 1000 lb. per foot bearing load or equivalent, slope 2" 4" (min. max.) per 100'.
 Other can w/ untreated paper

Percolation lines: Satisfactory paper cover yes no comments _____

Absorption trenches:
Square ft. required 1000; depth from ground surface to bottom of trench 30"; aggregate size 1/2".
Trench bottom slope 2 to 4" per 100'; center to center spacing 7'; trench width 2'.
Depth of aggregate 13"; Trench length 100'; Number of trenches 5

Absorption trenches: Satisfactory depth good / soil good yes no comments _____

Date 4-13-93 Inspected and approved by: [Signature] + TB
Sanitarian

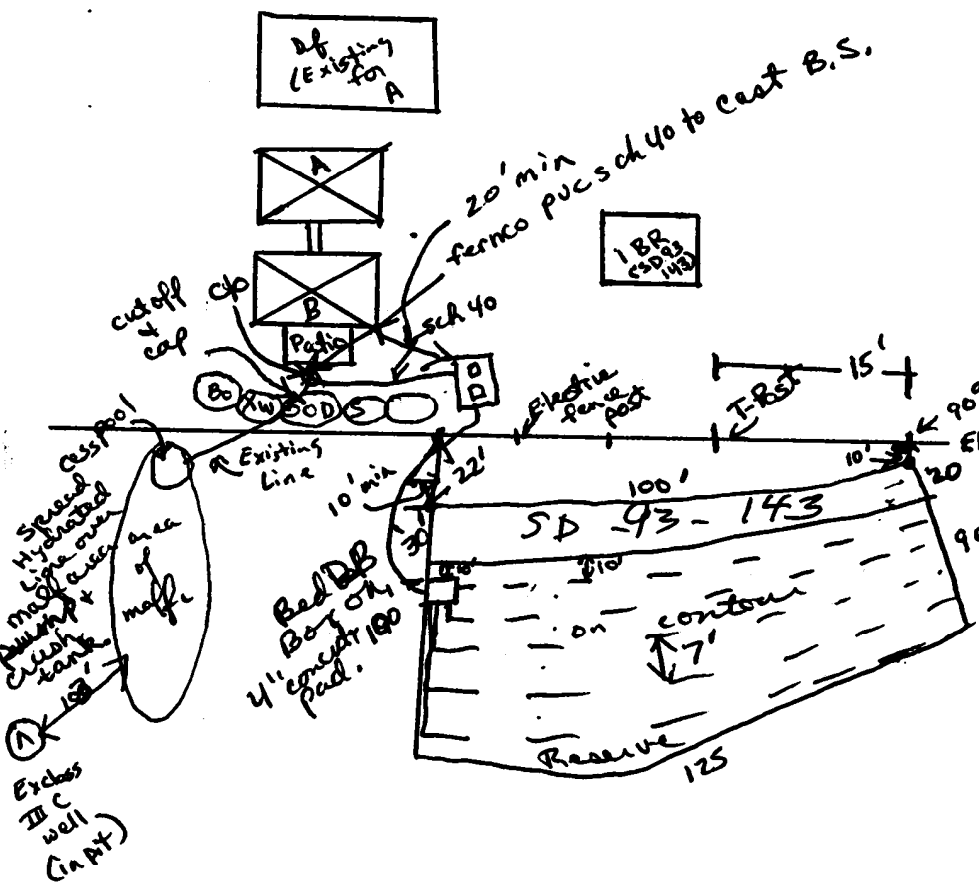
S. 82/53

Schematic drawing of sewage disposal system and topographic features.

Show the lot lines of the building lot and building site, sketch of property showing any topographic features which may impact on the design of the system, all existing and/or proposed structures including sewage disposal systems and wells within 100 feet of sewage disposal system and reserve area. The schematic drawing of the sewage disposal system shall show sewer lines, pretreatment unit, pump station, conveyance system, and subsurface soil absorption system, reserve area, etc. When a nonpublic drinking water supply is to be located on the same lot show all sources of pollution within 100 feet.

Septic Expansion Only *Leak Closing*

The information required above has been drawn on the attached copy of the sketch submitted with the application. Attach additional sheets as necessary to illustrate the design.



- * Drawing not to scale.
- * Permit void if building location interferes with approved drainfield location.
- * Designed for basement plumbing? YES NO
- * Drainfield to be 100+ feet from Class IIIC wells and 50 feet from all Class IIIA&B wells.
- * Install 5-100 lines, ON CONTOUR, in 2'-wide trenches, on 7' centers.
- * Install trenches 30" deep.
- * Smooth-walled header pipes recommended.
- * Extend header pipes 24" into gravel.
- * Use single size gravel 0.5" to 1.5" diam.
- * No parking or driving on drainfield system
- * Divert roof drains away from drainfield.
- * No trees within 10' of system.
- * Pump septic tank every 3 - 5 years.

WELL REQUIREMENTS

- * Install Class ___ well ___' + away from drainfield, reserve, treated foundation, and all sources of contamination.
- * All well grouts to be witnessed by environmental health specialist.
- * Water to be tested for potability.

* See plat for reserve

The sewage disposal system is to be constructed as specified by the permit or attached plans and specifications .

This sewage disposal system construction permit is null and void if (a) conditions are changed from those shown on the application (b) conditions are changed from those shown on the construction permit.

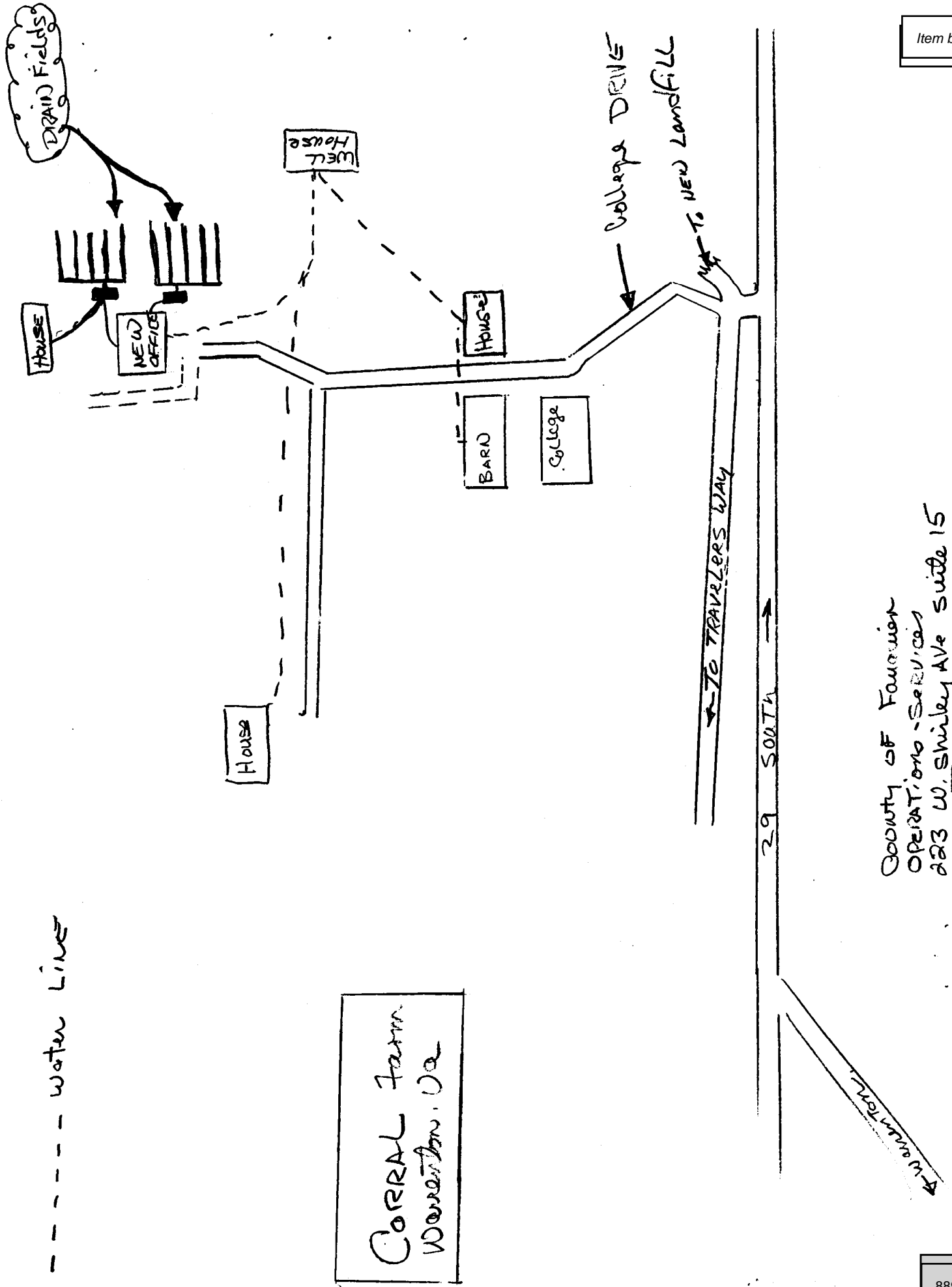
No part of any installation shall be covered or used until inspected, corrections made if necessary, and approved, by the local health department or unless expressly authorized by the local health dept. Any part of any installation which has been covered prior to approval shall be uncovered, if necessary, upon the direction of the Department.

Date: 4/7/93 Issued by: [Signature]
 Date: 4/7/93 Reviewed by: [Signature]
 Supervisory Sanitarian

This Construction Permit Valid until 4/7/94

If FHA or VA financing

Reviewed by Date _____ Date _____



----- water line

CORRAL Farm
Warrenton, Va

County of Fauquier
Operations Services
223 W. Shirley Ave Suite 15
Warrenton, VA 22186
Phone 347-6880 FAX 341-0364

CUSTODIAL SYSTEM TOTALS REPORT
07/01/95 thru 06/14/96

Item b.

System Name	Total Cost
FAUQUIER COUNTY SCHOOLS	88,507.75
FAUQUIER COUNTY	7,385.16
	95,892.91

Completion Statement

Commonwealth of Virginia
State Department of Health

Item E.

Health Department
Identification Number

SD 93-143

Fauquier Co. Health Department

Name of Company/Corporation/Individual: Jim Eicher

Address: Rt 1 Box 307 Bealeton, VA, Telephone: 347-2274

Owner's Name B. Sowder / trustee

Owner's Address Rt 3, Box 1320, Gainesville, VA

Location of Installation: Lot _____ Block _____

Section: 82/53 ^{lots} 37+38 Subdivision: Corral Farm / Lee's Crossing

Other: _____

I hereby certify that the onsite sewage disposal system has been installed and completed in accordance with the construction permit issued (date) 4-7-93 and is in compliance with Part D of the Sewage Handling and Disposal Regulations and when appropriate the plans and specifications for the project.

4-13-93

Date

Signature and Title

James L. Eicher

622

Soil Evaluation Form

Commonwealth of Virginia
Department of Health

Health Department
Identification Number SD 93 141
Tax Map Number sub d

General Information

Date 4/6/93 Fauquier Co. Health Department
Applicant _____ Telephone No. _____
Address _____
Owner _____ Address _____
Location _____
Subdivision Subd - Lee's Crossing Block/Section II Lot _____

Soil Information Summary

- 1. Position in landscape satisfactory Yes No Describe sideslope (southern)
- 2. Slope 12-14 %
- 3. Depth to rock/impervious strata Max. _____ Min. _____ None
- 4. Depth to seasonal water table (gray mottling or gray color) No Yes _____ inches
- 5. Free water present No Yes _____ range in inches
- 6. Soil percolation rate estimated Yes No Texture group I II III IV
Estimated rate 60 min/inch
- 7. Percolation test performed Yes No Number of percolation test holes _____
Depth of percolation test holes _____
Average percolation rate _____

Name and title of evaluator: C A Jackson JR EHS 05194
Signature: [Signature]

Department Use

- Site Approved: Drainfield to be placed at 30" depth at site designated on permit.
- Site Disapproved:

Reasons for rejection:

- 1. Position in landscape subject to flooding or periodic saturation.
- 2. Insufficient depth of suitable soil over hard rock.
- 3. Insufficient depth of suitable soil to seasonal water table.
- 4. Rates of absorption too slow.
- 5. Insufficient area of acceptable soil for required drainfield, and/or Reserve Area.
- 6. Proposed system too close to well.
- 7. Other Specify _____

□

79" - 83"

88 1/2" - 94"

102" - 107"

115" - 120"

78" - 81"

Application for a Sewage Disposal System Construction P Item b.

Commonwealth of Virginia
Department of Health

For Department Use Only

Health Department
Identification Number SD-93-141
Map Reference Subd.
Date Received 4-6-93

Jeeg Co Health Department ROK 491

To Be Completed By The Applicant

Type sewage system: New Repair Expanded Conditional
FHA/VA yes no

Owner R.G. Sowden Trustee Address RT 3, Box 1320 Phone 347-1097
Gainesville VA
22065

Agent Same Address _____ Phone _____

Directions to Property 29 S. right on College road go
straight back to Dupont, take right driveway to white
house, site on right of house.
Subdivision Cornal Farm Section _____ Block _____ Lot _____

Other Property Identification Lees Cring 82/53

Dimensions/size of Lot/Property 235 acres (old lots 37 and 38)

Other Application Information

I. Building/facility New Existing
Intermittent Use Yes No If yes, describe: old system, need
new lines and Distribution system

II. Residential Use Yes No
Termite Treatment Yes No
 Single Family Multifamily Number of Units 1 Number of Bedrooms 2
Basement Yes No
Fixtures in Basement Yes No

III. Commercial Use Yes No Describe: Farm residence and 1/2 school
College.
Commercial/Wastewater Yes No Number of Patrons _____ Number of Employees _____

IV. Water Supply: Public New Describe: Well
 Private Existing

V. Proposed Installation: Septic tank and drainfield Other repair
If other, describe add new lines and Distribution for possible
another farm

SITE PLAN Attach a site plan (rough sketch) showing dimensions of property, proposed and/or existing structures and driveways, underground utilities, adjacent soil absorption systems, bodies of water, drainage ways, and wells and springs within 200 feet radius of the center of the proposed building or drainfield. Distances may be paced or estimated.

The property lines and building location are clearly marked and the property is sufficiently visible to see the topography. I give permission to the Department to enter onto the property described for the purpose of processing this application.

R. S. Sowden Signature of owner/agent 4/6/93 Date 895

OSD 93 141

ROUTE SHEET

PERMIT I.D. NO. SD-93-141

Tag Sheet

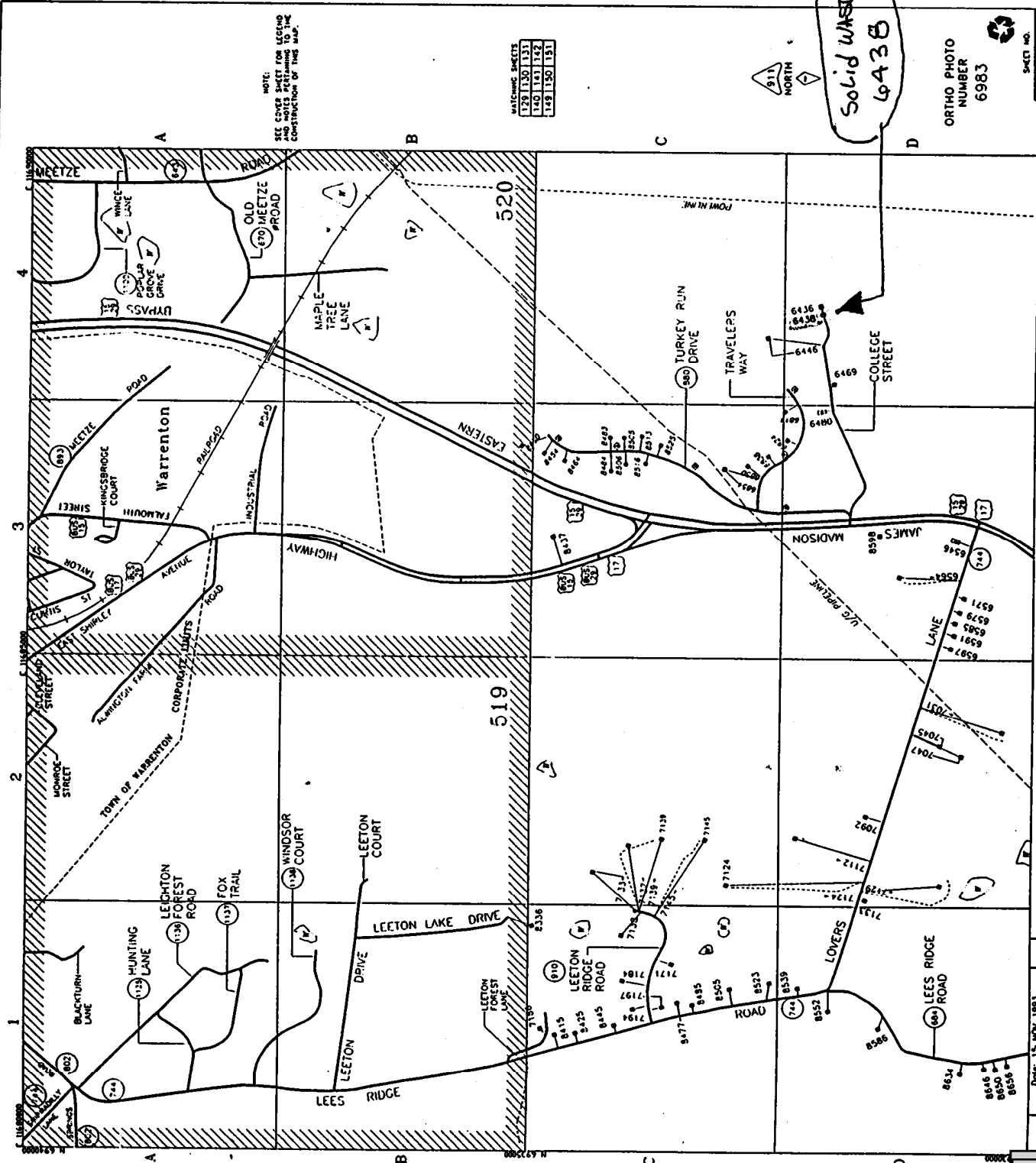
	<u>Initials</u>	<u>Date</u>
APPLICATION RECEIVED:	<u>PK</u>	<u>4-6-93</u>
APPLICATION REVIEWED:	<u>PK</u>	<u>4-6-93</u>
FEE DETERMINATION:	<u>PK</u>	<u>4-6-93</u>
ASSIGNED TO:	<u>CAJ</u>	<u>4-6-93</u>
SITE VISIT SCHEDULED:	<u>CAJ</u>	<u>4/6/93</u>
SITE VISIT MADE:	<u>CAJ</u>	<u>4/6/93</u>
FOLLOW-UP VISIT:		
ISSUE/DENY DRAFTED:	<u>CAJ</u>	<u>4/7/93</u>
ISSUE/DENY REVIEWED:	<u>CAJ</u>	<u>4/7/93</u>
ISSUE/DENY COUNTERSIGNED:	<u>CAJ</u>	<u>4/7/93</u>
ISSUE/DENY - MAILED/PICKED UP	<u>CAJ</u>	<u>4/8/93</u>

6-25-1991

911 ADDRESS

6438
College Street

Item b.



NOTE:
SEE COVER SHEET FOR LEGEND
AND NOTES PERTAINING TO THE
CONSTRUCTION OF THIS MAP.

WATERING SHEETS
128 1130 1131
129 1130 1131
130 1130 1131
131 1130 1131



Solid Waste
6438

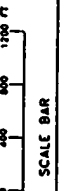
ORTHO PHOTO
NUMBER
6983



SHEET NO.

141

9-1-1 PLANNING MAP OF
FAUQUIER COUNTY, VIRGINIA



Date: 15 NOV 1993
MSAC Data Consultants, Inc.
Orange, Virginia 22960

897

Water Supply and/or Sewage Disposal System Construction Permit

Commonwealth of Virginia
 Department of Health
 FAUQUIER CO. Health Department

Health Department
 Identification Number SD-96-513
 Map Reference 6984-23-9484

General Information

Water Supply System: New Repair _____ Public _____ FHA _____ VA _____ Case No. _____
 Sewage Disposal System: New Repair _____ Expanded _____ Conditional _____ Public _____
 Based on the application for a sewage disposal system construction permit filed in accordance with Section 2.13 E, of the Sewage Handling and Disposal Regulations and/or Section 2.13 of the Private Well Regulations a construction permit is hereby issued to:
 Owner FAUQ. DEPT. SOLID WASTE MANAGEMENT Telephone 347-6812
 Address 78 W. LEE ST. WARRENTON, VA. For a Type I Sewage Disposal System or Well to be constructed on/at Corral Farm Landfill
 Subdivision CORRAL FARM LANDFILL Section/Block _____ Lot 664-23-9484 Actual or estimated water use 150 gpcd / 1BR equip.

DESIGN

NOTE: SEWAGE DISPOSAL SYSTEM INSPECTION RESULTS

Water supply, existing: (describe) N/A
spec to be witnessed by HP
 To be installed: class 3B this will be a non-potable
synthetic polypropylene
 cased SD in grouted 50mm

Water supply location: Satisfactory yes no comments _____
 Completion Report
 G. W. 2 Received: yes no not applicable

Building sewer: 4" FNPT
4" I.D. PVC Schedule 40, or equivalent.
 Slope 1.25" per 10' (minimum).
 Other Smooth pipe to DB

Building sewer: yes no comments _____
 Satisfactory

Septic tank: Capacity 750 gals. (minimum).
 Other No garbage Disposals

Pretreatment unit: yes no comments _____
 Satisfactory Temp 1050 - less than 15' from surface

Inlet-outlet structure: 8" in 18" out
 PVC Schedule 40, 4" tees or equivalent
 Other Stub 1 1/2" below lids

Inlet-outlet structure: yes no comments _____
 Satisfactory In 8.68 Out 8'8"

Pump and pump station:
 No Yes describe and show design.
 if yes: _____

Pump & pump station: yes no comments _____
 Satisfactory

Gravity mains 4" or larger I.D., minimum 6" fall per 100', 1500 lb. crush strength or equivalent.
 Other _____

Conveyance method: yes no comments _____
 Satisfactory Schedule 40

Distribution box:
 Precast concrete with 4 ports.
 Other Red virgin earth

Distribution box: yes no comments _____
 Satisfactory 4 extra ports

Header lines:
 Material: 4" I.D. 1500 lb. crush strength plastic or equivalent from distribution box to 2' into absorption trench. Slope 2" minimum.
 Other _____

Header lines: yes no comments _____
 Satisfactory

Percolation lines:
 Gravity 4" plastic 1000 lb. per foot bearing load or equivalent, slope 2" 4" (min. max.) per 100'.
 Other cover w/ approved material

Percolation lines: yes no comments _____
 Satisfactory 10.85/10.95/10.85/10.85/10.8
11.05/11.15/11.04/11.1.8/11.2

Absorption trenches:
 Square ft. required 650; depth from ground surface to bottom of trench 45"; aggregate size 1/2 to 1 1/2 SA
 Trench bottom slope 2-4" per 100';
 center to center spacing 6'; trench width 2';
 Depth of aggregate 13";
 Trench length 45; Number of trenches 5

Absorption trenches: yes no comments _____
 Satisfactory liner fabric

Date 1/31/97 Inspected and approved by:
Heidi Ralston
 Sanitarian

0904-23-9484

Schematic drawing of sewage disposal and/or water supply system and topographic features.

Show the lot lines of the building site, sketch of property showing any topographic features which may impact on the design of the well or sewage disposal system, including existing and/or proposed structures and sewage disposal systems and wells within 200 feet. The schematic drawing of the well site or area and/or sewage disposal system shall show sewer lines, pretreatment unit, pump station, conveyance system, and subsurface soil absorption system, reserve area, etc. When a nonpublic drinking water supply is to be permitted, show all sources of pollution within 200 feet.

The information required above has been drawn on the attached copy of the sketch submitted with the application. Attach additional sheets as necessary to illustrate the design.

PIN 6984-23-9484
 prop 1 BR equivalent 1150 sq ft
 Warrenton Service District (100% Rese.)

SEWAGE PERMIT REQUIREMENTS

- * Drawing not to scale.
- * Permit void if building location interferes with approved drainfield location.
- * Designed for basement plumbing YES **(NO)**
- * Drainfield to be 100+ feet from all Class IIIA&B wells,
- * Install 5 - 65 feet lines, ON CONTOUR, in 2 feet-wide trenches on 6 feet centers.
- * Trench bottoms installed 45" inches deep.
- * Smooth-walled header pipes recommended.
- * Extend header pipes 24 inches into gravel.
- * Use single size gravel 0.5 to 1.5 inch diameter.
- * No parking or driving on drainfield system.
- * No trees within 10 feet of system.

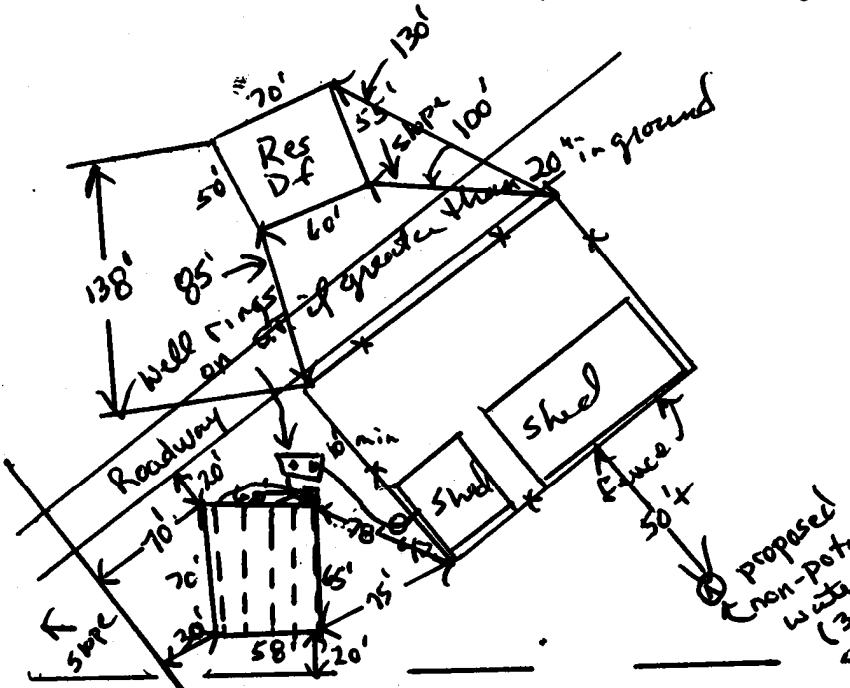
Pump septic tank and distribution box every 3 - 5 years.

NO WET WEATHER CONSTRUCTION

Note: well location sited by private engineer, not Health Dept.

WELL REQUIREMENTS

- * Install Class 3B well 50 + feet away from drainfield, reserve, treated foundation and all sources of contamination.
- * All well grouts to be witnessed by environmental health specialist.
- * Water to be tested for potability.



proposed non-potable water well (3B)

Power Easement

THE SYSTEM TO BE INSTALLED BY THE AUTHORITY OF THIS PERMIT MUST CONFORM TO THE FAUQUIER COUNTY SANITATION AND/OR WELL ORDINANCES

Note: No additional cuts allowed in D of area

This sewage disposal system and/or water supply is to be constructed as specified by the permit or attached plans and specifications.

This sewage disposal system and/or well construction permit is null and void if (a) conditions are changed from those shown on the application (b) conditions are changed from those shown on the construction permit.

No part of any installation shall be covered or used until inspected, corrections made if necessary, and approved, by the local health department or unless expressly authorized by the local health dept. Any part of any installation which has been covered prior to approval shall be uncovered, if necessary, upon the direction of the Department.

Date: 1/17/97 Issued by: drilled. [Signature]
 Date: 1/17/97 Reviewed by: [Signature]
 Sanitarian EHSRIA
 Supervisor Sanitarian

This Construction Permit Valid until 1/17/98

If FHA or VA financing

Reviewed by Date _____ Date _____
 Supervisory Sanitarian Regional Sanitarian



COMMONWEALTH of VIRGINIA

IN COOPERATION WITH THE
STATE DEPARTMENT OF HEALTH

Fauquier County Health Department

ENVIRONMENTAL HEALTH
320 HOSPITAL DRIVE - SUITE 21
WARRENTON, VIRGINIA 22186

(703) 347-6363

SEWAGE DISPOSAL SYSTEM OPERATION PERMIT

Commonwealth of Virginia
Department of Health

Health Department ID # SD-96-513
Fauquier County Environmental Health Department

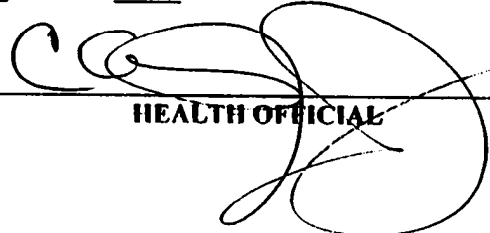
PIN# 6984-23-9484

County of Fauquier Dept of Solid Waste Mgmt hereby granted permission to operate a Type I Sewage Disposal System having a design capacity of 150 gpd. This permit is issued in accordance with the Provisions of 32.1, Chapter 6 of the Code of Virginia as amended and Section(s) 3.22 of the Virginia Sewage Handling and Disposal Regulations of the Virginia Department of Health and any variances or conditions granted issuance of and Operating Permit does not imply or guarantee that the Sewage Disposal will function for any specified period of time.

Variance granted
 None See Attached

Special Conditions
 None See Attached

8/21/97
Effective Date


HEALTH OFFICIAL

Completion Statement

Commonwealth of Virginia
State Department of Health

Health Department
Identification Number SD-96-513
Fauquier Count Health Department

Name of Company/Corporation/Individual: R.L. ~~Ryder~~ Ryder

Address: #36 Marshall St Warrenton VA 20186 Telephone: 377-1611

Owner's Name Fauq. Dept. Solid Waste Mgt.

Owner's Address 28 W Lee St Warrenton VA

Location of Installation: Lot _____ Block _____

Section: Corral Farm Landfill Subdivision: _____

Other: 6984-23-9484

I hereby certify that the onsite sewage disposal system has been installed and completed in accordance with the construction permit issued (date) 1/31/97 and is in compliance with Part D of the Sewage Handling and Disposal Regulations and when appropriate the plans and specifications for the project.

1/31/97
Date

James E. Lee Jr.
Signature and Title

Record of Inspection - Private Water Supply System

Item b.

Commonwealth of Virginia
Department of Health

Health Department
I.D. Number SD-96-513

F.H.A. or V.A. Case Number
If Applicable

Date 1/17/97 Local Health Department Fauquier

Owner Fauq DEPT of Solid Waste Mgm Address _____ Phone _____

Exact Location of Premises _____

Subdivision _____ Section/Block _____ Lot _____

Class of nonpublic drinking water well. 1) Class III A
2) Class III B
3) Class III C
4) Other
Date of installation 2/27/97

CONSTRUCTION INFORMATION

If information in any item below is secured from other sources (i.e. well log, etc.), so note.

1. Water well completion report filed as required by Sec. 2.18 Yes No
2. Well Location: Distances from sources of pollution (See Table 3.1, Minimum Separation Distances) and Section 3.4 of the Private Well Regulations.
Building Sewer SD+ Pretreatment Unit SD+
Conveyance System 80'+ Subsurface Soil Absorption System 80'+
(nearest point). Property Line 10'+ Other landfill = 500+
Site graded where necessary to divert water away from well? Yes No N/A
3. Construction, General: (see Section 3.6 and 3.7 Private Well Regulations).
Total depth of well 225 feet. Type of casing steel
Depth of casing 75 feet. Diameter of casing 6 1/4 inches.
Casing extends inches above ground ~12". Exterior space sealed with neat cement grout to a depth of 50 feet. Screens constructed of _____
free of rough edges and irregularities, with positive watertight seal between screen and casing?
Yes No N/A Well head and opening to the interior protected? Yes No
Type of well seal perm, vented Pitless adapter used? Yes No N/A
Properly installed? Yes No N/A Proper venting? Yes No N/A
4. Quantity: Yield and drawdown determined by continuous pumping of 2 hours. Drawdown 15 feet. Yield 25 GPM. Type of storage well only
5. Quality: Sample tap provided at entry into system? Yes No Samples(s) collected? Yes
No Results of samples. Satisfactory Unsatisfactory (attach copy of results of this form)

Based on the inspection of this water supply system and the information contained on the water well completion report attached, this water supply meets does not meet the requirements of the Private Well Regulations.

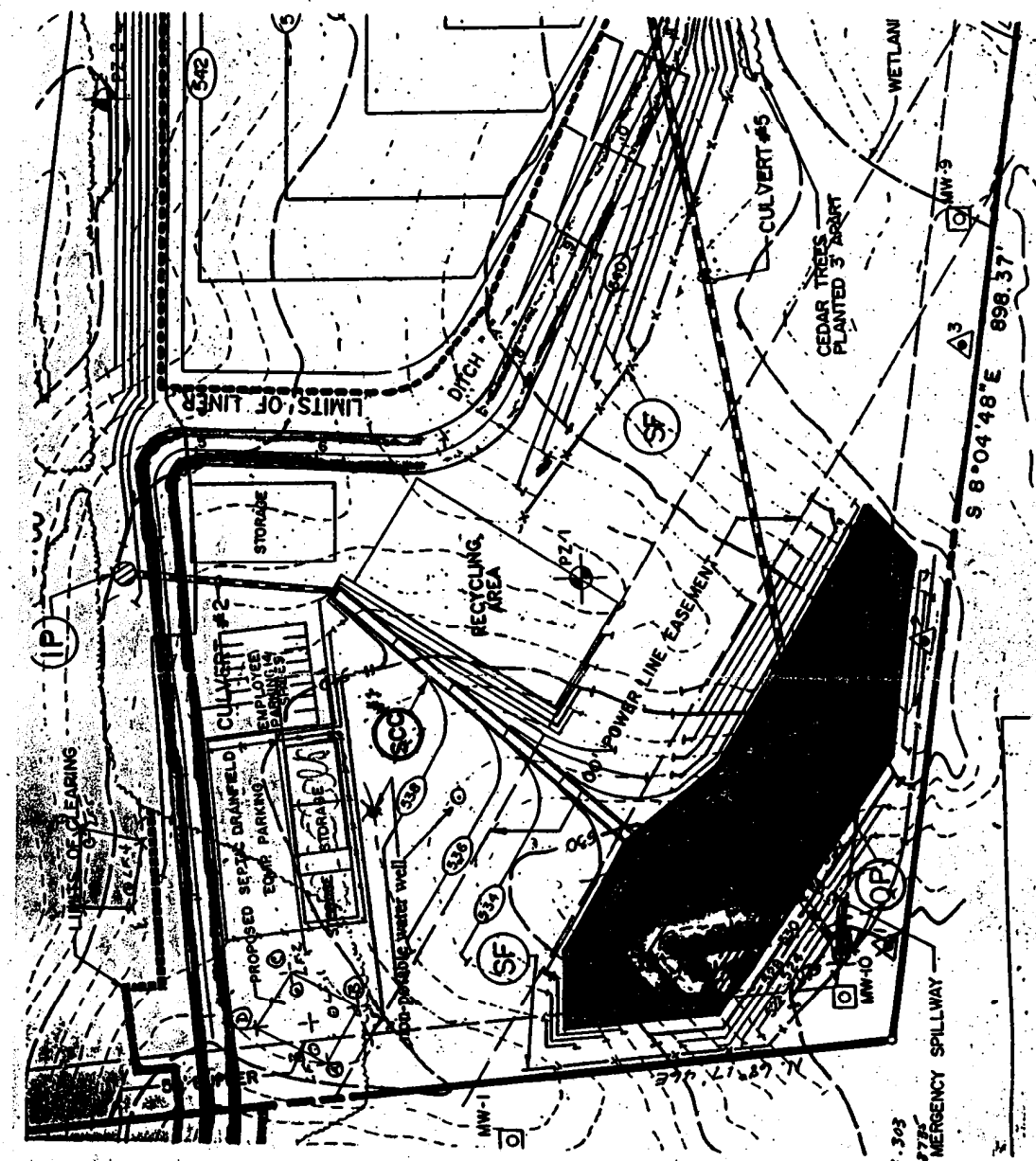
Remarks: Best approved using neat cement grout. Well approved on construction
only on basis of driller's log - 2.
Lehigh Valley Inc. - 2/27 3/1/97.

Date 3/1/97 Signed [Signature]
Sanitarian

Date 3/1/97 Signed [Signature]
Supervisory Sanitarian

Date _____ Signed _____
Regional Sanitarian (If V.A. or F.H.A.)

6
1305
650



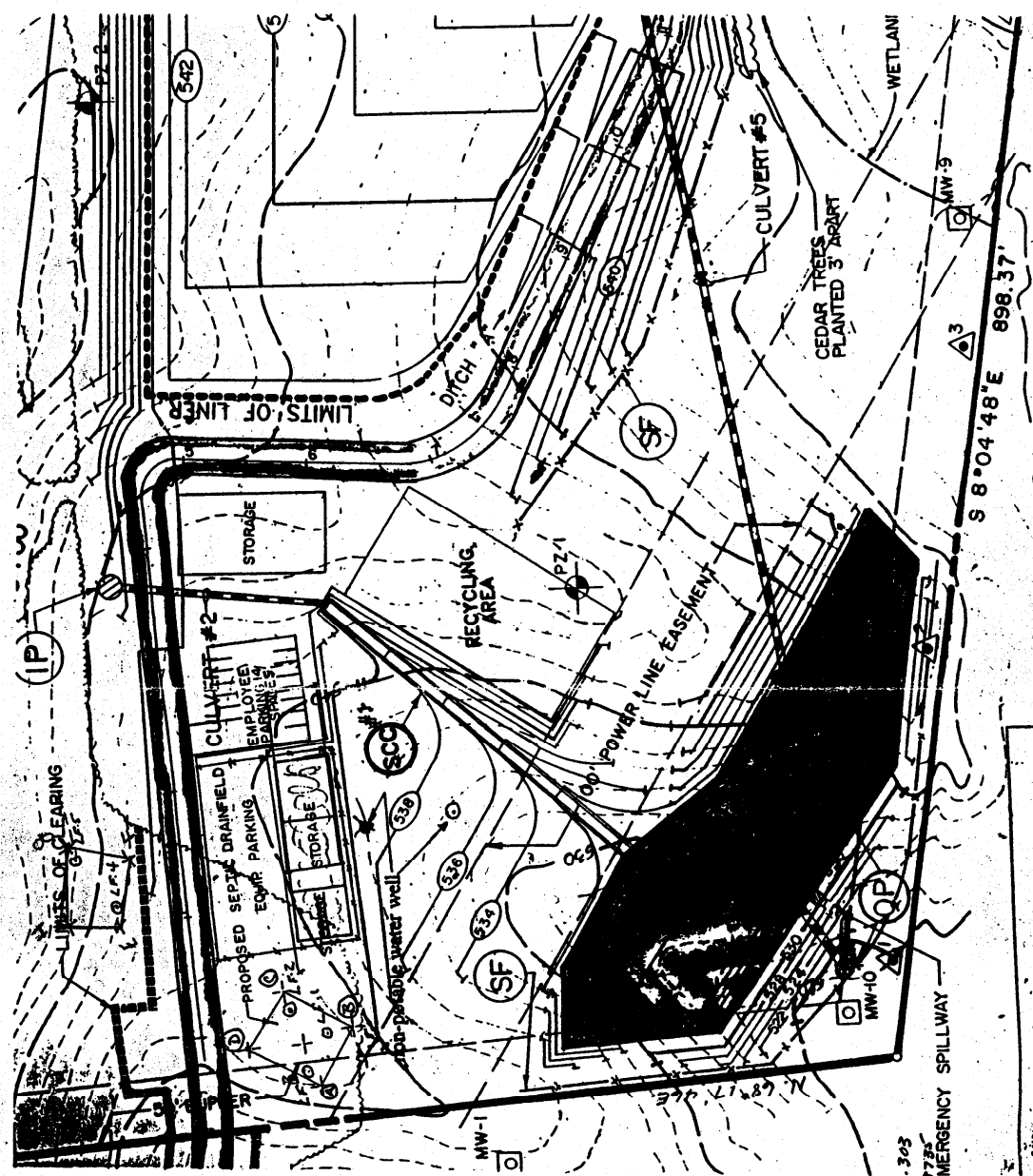
1" = 100'

PROPOSED SEPTIC DRAINFIELD	
A	12357.6136 10586.5161
B	12448.1871 10628.9207
C	12451.2932 10558.4537
D	12464.0255 10346.5326
LF #1	12445.4522 10547.3052
LF #2	12468.1234 10551.3740
LF #3	12422.2520 10617.2063
PROPOSED 100% RESERVE DRAINFIELD	
E	12546.6602 10362.7460
F	12472.1112 10374.7653
G	12474.9762 10320.4129
H	12525.1478 10207.7291
LF #4	12507.9472 10362.5247
LF #5	10523.7243 10312.0004

N. 12553.303
E. 1024.272
EMERGENCY SPILLWAY

PROPOSED SEPTIC DRAINFIELD	
A	12397.4136 10586.5121
B	12448.1887 10602.9207
C	12451.2932 10550.4539
D	12404.0255 10516.5336
LF#1	12445.4520 10547.3052
LF#2	12448.1234 10551.3740
LF#3	12422.3520 10617.3063

PROPOSED 100% RESERVE DRAINFIELD	
E	12541.6602 10363.1460
F	12492.1112 10374.7653
G	12474.9762 10380.4129
H	12525.1473 10307.7291
LF#4	12507.9472 10368.5943
LF#5	12523.7243 10312.0004



N. 12553.303
E. 1024.879
MERCURY SPILLWAY

1" = 100'

1305
650

Schematic drawing of sewage disposal and/or water supply system and topographic features.

Show the lot lines of the building site, sketch of property showing any topographic features which may impact on the design of the well or sewage disposal system, including existing and/or proposed structures and sewage disposal systems and wells within 200 feet. The schematic drawing of the well site or area and/or sewage disposal system shall show sewer lines, pretreatment unit, pump station, conveyance system, and subsurface soil absorption system, reserve area, etc. When a nonpublic drinking water supply is to be permitted, show all sources of pollution within 200 feet.

The information required above has been drawn on the attached copy of the sketch submitted with the application. Attach additional sheets as necessary to illustrate the design.

PIN 6984-23-9484
prop 1 BR equivalent 1,150 gpd
Warrenton Service District (100% Reserve)

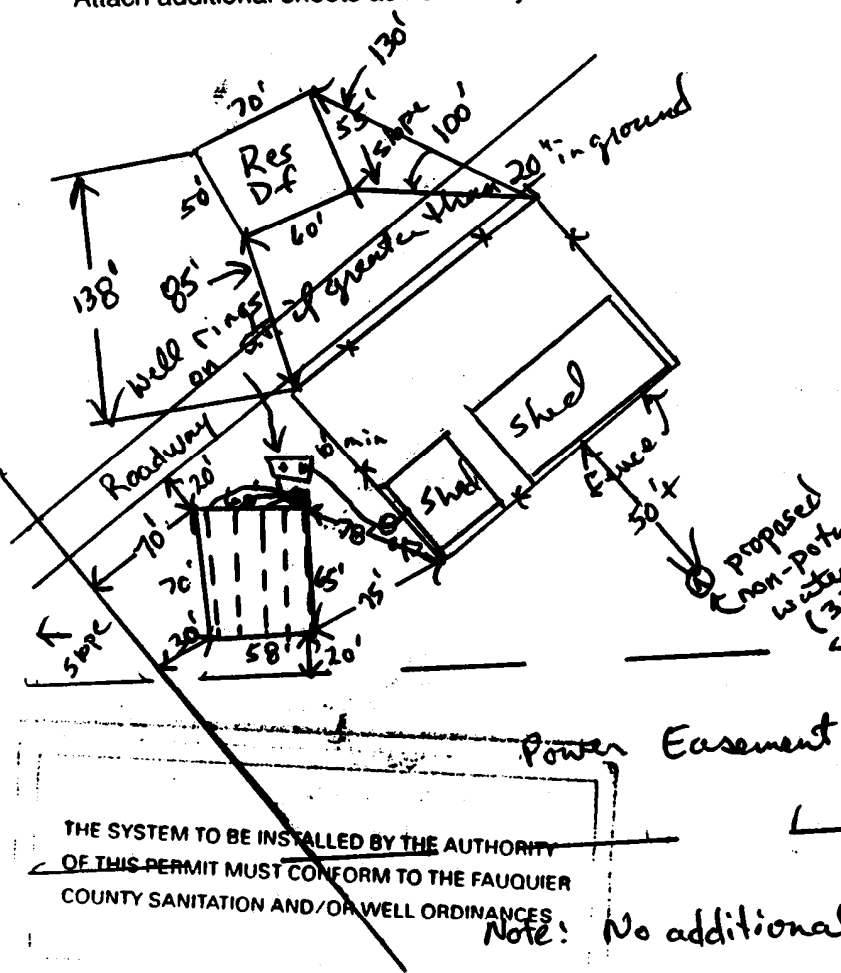
SEWAGE PERMIT REQUIREMENTS

- * Drawing not to scale.
- * Permit void if building location interferes with approved drainfield location.
- * Designed for basement plumbing YES **(NO)**
- * Drainfield to be 100+ feet from all Class IIIA&B wells,
- * Install 5-65 feet lines, ON CONTOUR, in 2 foot-wide trenches on 6 feet centers.
- * Trench bottoms installed 45" inches deep.
- * Smooth-walled header pipes recommended.
- * Extend header pipes 24 inches into gravel.
- * Use single size gravel 0.5 to 1.5 inch diameter.
- * No parking or driving on drainfield system.
- * No trees within 10 feet of system.
- * Pump septic tank and distribution box every 3 - 5 years.

NO WET WEATHER CONSTRUCTION
Note: well location sited by private engineer, not Health Dept.

WELL REQUIREMENTS

- * Install Class 3B well 50 + feet away from drainfield, reserve, treated foundation and all sources of contamination.
- * All well grouts to be witnessed by environmental health specialist.
- * Water to be tested for potability.



Note: No additional cuts allowed in D of area

This sewage disposal system and/or water supply is to be constructed as specified by the permit or attached plans and specifications.

This sewage disposal system and/or well construction permit is null and void if (a) conditions are changed from those shown on the application (b) conditions are changed from those shown on the construction permit.

No part of any installation shall be covered or used until inspected, corrections made if necessary, and approved, by the local health department or unless expressly authorized by the local health dept. Any part of any installation which has been covered prior to approval shall be uncovered, if necessary, upon the direction of the Department.

Date: 1/17/97 Issued by: dilled. [Signature]
 Date: 1/17/97 Reviewed by: [Signature]
 Sanitarian: EHSRIA
 Supervisor: [Signature]

This Construction Permit Valid until 1/17/98

If FHA or VA financing



COMMONWEALTH of VIRGINIA

IN COOPERATION WITH THE
STATE DEPARTMENT OF HEALTH

Fauquier County Health Department

(703) 347-6363

ENVIRONMENTAL HEALTH
320 HOSPITAL DRIVE - SUITE 21
WARRENTON, VIRGINIA 22186

SEWAGE DISPOSAL SYSTEM OPERATION PERMIT

Commonwealth of Virginia
Department of Health

Health Department ID # SD-96-513
Fauquier County Environmental Health Department

PIN# 6984-23-9484

Fauquier County Dept of Solid Waste mgmt hereby granted permission to operate a Type E Sewage Disposal System having a design capacity of 150 gpd. This permit is issued in accordance with the Provisions of 32.1, Chapter 6 of the Code of Virginia as amended and Section(s) 3.22 of the Virginia Sewage Handling and Disposal Regulations of the Virginia Department of Health and any variances or conditions granted issuance of and Operating Permit does not imply or guarantee that the Sewage Disposal will function for any specified period of time.

Variance granted
 None See Attached

Special Conditions
 None See Attached

3/11/97
Effective Date

HEALTH OFFICIAL

Conditions
① Operation permit limited to 60 days from 3/11/97 to allow permit holder to secure monitoring well permits and data to be delivered to health department. Failure to deliver will void this OP and all activities connected with this permit must cease.

growth and development edging in our direction.

We look with pity and disappointment on the once lovely counties of Loudoun and Prince William, now far-down the path to overgrowth, over-development and overpopulation. Did anyone happen to read the front page story in *The Washington Post* a few weeks ago that focused on

might be stating that the writers of this letter are "elitist no-growthers."

The question back is: "Why are we elitist just because we want to save our way of life?" We're not wealthy. We have full-time jobs — in Bethesda, Md. But that commute is worth the trip just to escape the

County. We've been where over-development takes you and we don't ever want to go there again.

Marcy Browning Freeman
Andre J. Freeman
Warrenton

Landfill concerns

Today we are crying for help. These isn't a day in our family's life that the landfill isn't staring us straight in the face. There is a 200-foot mountain of waste reaching into every aspect of our lives. Our water is polluted, we don't dare drink it. Our property has been inundated with landfill run-off, methane gas has invaded our home. The thought alone is enough to invoke fear.

The landfill has removed so many trees from behind our home that we can now count the number of methane vents that are present there. The methane levels alone at the landfill are cause for sheer terror. It is a fact that methane can migrate 2,000 feet from its source. It has already been in our home. Did anyone know that the methane probes on the west side of the landfill have shown levels at 50 times the explosive limit every month for the last 2 1/2 years? Now probes on the south side are active. The methane is rampant, always has been, always will be. And here we are, just feet away, possibly minutes away from a methane explosion.

The county constructed a pond 150 feet from our well that collects stormwater run-off from the landfill. This pond has levels of contaminants in it that would scare you. The water from this pond has been routed to flow directly through the middle of our property. The entire topography of the land behind us has been changed, making our property an extension of the

Sewer and money

I was at the House of Delegates subcommittee hearing Feb. 10 when attorney Ben Jones, who works for the developers of Waterfield, testified for the board of supervisors and the Fauquier County Water and Sanitation Authority against Sen. Edd Houck's (D-Spotsylvania) bill.

Mr. Jones told the legislators that he was putting his money where his mouth is: "I own a place where I hope to retire to down in Lancaster County, down on the Rappahannock River. And I own a stream, and the stuff that comes down the river comes right up to my house, my front yard. And I crab here and I eat the

operate in direct violation of its permit, the state law, and without regard as much as a phone call from our supervisors to check on our concerns or well-being. They knew we are here. They have not made any effort to inspect our property which has been destroyed by landfill run-off. They have never bothered to ask us about the pollution in our water, knowing we live downhill from the landfill and the water from the landfill flows into our well. They have not even inquired whether or not our two small children are well. Not once did any of

oysters from there, so I'm, I'm not worried about this. I know there's not — there's nothing wrong with untreated wastewater there's nothing wrong with standards that the Water Control Board uses."

Mr. Jones is presently in Fauquier County and will make the money from this county and its citizens to retire to the house of his dreams somewhere else. Fauquier and its citizens, who would like to spend the rest of their lives here, are left to pay for the disasters he helps to create. He is putting his money on Fauquier County taxpayers' money where his amount is?

Denise R. Williams
Warrenton

them call when the evacuation from methane was ordered by the county's hazardous materials response team. We are out here in harm's way and our board of supervisors could control less.

Today we are angry because we are left to live next to a landfill where the county government does everything it can to promote the landfill's longevity, prosperity and security. The things we thought it was supposed to work toward for its citizens.

Bruce W. Cooner
Sonya L. Sanchez
Warrenton

Tim Bridges
3/13/97
9:50 AM
Requested
apps +
all pertinent
info.

Item E.

Item b.

Completion Statement

Item E.

Commonwealth of Virginia
State Department of Health

Health Department
Identification Number

SD-96-513

Empire Coast Health Department

Name of Company/Corporation/Individual:

R.L. Rhee

Address: *#36 Marshall St Warrenton VA 97146 Telephone: 377-1611*

Owner's Name: *Fanny Dept. Solid Waste Mgt.*

Owner's Address: *78 W Lee St Warrenton VA*

Location of Installation: Lot _____ Block _____

Section: *Corral Farm Landfill* Subdivision: _____

Other: *6984-23-9484*

I hereby certify that the onsite sewage disposal system has been installed and completed in accordance with the construction permit issued (date) *1/17/97* and is in compliance with Part D of the Sewage Handling and Disposal Regulations and when appropriate the plans and specifications for the project.

1/31/97

Date

James E. Rhee

Signature and Title

639

Item b.

Commonwealth of Virginia
Application for a Sewage Disposal and/or Water Supply Permit

Health Department ID SD-96-513

To Be Completed By The Applicant

Type of sewage system: New Repair Expanded Conditional
FHA/VA yes no Case No. _____

Owner Faug. Co. Dept. of Solid Waste Management Address 78 W Lee St. Warrenton, Va. Phone (347) 681 2

Agent _____ Address _____ Phone _____

Directions of Property 295 (L) LFCA/gcc entrance to landfill bldg

Subdivision Corralo Farm Landfill Section _____ Block _____ Lot _____

Other Property Identification _____

Dimension/size of Lot/Property 6984-23-9484

Other Application Information

I. Building/facility New Existing
Intermittent Use Yes No If yes, describe _____

II. Residential Use Yes No
Termite Treatment Yes No Equip Shed
 Single Family Multi-family
(Number of Bedrooms _____) (Number of Units _____)

Basement Yes No
Fixtures in Basement Yes No

III. Commerical Use Yes No Describe: _____
Commerical/Wastewater Yes No Number of Patrons _____
Number of Employees _____

If yes, give volumes and describe _____

IV. Water Supply: Public Private New Existing
Describe: _____

V. Proposed Sewage Disposal Method:
Onsite Sewage Disposal System: Septic Tank Drainfield LPD Mound Other
Public Sewerage System

Attach a site plan (rough sketch) showing dimensions of property, proposed and/or existing structures and driveways, underground utilities, adjacent soil absorption system, bodies of water, drainage ways, and wells and springs within 200 feet radius of the center of the proposed well or drainfield. Distances may be paced or estimated.

The property lines and building location are clearly marked and the property is sufficiently visible to see the topography. I give permission to the Department to enter onto the property described for the purpose of processing this application.

[Signature] Signature of Owner/Agent 9/25/96 Date

6984-23-9484

COMMONWEALTH OF VIRGINIA
Department of Health

Z10023

Item E.

PCMS Pt. #

Health Department Date: 9-25-96

Faugusier Co.

Received of: Faug. Co. Dept of Solid Waste

Two Hundred - Ninety Dollars & 00/100 Dollars \$ 290.00 CASH # 046449

For: Septic & Well Permit Local Use: _____ CHECK MONEY ORDER

Services Given For: Corrall Farm Landfill

Received By: J. Brown

Codes	Amt.	Codes	Amt.
	\$ _____	02116	\$ 10.00
	\$ _____	02119	\$ 40.00
02116	\$ 65.00	02345	\$ 173.00
			641

ADM-1304 REV. 10/91

Item b.



Item b.

County of Fauquier
Department of Solid Waste Management

Ellis D. Bingham
Solid Waste Manager

78 W. Lee Street (Suite 100)
Warrenton, Virginia 22186
(703) 347-6810
Fax: (703) 341-7129

Jill Genco
Accounting

Benji Brackman
Recycling Coordinator
(703) 347-6830

Lori Shremshock
Support Services

September 11, 1996

SPECIAL CHECK REQUEST

DATE: September 11, 1996
DEPARTMENT: Solid Waste Management
PAYEE: Commonwealth of Virginia, Department of Health
AMOUNT: \$290.00
CHARGE CODE: 4-513-42710-6055 (Permitting Fees)

PURPOSE: (Please list why a special check is needed versus the next available A/P Bill Run)

Drainfield permit renewal.

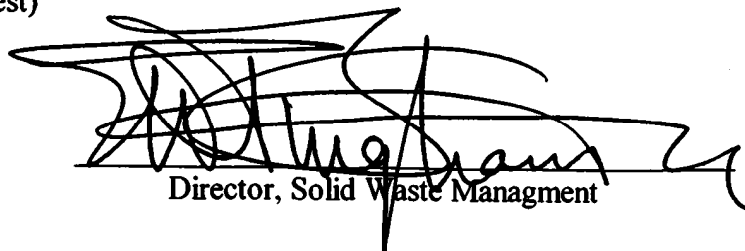
Permit is needed ASAP to continue construction of operations building and recycling building at new landfill.

**SEND THE CHECK TO:
NAME & ADDRESS:**

Call Jill (x 6813). Department of Solid Waste Management will pick up to mail with required forms.

(Original Invoice Must Accompany This Request)

V22056
912968


Director, Solid Waste Management

Sewage Disposal System Construction Permit

Commonwealth of Virginia
Department of Health

Fauquier Co ENV. Health Department



Health Department
Identification Number
Map Reference

SD-93-655

Subd

General Information

New Repair Expanded Conditional FHA VA Case No. _____
Based on the application for a sewage disposal system construction permit filed in accordance with Section 3.13.01, a construction permit is hereby issued to:
Owner Fauquier County Solid Waste Telephone (703) 347-6800
Address 78 W Lee St, Suite 100, Warrenton, VA 22186
For a Type I Sewage disposal system which is to be constructed on/at 295 @ LFCC/gcc
entrance to landfill Adg.
Subdivision Coral Farm Landfill Section/Block _____ Lot _____
Actual or estimated water use 150 gpd 1 BR EQUIVALENT

DESIGN

NOTE: INSPECTION RESULTS

Water supply, existing: (describe) <u>N/A</u> <u>signs must be posted at all spigots stating Non-Potable</u> To be installed: class <u>II B</u> Non Potable <u>grount to be</u> cased <u>50' min to Rock</u> grouted <u>50' min to Rock</u>	Water supply location: Satisfactory yes <input type="checkbox"/> no <input type="checkbox"/> comments _____ G. W. 2 Received: yes <input type="checkbox"/> no <input type="checkbox"/> not applicable <input type="checkbox"/>
Building sewer: <u>Install 4" at End.</u> <u>4" I.D. PVC 40, or equivalent.</u> Slope 1.25" per 10' (minimum). <input type="checkbox"/> Other <u>smooth pipe to DB</u>	Building sewer: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Septic tank: Capacity <u>1000</u> gals. (minimum). <input checked="" type="checkbox"/> Other <u>No garbage Disposals</u>	Pretreatment unit: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Inlet-outlet structure: <u>8" in 18" out</u> PVC 40, 4" tees or equivalent. <input checked="" type="checkbox"/> Other <u>Stub T" 1" Below Lids</u>	Inlet-outlet structure: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Pump and pump station: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> describe and show design. if yes: _____	Pump & pump station: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Gravity mains: <u>3/4" or larger I.D., minimum 6" fall per</u> <u>100', 1500 lb crush strength or equivalent.</u> <input type="checkbox"/> Other _____	Conveyance method: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Distribution box: Precast concrete with <u>5+ ports.</u> <input checked="" type="checkbox"/> Other <u>Bed on 4" concrete PAD</u>	Distribution box: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Header lines: Material: 4" I.D. 1500 lb. crush strength plastic or equivalent from distribution box to 2' into absorption trench. Slope 2" minimum. <input type="checkbox"/> Other _____	Header lines: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Percolation lines: Gravity 4" plastic 1000 lb. per foot bearing load or equivalent, slope 2" 4" (min. max.) per 100'. <input type="checkbox"/> Other _____	Percolation lines: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Absorption trenches: Square ft. required <u>672</u> ; depth from ground surface to bottom of trench <u>48"</u> ; aggregate size <u>1/2 to 1 1/2"</u> ; Trench bottom slope <u>2-4" per 100'</u> ; center to center spacing <u>9'</u> ; trench width <u>3'</u> Depth of aggregate <u>13"</u> ; Trench length <u>56'</u> ; Number of trenches <u>4</u>	Absorption trenches: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory

Date 6/15/93 Inspected and approved by: _____

Sanitarian

Health Department
Identification Number

SD-93-655

Schematic drawing of sewage disposal system and topographic features.

PAGE 2 OF 2

Show the lot lines of the building lot and building site, sketch of property showing any topographic features which may impact on the design of the system, all existing and/or proposed structures including sewage disposal systems and wells within 100 feet of sewage disposal system and reserve area. The schematic drawing of the sewage disposal system shall show sewer lines, pretreatment unit, pump station, conveyance system, and subsurface soil absorption system, reserve area, etc. When a nonpublic drinking water supply is to be located on the same lot show all sources of pollution within 100 feet.

IBR EQUIV. 150gpd

SEWAGE - NON-POTABLE WELL CORAL FARM LANDFILL

The information required above has been drawn on the attached copy of the sketch submitted with the application. Attach additional sheets as necessary to illustrate the design.

SEWAGE SYSTEM IS FOR
EQUIPMENT WASH-DOWN
AND RESTROOM FACILITIES
ONLY. WATERLESS HAND-CLEANERS
AND BOTTLED DRINKING
WATER REQUIRED.

LANDFILL
CELLS

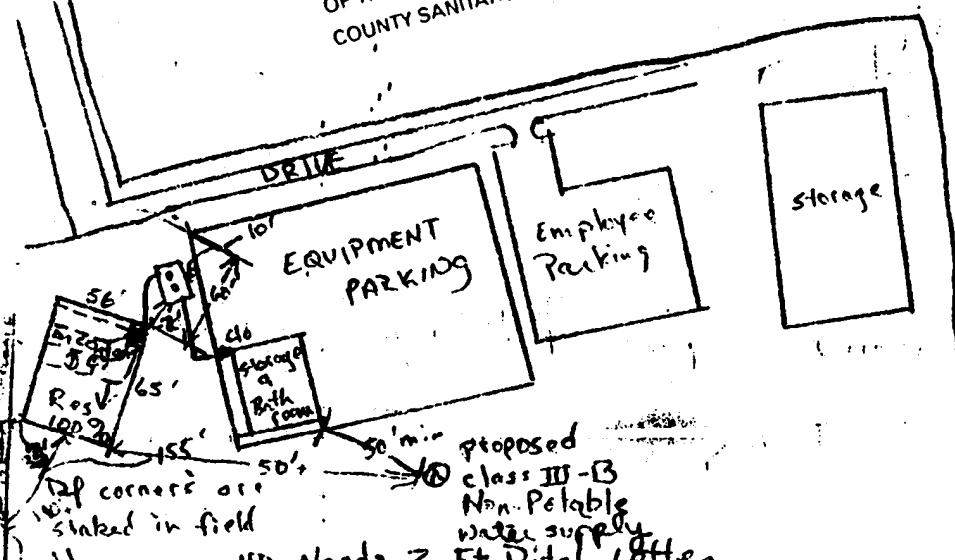
THE SYSTEM TO BE INSTALLED BY THE AUTHORITY
OF THIS PERMIT MUST CONFORM TO THE FAUQUIER
COUNTY SANITATION AND/OR WELL ORDINANCES.

SEWAGE PERMIT REQUIREMENTS

- * Drawing not to scale
- * Permit void if building location interferes with approved drainfield location.
- * Designed for basement plumbing YES NO
- * Drainfield to be 100' from Class III wells and 50' from all Class II/IIA wells.
- * Install 4 56' lines, IN CONTINU, in 3' wide trenches, on 9' centers.
- * Install trenches 48" deep.
- * Smooth-walled header pipes recommended.
- * Extend header pipes 24" into gravel.
- * Use single size gravel 0.5" to 1.5" dia.
- * No parking or driving on drainfield system
- * Divert roof drains away from drainfield.
- * No trees within 10' of system.
- * Pump septic tank every 2 - 3 years

WELL PERMIT REQUIREMENTS

- * Install Class III well 50' feet + away from drainfield, reserve, treated foundation and all sources of contamination
- * All well grants to be witnessed by environmental health specialist
- * water is for equipment cleaning + toilet-flushing only.



The sewage disposal system is to be constructed as specified by the permit or attached plans and specifications .

This sewage disposal system construction permit is null and void if (a) conditions are changed from those shown on the application (b) conditions are changed from those shown on the construction permit.

No part of any installation shall be covered or used until inspected, corrections made if necessary, and approved, by the local health department or unless expressly authorized by the local health dept. Any part of any installation which has been covered prior to approval shall be uncovered, if necessary, upon the direction of the Department.

Date: 12/7/93 Issued by: [Signature]

Date: 12/7/93 Reviewed by: [Signature]
Supervisory Sanitarian

This Construction Permit Valid until 12/7/94

If FHA or VA financing

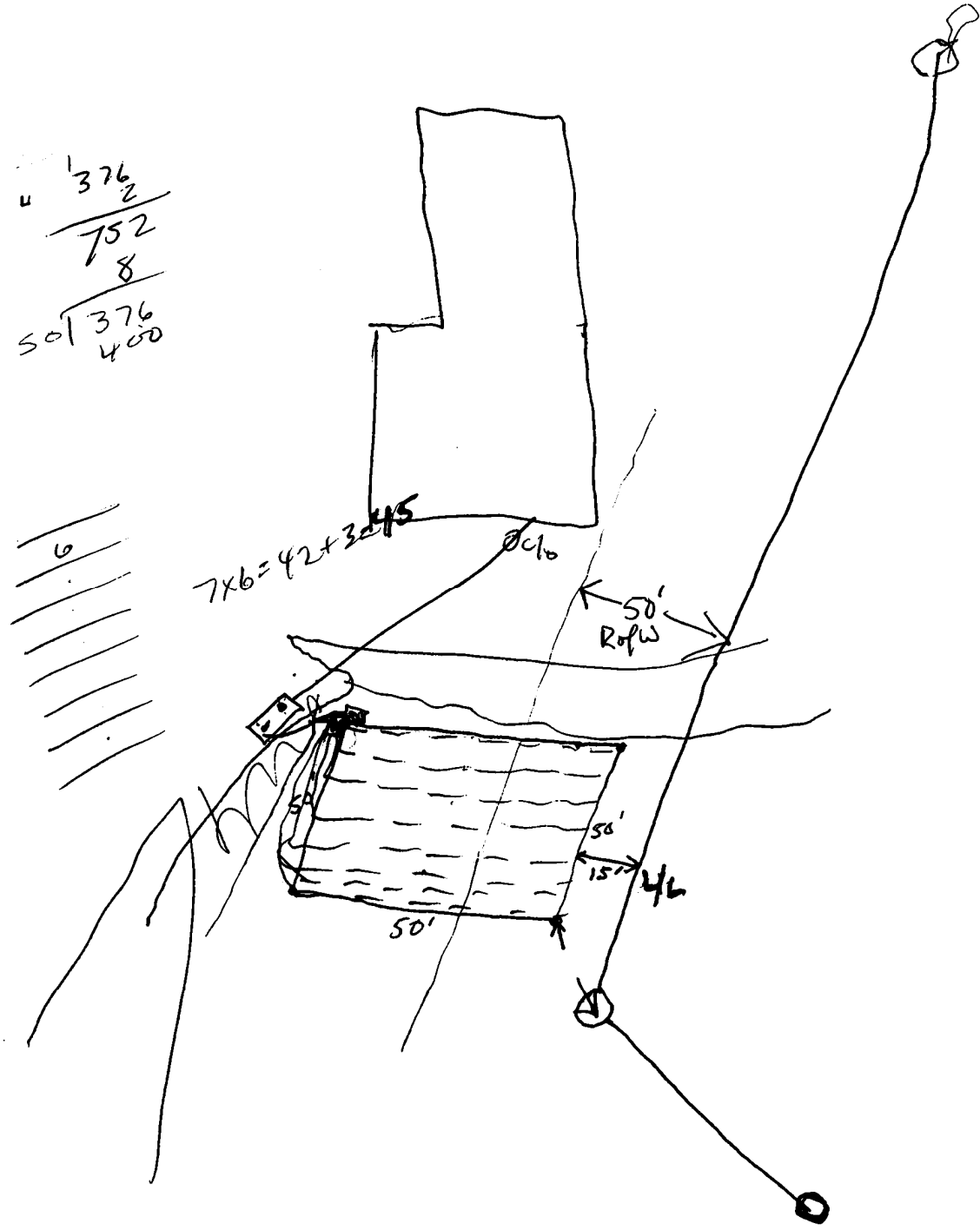
Reviewed by Date _____ Date _____

Supervisory Sanitarian

Regional Sanitarian

$\sqrt{376}$
 $\frac{752}{8}$
 $\sqrt{376}$
 400

6



Soil Evaluation Form

Commonwealth of Virginia
Department of Health

Health Department
Identification Number _____
Tax Map Number _____

Land Fill _____

General Information

Date # 11/1/96 Fauquier County Health Department
Applicant Fauquier County Board of Supervisors Telephone No. (703) 347-8660
Address 40 Culpeper Street, Warrenton, VA 22186
Owner same Address _____
Location _____
Subdivision N/A Block/Section _____ Lot _____

Soil Information Summary

- Position in landscape satisfactory: Yes No Describe Man-made Ridgetop (profiles 1.2.3) and Sideslope (profiles 4.5) _____
- Slope Original-3%; Reserve-8%
- Depth to rock/impervious strata Max >60" Min. None
- Depth to seasonal water table (gray mottling or gray color) No Yes
- Free Water present No Yes _____ range in inches
- Soil percolation rate estimated Yes Texture group I II III IV
No Estimated rate 45 min inch
- Percolation test performed Yes Number of percolation test holes _____
No Depth of percolation test holes _____
Average percolation rate _____

Name and title of evaluator: Danny R. Hatch VCPSS: Fauquier County Soil Scientist + C A Jackson Jr 2H5-SR1A
Signature: Danny R Hatch CA Jackson Jr

Department Use

- Site Approved: Drainfield to be placed at 45" depth at site designated on permit.
 Site Disapproved:

Reasons for rejection:

- Position in landscape subject to flooding or periodic saturation.
- Insufficient depth of suitable soil over hard rock.
- Insufficient depth of suitable soil to seasonal water table. N/A
- Rates of absorption too slow.
- Insufficient area of acceptable soil for required drainfield, and/or Reserve Area.
- Proposed system too close to well.
- Other Specify _____

Date of Evaluation 10/30/96Health Department
Identification No. _____

Profile Description
SOIL EVALUATION REPORT

Page 1 of 5

Where the local health department conducts the soil evaluation the location of profile holes may be shown on the schematic drawing on the construction permit or the sketch submitted with the application. If soil evaluations are conducted by a private soil scientist, locations of profile holes and sketch of the area investigated including all structural features i.e., sewage disposal systems, wells, ect., within 100 feet of site (See section 4) and reserve site shall be shown on the reverse side of this page or prepared on a separate page and attached to this form.

- See application sketch See construction permit See sketch on reverse side or page attached to this form.

Hole #	Horizon	Depth (Inches)	Description of, color, texture, etc.	Texture Group
1	Fill	0-20		
	Bt	20-41	Red (10R4/6) silty clay loam+. moderate medium subangular blocky structure: friable: few faint clay films	III
	C	41-60	Red (2.5YR4/6) loam. structureless massive: friable	II
2	Ap	0-7	Brown to dark brown (7.5YR4/4) loam. compacted: firm	II
	Bt	7-22	Red (2.5YR4/6) silty clay loam. compacted: firm	III
	BC	22-33	Red (2.5YR4/6) loam+, weak medium subangular blocky structure: friable	II
	C	33-60	Red (2.5YR4/8) loam with common medium distinct brownish yellow (10YR6/8) mottles. structureless massive: friable: few manganese stains	II
3	Bt	0-14	Red (2.5YR4/6) silty clay loam+, compacted: firm: common manganese stains	III
	C	14-60	Strong brown (7.5YR5/6) loam with few coarse prominent red (10R4/6) mottles. structureless massive: friable: common manganese stains	II
4	A	0-5	Reddish brown (5YR4/4) silt loam: friable	II
	Bt	5-30	Red (2.5YR4/8) clay-. moderate medium subangular blocky structure: friable: few faint clay films	IV
	BC	30-40	Mottled red (2.5YR5/8) and reddish yellow (7.5YR6/8) clay loam. weak medium subangular blocky structure; friable: few manganese stains	III
	C	40-60	Mottled red (2.5YR5/8) and reddish yellow (7.5YR6/8) loam+. structureless massive: friable: few manganese stains	II
5	A	0-6	Reddish brown (5YR4/4) silt loam: friable	II
	Bt	6-30	Red (2.5YR4/8) clay, moderate medium subangular blocky structure: friable: few faint clay films	IV
	BC	30-42	Mottled red (2.5YR4/8) and brownish yellow (10YR6/8) clay loam: friable	III
	C	40-60	Mottled red (2.5YR5/8) and reddish yellow (7.5YR6/8) loam+. structureless massive: friable: few manganese stains	II

Remarks: Trench bottom should be 30" to 45" deep

Not to scale TB=45"

$$\begin{array}{r} A-D \quad 12404 \\ \quad \quad 12397 \\ \hline \quad \quad \quad 7 \end{array}$$

$$\begin{array}{r} B-C \quad 12451 \\ \quad \quad 12448 \\ \hline \quad \quad \quad 3 \end{array}$$



MORTON BUILDINGS, INC.

18478 Industrial Rd. • Culpeper, Virginia 22701-4114

Item b.
540/825-3633

Fax: 540/825-3699

DEPARTMENT OF COMMUNITY DEVELOPMENT
ZONING OFFICE
40 CULPEPER STREET
WARRENTON, VA 22186
(540) 347-8674

SUBJECT: 2500 Gallon Tank

Zoning Permit 40801NF Storage Building / Landfill Recycling
(Building Permit S96-05487)

Fauquier Board of Supervisors, Owner

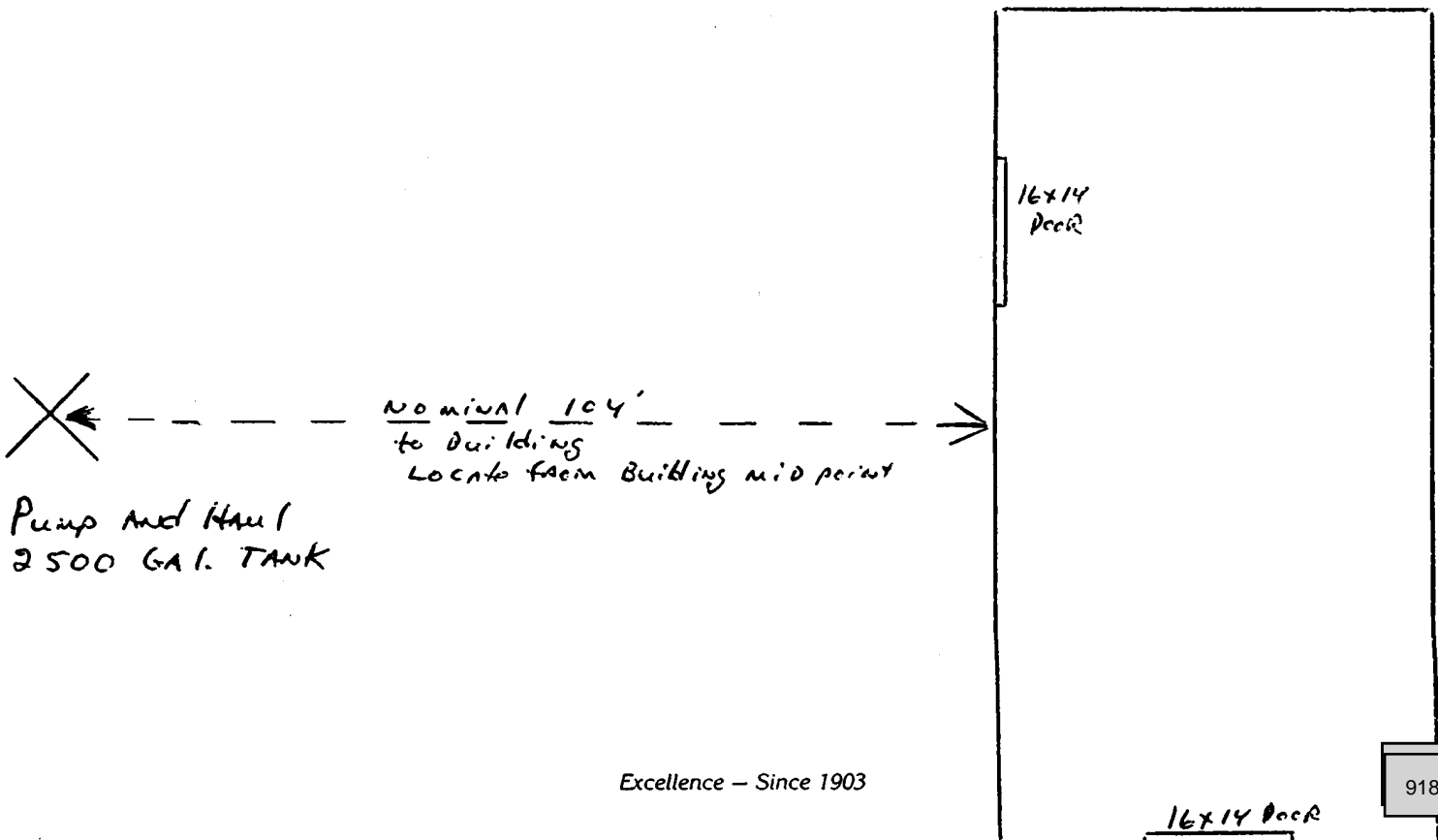
REC'D
JAN 20 1997
FAUQUIER COUNTY
BUILDING DEPT.

Tank shown on plans should have been identified as a "pump and haul" tank.
See notation below clarifying location of installed tank.

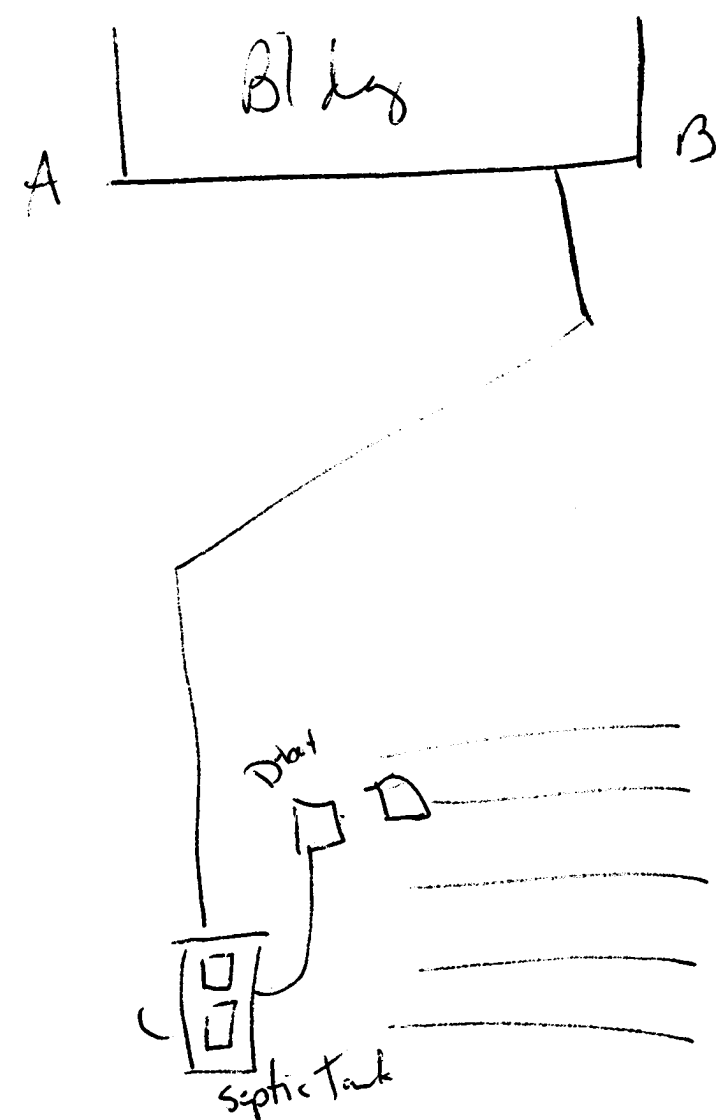
Mike M... Mgr.
Signature

1-28-97
Date

North ←



1/31/97 As Built - 6984-23-9484
Fauquier County
Lack Mill
Correll Farm



AC = 64.5'
BC = 99'

AD = 51'
BD = 84.5'

Commonwealth of Virginia Uniform Water Well Completion Report

Owner Baker Const Co, Inc
Address Warrenton, Va. 20186
Phone _____
Location _____

Tax Map ID _____
VDH Permit SP-96-513
WVCB Permit _____
WVCB ID 6924239484
County Fauq -
Class III B

* Well Data *

General Information
Drilling Method Rotary
Depth to Bedrock 63
Static Water Level 15
Well Disinfected (Y or N) Y

Date Completed 2/27/97
Yield 25 (GPM)
Stabilized Water Level _____
Disinfectant Used NTH

Total Depth of Well 235
Length of Test 2 hours
Natural Flow (Rate) _____
Amount Used 147

Casing
From _____ to 75
Size 6 1/4 Material Steel
Weight/Schedule 13.188 wall

From _____ to _____
Size _____ Material _____
Weight/Schedule _____

From _____ to _____
Size _____ Material _____
Weight/Schedule _____

Gravel Pack
From _____ to _____

From _____ to _____

From _____ to _____

Grout
From 0 to 50
Bore Hole Size 10" O.D.
Type _____
Method constant pressure

From _____ to _____
Bore Hole Size 6.75-7.35
Type _____
Method _____

From _____ to _____
Bore Hole Size _____
Type _____
Method _____

Water Zones or Screened Intervals
From 80 to 72
Mesh Size _____ Diam. _____
From _____ to _____
Mesh Size _____ Diam. _____

From 130 to 133
Mesh Size _____ Diam. _____
From _____ to _____
Mesh Size _____ Diam. _____

From 218 to 220
Mesh Size _____ Diam. _____
From _____ to _____
Mesh Size _____ Diam. _____

* Use Data *

Private Well: Domestic _____ Agricultural _____ Industrial _____ Monitoring _____
Public Well: Community _____ Non Community _____

Drillers Log
(Use additional sheets if necessary)

Item b.

Depth	Description of Formation or Sediment	Remarks
0-63 63-235	over Bender Rock	

I certify that the information contained here is true and that this well was installed and constructed in accordance with the permit and further that the well complies with all applicable state and local regulations, ordinances and laws.

Drilling Contractor Walter Dillinger, Inc.
Address P.O. Box 388 Farmington, Va. 22734
Phone 434-3030
Drillers Signature [Signature] Date 2/28/07
Representing [Signature]
Virginia Contractors License Number 020-358



COMMONWEALTH of VIRGINIA

IN COOPERATION WITH THE
STATE DEPARTMENT OF HEALTH

Fauquier County Health Department

ENVIRONMENTAL HEALTH
320 HOSPITAL DRIVE - SUITE 21
WARRENTON, VIRGINIA 22186

(703) 347-6363

March 27, 1997

Ms. Val Negley
County of Fauquier Building Office
40 Culpeper Street
Warrenton, Virginia 20186

RE: Potable Water Status of Well at Corral Farm Landfill

Dear Ms. Negley:

This letter is written per your request for verification that the new well drilled at the above referenced landfill as described on SD96-513 was changed by this office from a non-potable well to a Class 3B potable water supply and that it meets all the criteria set forth in the Private Well Regulations. If this office can be of further assistance, please call (540) 347-6369.

Sincerely,

A handwritten signature in black ink, appearing to read "C.A. Jackson Jr.", written over a horizontal line.

C.A. Jackson Jr.
EHS-Senior/A

Pin No. 6984-23-9484

Subd. _____

Old tax Map _____

TAG SHEET

NAME Dept of Waste Mgt.

Construction Permit ✓
Remodeling _____

Lot Certification _____
Repair _____

	<u>INITIALS</u>	<u>DATE</u>
Application Received	<u>9/25/96</u>	<u>JB</u>
Application Reviewed	<u>9/25/96</u>	<u>JB</u>
Fee Determination	<u>9/25/96</u>	<u>JB</u>
E.H.S. assigned to	_____	_____
Site visit scheduled	_____	_____
Site visit made	<u>11/1/96</u>	<u>cdj</u>
Follow-up visit	_____	_____
<u>Issue/Deny Drafted</u>	<u>1/17/97</u>	<u>cdj</u>
<u>Issue/Deny Reviewed</u>	<u>1/17/97</u>	<u>cdj</u>
<u>Issue/Deny Countersigned</u>	<u>1/17/97</u>	<u>cdj</u>
Lot Cert placed in pending	_____	_____
E.H.S. signing plat	_____	_____
Lot Cert and/or <u>permit</u> picked up <u>mailed</u>	<u>1/17/97</u>	<u>Pd</u>

**FAUQUIER COUNTY SANITARY LANDFILL
FAUQUIER COUNTY, VIRGINIA**

WELL COMPLETION REPORT

DAA PROJECT NO. 5308.28

Prepared for:

FAUQUIER COUNTY
Fauquier County, Virginia

Prepared by:

DRAPER ADEN ASSOCIATES
Glen Allen, Virginia

December, 1995

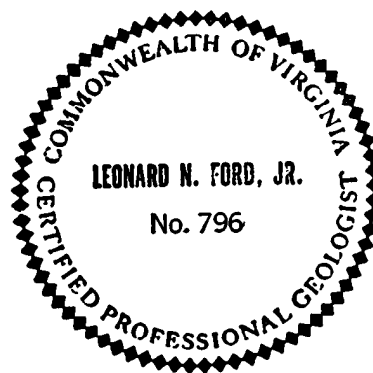
**FAUQUIER COUNTY SANITARY LANDFILL
FAUQUIER COUNTY, VIRGINIA**

WELL COMPLETION REPORT

DAA PROJECT NO. 5308.28

This document, including all attachments, was prepared by Draper Aden Associates in accordance with a contract between Draper Aden Associates and Fauquier County. This document has been prepared by Draper Aden Associates in accordance with generally accepted standards of environmental practice for the exclusive use of Fauquier County for specific application to the referenced site. No other warranty is either expressed or implied.

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Donna Lancaster
Project Geologist

Leonard N. Ford, Jr. (PhD, PG)
Project Manager

TABLE OF CONTENTS

- 1.0 SUMMARY
- 2.0 DRILLING
- 3.0 SOIL AND ROCK SAMPLING
- 4.0 WELL CONSTRUCTION
- 5.0 ANCILLARY REQUIREMENTS
- 6.0 WELL DEVELOPMENT
- 7.0 SURVEY DATA
- 8.0 LIMITATIONS

APPENDICES

- 1.0 TABLES
- 2.0 GEOLOGIC BORING LOGS

**FAUQUIER COUNTY SANITARY LANDFILL
FAUQUIER COUNTY, VIRGINIA**

WELL COMPLETION REPORT

DAA PROJECT NO. 5308.28

1.0 SUMMARY

On September 14, and September 15, 1995, Badger Drilling, Inc., advanced two borings at the subject site and constructed two groundwater monitoring wells (MW-13, MW-14) within the boreholes. Draper Aden personnel documented all well drilling and well construction procedures.

The monitoring wells were constructed in general accordance with the specifications outlined in the *Invitation For Bids: Drilling and Well Construction*, as prepared by Draper Aden Associates (dated September, 1995).

On September 21, 1995, Draper Aden personnel obtained static water levels and measured construction parameters in each of the monitoring wells. On September 21, 1995, Draper Aden personnel developed the two new monitoring wells. On November 8, 1995, Draper Aden personnel surveyed the locations and elevations of the groundwater monitoring wells and other relevant site features.

Well locations are shown on SHEET 1 (in pocket at back of report). Well specifications are presented in TABLE 1 (APPENDIX 1). Survey data are presented in TABLE 2 (APPENDIX 1). Static water level data are shown in TABLE 3 (APPENDIX 1). Geologic boring logs, which also illustrate monitoring well as-built data, are presented in APPENDIX 2.

2.0 DRILLING

2.1 Nominal Borehole Diameter

All boreholes were approximately 9.5 to 10 inches in diameter in order to help ensure that, when using 2-inch wellpipe, the minimum width of the annulus around the wellpipe would be greater than 2 inches.

2.2 Drilling Methods

Each boring was advanced using hollow stem auger drilling methods. The depth of each boring is listed on TABLE 1.

2.3 Cuttings

Drilling was performed in a manner that minimized the spreading of soil cuttings.

3.0 SOIL AND ROCK SAMPLING

3.1 Split Spoon Sampling

During drilling, soil materials were obtained using standard split-spoon samplers. In general, split-spoon samples were obtained at 5.0 foot intervals between the surface and the bottom of the borehole.

3.2 Cuttings

Cuttings were generally kept clear of the borehole and were stockpiled near the borehole upon completion of the monitoring well.

3.3 Continuous Coring

Not applicable.

3.4 Sample Disposition

After describing the contents of the split-spoon samplers, Draper Aden personnel placed the soil samples in plastic bags. The samples are archived at the offices of Draper Aden Associates, Glen Allen, Virginia.

4.0 WELL CONSTRUCTION

4.1 Construction Method

All wells were constructed within the hollow stem augers. The filter sand and the bentonite seal were not placed by the tremie pipe method; however, the depth from the ground surface to the top of each layer was carefully measured using a 100 foot tape (graduated in tenths of a foot). The observed procedure appeared to ensure that the filter sand and the bentonite seal were placed at the appropriate depths. A tremie pipe was used to place the cement-bentonite backfill.

4.2 Wellpipe and Screen

Each monitoring well was constructed of pre-cleaned Schedule 40 PVC pipe having an inner diameter of 2 inches.

The base of each well terminates with a factory-slotted PVC screen having a length of 10 feet and threaded PVC plug. Slots in the screen are 0.01 inch in width.

The driller wore clean, surgical-type gloves whenever handling PVC wellpipe, and the pipe was maintained in a clean manner.

In order to provide a smooth cut, a PVC pipe-cutter was used wherever it was necessary to shorten sections of PVC wellpipe.

4.3 Sandpack

The filter sand (No. 2, Drillers Service, Inc.) appeared to be a clean sand, with no fraction exceeding a nominal diameter of approximately 0.25 inches.

Filter sand was placed in the annulus around the well riser to a point approximately 2 feet above the top of the screen in the monitoring well.

4.4 Bentonite Seal

The annulus around the wellpipe was sealed with a layer of bentonite pellets, which was placed directly above the sand filter pack. The minimum thickness of the bentonite layer in each monitoring well is two (2) feet.

4.5 Grout

Following hydration of the bentonite seal, each boring was sealed with a Portland Type I bentonite/cement slurry, using the tremie-pipe method.

4.6 Surface Completion

Each well was completed with a concrete apron, capped PVC well riser, and outer protective casing.

The outer protective casing is constructed of steel, is square in cross-section, has a hinged lid (that can be lifted upward, then to either side, to gain access to the well), and has a diagonal dimension of not less than 8 inches.

Each concrete apron has the following approximate dimensions: 3 feet x 3 feet x 3.5 inches. A form was used in constructing each apron. The form was approximately centered with respect to the protective steel casing.

A spike was placed into each concrete apron for surveying purposes.

A vent hole was drilled through the PVC riser at a point approximately 2 inches (\pm 1 inch) below its top.

A drain hole was drilled through each outer protective casing just above the surface of the concrete apron.

The outer protective casings are lockable. The driller provided a lock for each protective casing cap. Both locks are keyed identically.

5.0 ANCILLARY REQUIREMENTS

5.1 Extraneous Material

The driller took reasonable care to help ensure that each boring was free from all materials other than those required for well construction. "Materials required for well construction" is defined in the specification to include polyvinyl chloride (PVC), sand, bentonite, Portland cement, and natural soil materials.

5.2 Decontamination

All drilling equipment (drillsteel, bits, casing materials), and any additional equipment that contacts subsurface formations, was decontaminated prior to on-site use and between consecutive well installations.

Steam cleaning with potable hot water and biodegradable detergent (Alconox) was used to clean the equipment and was conducted in a manner that appeared to minimize overspray and runoff.

5.3 Disposition of Waste Water

Not applicable.

5.4 Cleanup

The driller removed all refuse from each well site.

5.5 Health and Safety

Smoking was not permitted within 100 feet of the borehole.

6.0 WELL DEVELOPMENT

On September 21, 1995, Draper Aden personnel developed the two new monitoring wells to remove fine sediment by repeatedly surging and purging groundwater from the well. At a minimum, three well volumes of groundwater were removed from each monitoring well during well development.

7.0 SURVEY DATA

On November 8, 1995, Draper Aden personnel surveyed the locations and elevations of the groundwater monitoring wells and other relevant site features. In order to relate water levels to elevation, a reference point having a known elevation was selected as a bench mark.

Four points were surveyed at each monitoring well location: ground surface, the spike in the concrete pad, the top of the open protective steel casing, and the top of the PVC wellpipe. The surveyed points are presented on TABLE 2 (APPENDIX 1).

8.0 LIMITATIONS

This report has been prepared for the exclusive use of the referenced client for specific application to the subject site. This report should in no way be construed as our recommendation to either purchase, sell, or develop the project site. This report represents a statement of observations and shall not be regarded as certification of the presence of contamination or lack thereof.

The report was prepared in accordance with generally accepted standards of practice for environmental and geological services as conducted by engineering firms of similar size and having similar resources. No other warranty, either expressed or implied, is made.

Our conclusions and recommendations are based upon information provided to us by others, our observations, and professional judgement. To the best of our knowledge, information provided by others is true and correct, unless otherwise noted; however, Draper Aden Associates is not responsible for the verification of information provided by others.

Our on-site observations pertain only to specific locations at specific times on specific dates. Our observations and conclusions do not reflect variations in subsurface conditions that may exist between sampling locations, in unexplored areas of the site, or at times other than those represented by our observations.

It is the responsibility of the client to notify the appropriate government agencies of our findings, as may be required by law. It is not the responsibility of Draper Aden Associates to report these findings to any federal, state and/or local agency, including such conditions as may present a potential danger to public health, safety, or the environment.

APPENDIX 1
TABLES

TABLE 1
 CLIENT: FAUQUIER COUNTY SANITARY LANDFILL
 PROJECT: WELL COMPLETION REPORT
 WELL SPECIFICATIONS

WELL	TYPE	NORTHING	EASTING	D _s	TD _s	SAND	BNT	DEPTH _m	STICKUP	DEPTH _s	ELEV _{sp}	ELEV _{mp}
MW-1	2MW10	12388.44	10744.15	9.25	30	17	15	31.98	1.98	30	535.72	537.70
MW-2	2MW10	11106.81	10898.34	9.25	25	12	10	26.98 28.27	1.98 3.27	25	515.05 516.92	517.03 520.19
MW-3	2MW10	10761.46	11060.80	9.25	20	7	5	21.17	1.17	20	500.68	501.85
MW-4	2MW10	12055.70	9811.25	9.25	20	7.5	5.5	22.53	2.53	20	512.25	514.78
MW-5	2MW10	10198.48	10621.36	9.25	30	18	16	30.86	0.86	30	512.96	513.82
MW-6	2MW10	11642.43	9895.39	9.25	50	37.5	35.5	49.90	-0.10	50	547.90	547.80
MW-7	2MW10	12091.41	10503.4	9.25	25	12	10.7	26.92	1.92	25	539.49	541.41
MW-12	2MW10	10774.60	10503.40	7.2	39	27	25	41.15	2.15	39	527.26	529.41
MW-13	2MW10	10574.21	10688.00	9.25	42.0	27	25	41.80	1.58	40.22	522.50	524.44
MW-14	2MW10	10847.99	10951.50	9.25	37.0	20	17	35.0	1.82	33.18	505.28	507.23

NOTES:

- MW - monitoring well (prefix = pipe diameter, suffix = screen length)
- D_s - borehole diameter
- TD_s - total depth of borehole
- SAND - top of sandpack
- BNT - top of bentonite seal
- DEPTH_m - measured well depth (relative to measuring point)
- DEPTH_s - corrected well depth (relative to ground surface) = depth_m - stickup
- ELEV_{sp} - elevation: ground surface
- ELEV_{mp} - elevation: measuring point (top PVC)
- ◆ - replaces monitoring well MW-12
- ♣ - replaces monitoring well MW-2

1.98 \ 3.27 - original \ adjusted

Elevation in feet.

TABLE 2

CLIENT: FAUQUIER COUNTY SANITARY LANDFILL
PROJECT: WELL COMPLETION REPORT

SURVEY DATA

WELL	NORTHING	EASTING	ELEV _{gs}	ELEV _{cp}	ELEV _{oc}	ELEV _{mp}
MW-1	12388.44	10744.15	535.72	■	■	537.70
MW-2	11106.81	10898.34	516.92♣	517.12♣	520.91♣	520.19♣
MW-3	10761.46	9642.93	500.68	■	■	501.85
MW-4	12055.70	11060.80	512.25	■	■	514.78
MW-5	10198.48	9811.25	512.96	■	■	513.82
MW-6	11642.43	10621.36	547.90	■	■	547.80
MW-7	12091.41	9895.39	539.49	■	■	541.41
MW-12	10774.60	10503.40	527.26	■	■	529.41
MW-13♦	10574.21	10688.00	522.50	522.87	524.49	524.44
MW-14♣	10847.99	10951.50	505.28	505.42	506.84	507.23

NOTES:

- ELEV_{gs} - elevation of the ground surface
ELEV_{cp} - elevation of concrete pad or nail (spike) set in pad
ELEV_{oc} - elevation of the open protective casing
ELEV_{mp} - elevation of the measuring point (top PVC wellpipe)
■ - elevation data unavailable

All measurements in feet.

- ♣ - new data: well has been modified
♦ - replaces monitoring well MW-12
♣ - replaces monitoring well MW-2

survey.308

TABLE 3
CLIENT: FAUQUIER COUNTY SANITARY LANDFILL
PROJECT: WELL COMPLETION REPORT
STATIC WATER LEVELS
DATE: 09-21-95

WELL	ELEV_{mp}	DTW	STICKUP	DTW_c	ELEV_{gs}	ELEV_{gw}
MW-13 ♦	524.44	24.85	1.58	23.27	522.50	499.59
MW-14 ♣	507.23	7.85	1.82	6.03	505.28	499.38

NOTES:

ELEV_{mp} - elevation of measuring reference point (top of PVC wellpipe)
DTW - depth to water (relative to reference point)
DTW_c - depth to water (relative to ground surface)
ELEV_{gs} - elevation of the ground surface
ELEV_{gw} - elevation of the groundwater table

♦ - replaces existing monitoring well MW-12
♣ - replaces existing monitoring well MW-2

sw092195.308

APPENDIX 2
GEOLOGIC BORING LOGS

Project Number: **5308.28**

Client: Fauquier County			Drilling Company: Badger Drilling		
Project: Fauquier County Landfill			Driller: J. Davis		
Location: Rt. 674			Boring Method: 6.25" HSA		
North: 10574.2		East: 10688.0		Logged by: D. Lancaster	
Total Depth: 42.0'	Elev GS: 522.5	Reference: ground surface		Completion Date: September 13, 1995	

Samp ID	Blow Counts	N Value	Depth Scale	SOIL DESCRIPTION (ASTM)	Stratum Elev	PID (ppm)	WELL LOG	H2O	REMARKS
S1	6	20		V stiff, red-brown, CLAY, trace gravel (quartz, angular), plant fragments; moist. (CL)					RESIDUAL SOIL.
	7		2						
	13		4						
	14								
S2	8	17		Increasing sand.					
	8		6						
	9		8						
	8								
S3	3	12	10	MnOx-staining.					Grout.
	5		12						
	7		14						
	10								
S4	3	13		Stiff, red-yellow (layered), SILT, trace sand, extensive MnOx-staining, relict texture present; v moist. (ML)	507.5				SAPROLITE. Parent = gneiss.
	5		16						
	8		18						
	9								
S5	6	23	20	Becoming v stiff.					
	10		22						
	13								
	17								
								500.2	
									SWE: 09-15-95.

Project Number: **5308.28**

Client: Fauquier County			Drilling Company: Badger Drilling		
Project: Fauquier County Landfill			Driller: J. Davis		
Location: Rt. 674			Boring Method: 6.25" HSA		
North: 10574.2		East: 10688.0		Logged by: D. Lancaster	
Total Depth: 42.0'	Elev GS: 522.5	Reference: ground surface		Completion Date: September 13, 1995	

Samp ID	Blow Counts	N Value	Depth Scale	SOIL DESCRIPTION (ASTM)	Stratum Elev	PID (ppm)	WELL LOG	H2O	REMARKS	
S6	6 7 12 17	19	19	SILT.					Cuttings + bentonite.	
			26	Becoming wet.				497.5	DDW: 09-14-95.	
									495.5	Bentonite.
			28						493.5	Sandpack.
S7	6 12 18 10	30	30							
			32							
			34							
			36							
S8	4 14 20 31	34	36	Becoming hard, yellow-brown.					Screen: 0.01" slotted, 2" Sch 40 PVC.	
			38						Cuttings.	
			40						483.6 483.5 482.5	
			42						480.5	
S9	5 5 4 14	9	40	Becoming stiff.						
			42	Boring terminated at 42 feet. Groundwater encountered. Well MW-13 constructed at 39.5 feet.						
			44							
			46							

Project Number: **5308.28**

Client: Fauquier County			Drilling Company: Badger Drilling		
Project: Fauquier County Landfill			Driller: J. Davis		
Location: Rt. 674			Boring Method: 6.25" HSA		
North: 10848.0		East: 10951.5		Logged by: C. Campana	
Total Depth: 37.0'	Elev GS: 505.3	Reference: ground surface		Completion Date: September 14, 1995	

Samp ID	Blow Counts	N Value	Depth Scale	SOIL DESCRIPTION (ASTM)	Stratum Elev	PID (ppm)	WELL LOG	H2O	REMARKS
S1	8	16	0	V stiff, red-brown, SILT with v fine sand, trace gravel (quartz, angular), root fragments; moist. (ML)					RESIDUAL SOIL.
	9		1						
	7		2						
	5		3						
			4						
S2	1	5	5	Becoming mottled (lt gr, y, r-br, br) with MnOx-filled joints.				▼	SWE: 09-15-95.
	2		6						
	3		7						
	4		8						
S3	3	19	10	Becoming mottled (r-br, br) with extensive MnOx-stained joints.					Grout.
	9		11						
	10		12						
	14		14						
S4	5	19	16	V stiff, mottled (y-br, r-br, r-blk), micaceous, fine sandy SILT with MnOx-filled joints (< 2 mm) and MnOx-staining; moist. (SM)	490.3			488.3	SAPROLITE. Parent = schist.
	9		17						
	10		18						
	13		19						
S5	6	15	20	Becoming stiff, mottled (or-br, y-br, tan) with MnOx planes, indistinct relict texture; wet.				487.3	DDW: 09-15-95.
	7		21						
	8		22						
	8		23						
			22					482.3	Sandpack.

Project Number: **5308.28**

Client: Fauquier County			Drilling Company: Badger Drilling		
Project: Fauquier County Landfill			Driller: J. Davis		
Location: Rt. 674			Boring Method: 6.25" HSA		
North: 10848.0		East: 10951.5		Logged by: C. Campana	
Total Depth: 37.0'	Elev GS: 505.3	Reference: ground surface		Completion Date: September 14, 1995	

Samp ID	Blow Counts	N Value	Depth Scale	SOIL DESCRIPTION (ASTM)	Stratum Elev	PID (ppm)	WELL LOG	H2O	REMARKS
S6	12	46		Sandy SILT. Becoming hard, increasing gravel (angular, > 5 mm).					Screen: 0.01" slotted, 2" Sch 40 PVC.
	18		26						
	28		28						
	43								
S7	12	34	30						
	16								
	18								
	19								
S8	12	32	34					472.4 472.3	Sandpack.
	16								
	16								
	20								
			36					470.3	Cuttings.
			38	Boring terminated at 37 feet. Groundwater encountered. Well MW-14 constructed at 33 feet.	468.3			468.3	
			40						
			42						
			44						
			46						



COMMONWEALTH of VIRGINIA

IN COOPERATION WITH THE
STATE DEPARTMENT OF HEALTH

Fauquier County Health Department

ENVIRONMENTAL HEALTH
320 HOSPITAL DRIVE - SUITE 21
WARRENTON, VIRGINIA 20186

(540) 347-6363

May 30, 2007

Mr. Charles Cooper
Building Official
40 Culpeper Street
Warrenton, Va. 20186

RE: Temporary Pit Privy – Map Reference 6983-81-0145 – 6438 College St., Warrenton, Va.

Dear Sir :

This letter is written to confirm receipt of written contracts for a temporary privy, bottled water and waterless hand cleaner to be used by C & D Recycle Center.

This office hereby approves the use of the temporary trailer for the period of time specified by the County of Fauquier.

If this office can be of any further assistance, please call us at 347-6375.

Sincerely,

A handwritten signature in black ink that reads "John R. Largent".

John R. Largent
Environmental Health Supervisor

FAUQUIER CO ENVIRONMENTAL HEALTH DEPT.

TEMPORARY PRIVY APPLICATION

Name of Event or Project: CT D RECYCLE CENTER

Coordinator's Name: DON NUCKOLS

Coordinator's Address: 6438 COLLEGE ST, WARRENTON, OR 20187

P.I.N. # 6983-81-0145

Name of Privy Company: ACTON MOBIL INDUSTRIES

Number of Privies: (1)

(Va Regs require 1 Privy per 100 people for Mass Gathering)
1 Privy per 25 People for Construction Site)

Fees:

Administrative fee: \$35.00-includes 1st Privy

\$15.00 each for Privies 2-20 (Maximum of \$100.00)

\$15.00 each for Privies 21 and Greater

Signature of Property Owner: _____ Date: _____

Signature of Coordinator-Agent: D. L. Jones Date: 5/17/07

Date Application Evaluated and approved: _____

EHS Supervisor John F. Largent

FAUQUIER CO ENVIRONMENTAL HEALTH DEPT.

TEMPORARY PRIVY APPLICATION

Name of ~~Event~~ or Project: CY D RECYCLE CENTER

Coordinator's Name: Dow Nuckols *cell* 340-270-5575

Coordinator's Address: 6438 COLLEGE ST, WARRENTON, VA 20187

P.I.N. # 6983-81-0145

Name of Privy Company: ACTON MOBIL INDUSTRIES

Number of Privies: (1)

(Va Regs require 1 Privy per 100 people for Mass Gathering)
1 Privy per 25 People for Construction Site)

Fees:
Administrative fee: \$35.00-includes 1st Privy

\$15.00 each for Privies 2-20 (Maximum of \$100.00)
\$15.00 each for Privies 21 and Greater

Signature of Property Owner: _____ Date: _____

Signature of Coordinator-Agent Dodd L. Jones Date: 5/17/07

Date Application Evaluated and approved: _____

EHS Supervisor _____

4-13-93

Item b.

Memo to file on one bedroom
cottage -

Item E.

building sewer exits back
of cottage and does not appear to
head towards old cesspool.
Apparently, it is served by a
system on the other side of
the two houses.

MUC

679

948

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF HEALTH

MEMO SHEET

Date _____

Time: _____

To _____

- | | | |
|---|---|--------------------------------------|
| <input type="checkbox"/> Initial and return | <input type="checkbox"/> Please call | <input type="checkbox"/> Information |
| <input type="checkbox"/> Handle | <input type="checkbox"/> Reply for Sig. | <input type="checkbox"/> Comments |
| <input type="checkbox"/> File | <input type="checkbox"/> As discussed | <input type="checkbox"/> Approval |
| <input type="checkbox"/> Discuss with me | <input type="checkbox"/> As requested | <input type="checkbox"/> Signature |

N13800000

Rev 2/90

680

Signature

Item E.

PO 7/8/16

Chuck,

Mr. Escher called -
 He said he can get
 drafted in the
 right place but
 may have to
 move septic tank
 on cottage to
 (L) hand side instead
 of (R) hand side
 because of plumbing
 in house and
 therefore would
 have more dis. box
 to (L) on cottage
 instead of (R) - he
 said that would be
 ok if all regs are
 met. I hope
 you

681

Application for a Sewage Disposal System Construction ^{Repair}

Item b.

Commonwealth of Virginia
Department of Health

For Department Use Only

Health Department
Identification Number SD-93-143
Map Reference Subd.

Fauquier County Health Department

Date Received 4-6-93

To Be Completed By The Applicant

Type sewage system: New Repair Expanded Conditional
FHA/VA yes no

Owner B. G. Sander Trustee Address Rt 3 Box 1320 Phone 347-1097
Gainesville VA 22065

Agent _____ Address _____ Phone _____

Directions to Property 295 @ College Road, to back of property

Subdivision Conal Farm Section _____ Block _____ Lot _____

Other Property Identification (Lee's Crossing) 82/53

Dimensions/size of Lot/Property 235 Acres (old lots 37 & 38)

Other Application Information

I. Building/facility New Existing
Intermittent Use Yes No If yes, describe: _____

II. Residential Use Yes No
Termite Treatment Yes No
 Single Family Multifamily Number of Units 1 Number of Bedrooms 1
Basement Yes No
Fixtures in Basement Yes No

III. Commercial Use Yes No Describe: _____

Commercial/Wastewater Yes No Number of Patrons _____ Number of Employees _____
If yes, give volumes and describe _____

IV. Water Supply: Public Private New Existing Describe: _____

V. Proposed installation: Septic tank and drainfield Other
If other, describe _____

SITE PLAN Attach a site plan (rough sketch) showing dimensions of property, proposed and/or existing structures and driveways, underground utilities, adjacent soil absorption systems, bodies of water, drainage ways, and wells and springs within 200 feet radius of the center of the proposed building or drainfield. Distances may be paced or estimated.

The property lines and building location are clearly marked and the property is sufficiently visible to see the topography. I give permission to the Department to enter onto the property described for the purpose of processing this application.

Signature of owner/agent

4/6/93 Date

SD 93 143

Application for a Sewage Disposal System Construction Permit

Item b.

Commonwealth of Virginia
Department of Health

For Department Use Only

Health Department
Identification Number SD-93-143
Map Reference Subd.

Fauquier County Health Department

Date Received 4-6-93

To Be Completed By The Applicant

Type sewage system: New Repair Expanded Conditional
FHA/VA yes no

Owner B. G. Sander Trustee Address Rt 3 Box 1320 Phone 347-1097
Gainesville VA 22065

Agent _____ Address _____ Phone _____

Directions to Property 295 @ College Road, to back of property

Subdivision Conal Farm Section _____ Block _____ Lot _____

Other Property Identification (Lee's Crossing) 82/53

Dimensions/size of Lot/Property 235 Acres (old lots 37 & 38)

Other Application Information

I. Building/facility New Existing
Intermittent Use Yes No If yes, describe: _____

II. Residential Use Yes No
Termite Treatment Yes No
 Single Family Multifamily Number of Units 1 Number of Bedrooms 1
Basement Yes No
Fixtures in Basement Yes No

III. Commercial Use Yes No Describe: _____

Commercial/Wastewater Yes No Number of Patrons _____ Number of Employees _____
If yes, give volumes and describe _____

IV. Water Supply: Public Private New Existing Describe: _____

V. Proposed Installation: Septic tank and drainfield Other
If other, describe _____

SITE PLAN Attach a site plan (rough sketch) showing dimensions of property, proposed and/or existing structures and driveways, underground utilities, adjacent soil absorption systems, bodies of water, drainage ways, and wells and springs within 200 feet radius of the center of the proposed building or drainfield. Distances may be paced or estimated.

The property lines and building location are clearly marked and the property is sufficiently visible to see the topography. I give permission to the Department to enter onto the property described for the purpose of processing this application.

Signature of owner/agent

4/6/93
Date

952

SD 93 143

Application for a Sewage Disposal System Construction P

Item b.

Commonwealth of Virginia
Department of Health

For Department Use Only

Health Department
Identification Number SD-93-113
Map Reference Subd.

Fauquier County Health Department

Date Received 4-6-93

To Be Completed By The Applicant

Type sewage system: New Repair Expanded Conditional
FHA/VA yes no

Owner B. G. Sander Trustee Address Rt 3 Box 1320 Phone 347-1097
Gainesville VA 22065

Agent _____ Address _____ Phone _____

Directions to Property 295 @ College Road, to back of property

Subdivision Coral Farm Section _____ Block _____ Lot _____

Other Property Identification (Lee's Crossing) 37/53

Dimensions/size of Lot/Property 235 Acres (old lots 37 & 38)

Other Application Information

I. Building/facility New Existing
Intermittent Use Yes No If yes, describe: _____

II. Residential Use Yes No
Termite Treatment Yes No
 Single Family Multifamily Number of Units 1 Number of Bedrooms 1
Basement Yes No
Fixtures in Basement Yes No

III. Commercial Use Yes No Describe: _____

Commercial/Wastewater Yes No Number of Patrons _____ Number of Employees _____
If yes, give volumes and describe _____

IV. Water Supply: Public New Describe: _____
 Private Existing _____

V. Proposed Installation: Septic tank and drainfield Other
If other, describe _____

SITE PLAN Attach a site plan (rough sketch) showing dimensions of property, proposed and/or existing structures and driveways, underground utilities, adjacent soil absorption systems, bodies of water, drainage ways, and wells and springs within 200 feet radius of the center of the proposed building or drainfield. Distances may be paced or estimated.

The property lines and building location are clearly marked and the property is sufficiently visible to see the topography. I give permission to the Department to enter onto the property described for the purpose of processing this application.

Signature of owner/agent

4/6/93
Date

953

Sewage Disposal System Construction Permit

Commonwealth of Virginia
Department of Health

Fauquier

Health Department



Health Department

Identification Number SD 93 143

Map Reference subd

General Information

New Repair Expanded Conditional FHA VA Case No. _____
 Based on the application for a sewage disposal system construction permit filed in accordance with Section 3.13.01, a construction permit is hereby issued to:
 Owner Bj Sander Trustee Telephone _____
 Address _____
 For a Type I Sewage disposal system which is to be constructed on/at 295 @ LFCC
 Subdivision Reed Crossing Section/Block _____ Lot _____
 Actual or estimated water use 150 gpd 1 BR

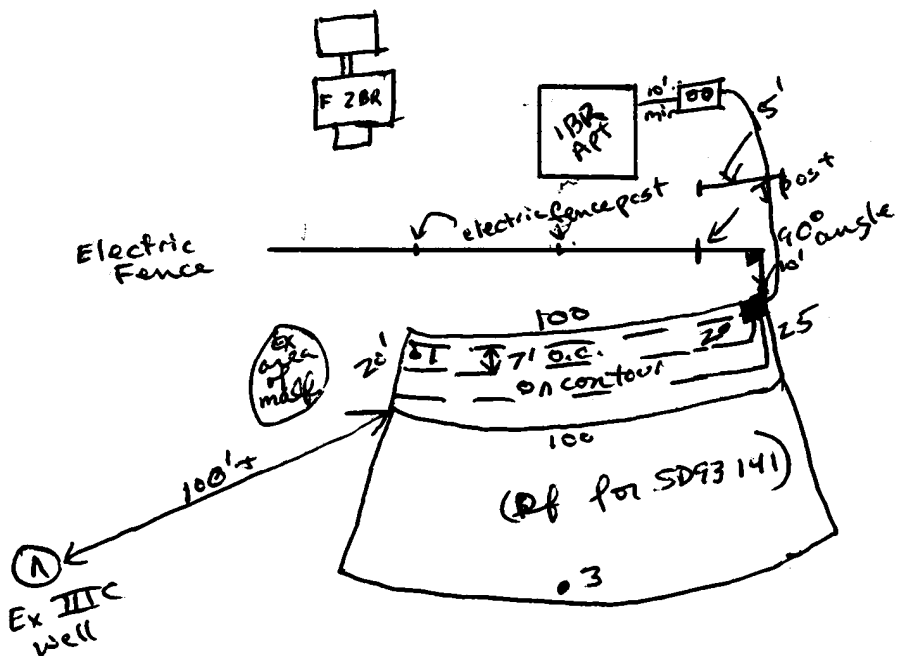
DESIGN	NOTE: INSPECTION RESULTS
Water supply, existing: (describe) <u>III C</u>	Water supply location: Satisfactory yes <input type="checkbox"/> no <input type="checkbox"/> comments _____ G. W. 2 Received: yes <input type="checkbox"/> no <input type="checkbox"/> not applicable <input type="checkbox"/>
To be installed: class _____ cased _____ <u>grouted</u> <u>A</u>	
Building sewer: <u>EXISTING</u> I.D. PVC 40, or equivalent. Slope 1.25" per 10' (minimum). <input checked="" type="checkbox"/> Other <u>sch 40 to DB Box</u>	Building sewer: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Septic tank: Capacity <u>250</u> gals. (minimum). <input checked="" type="checkbox"/> Other <u>No garbage Disposals</u>	Pretreatment unit: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Inlet-outlet structure: <u>8" in 18" out</u> PVC 40, 4" tees or equivalent. <input checked="" type="checkbox"/> Other <u>stubs 1" below lids</u>	Inlet-outlet structure: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Pump and pump station: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> describe and show design. if/yes: _____	Pump & pump station: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Gravity mains: <u>6"</u> or larger I.D., minimum 6" fall per 100', 1500 lb. crush strength or equivalent. <input type="checkbox"/> Other _____	Conveyance method: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Distribution box: Precast concrete with <u>4</u> ports. <input checked="" type="checkbox"/> Other <u>bedded on 4" concrete pad</u>	Distribution box: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Header lines: Material: 4" I.D. 1500 lb. crush strength plastic or equivalent from distribution box to 2' into absorption trench. Slope 2" minimum. <input type="checkbox"/> Other _____	Header lines: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Percolation lines: Gravity 4" plastic 1000 lb. per foot bearing load or equivalent, slope 2" 4" (min. max.) per 100'. <input checked="" type="checkbox"/> Other <u>cover w/ untreated paper</u>	Percolation lines: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Absorption trenches: Square ft. required <u>600</u> ; depth from ground surface to bottom of trench <u>30"</u> ; aggregate size <u>1/2 to 1/2"</u> Trench bottom slope <u>2 to 4 inches per 100'</u> ; center to center spacing <u>7'</u> ; trench width <u>2'</u> Depth of aggregate <u>13"</u> ; Trench length <u>100</u> ; Number of trenches <u>3</u>	Absorption trenches: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory
Date _____ Inspected and approved by: _____ Sanitarian	

Schematic drawing of sewage disposal system and topographic features.

Show the lot lines of the building lot and building site, sketch of property showing any topographic features which may impact on the design of the system, all existing and/or proposed structures including sewage disposal systems and wells within 100 feet of sewage disposal system and reserve area. The schematic drawing of the sewage disposal system shall show sewer lines, pretreatment unit, pump station, conveyance system, and subsurface soil absorption system, reserve area, etc. When a nonpublic drinking water supply is to be located on the same lot show all sources of pollution within 100 feet.

Sec 82 Per 53

The information required above has been drawn on the attached copy of the sketch submitted with the application. Attach additional sheets as necessary to illustrate the design.



- * Drawing not to scale.
- * Permit void if building location interferes with approved drainfield location.
- * Designed for basement plumbing? YES NO
- * Drainfield to be 100+' from Class IIIC wells and 50' from all Class IIIA&B wells.
- * Install 3-100 lines, ON CONTOUR, in 2'-wide trenches, on 7' centers.
- * Install trenches 30" deep.
- * Smooth-walled header pipes recommended.
- * Extend header pipes 24" into gravel.
- * Use single size gravel 0.5" to 1.5" diam.
- * No parking or driving on drainfield system
- * Divert roof drains away from drainfield.
- * No trees within 10' of system.
- * Pump septic tank every 3 - 5 years.

WELL REQUIREMENTS

- * Install Class II well 10'+ away from drainfield, reserve, treated foundation, and all sources of contamination.
- * All well grouts to be witnessed by environmental health specialist.
- * Water to be tested for potability.

** see plat for reserve*

The sewage disposal system is to be constructed as specified by the permit or attached plans and specifications .

This sewage disposal system construction permit is null and void if (a) conditions are changed from those shown on the application (b) conditions are changed from those shown on the construction permit.

No part of any installation shall be covered or used until inspected, corrections made if necessary, and approved, by the local health department or unless expressly authorized by the local health dept. Any part of any installation which has been covered prior to approval shall be uncovered, if necessary, upon the direction of the Department.

Date: 4/7/93 Issued by: [Signature]

Date: 4/7/93 Reviewed by: [Signature]
Supervisory Sanitarian

This Construction Permit Valid until
4/7/94

If FHA or VA financing

Reviewed by Date _____ Date _____

C.H.S. 202B Revised 6/84 Supervisory Sanitarian II-2A Regional Sanitarian 955

Sewage Disposal System Construction Permit

Commonwealth of Virginia
Department of Health



Health Department
Identification Number SD 93 141
Map Reference subc

Fauquier Health Department

General Information

New Repair Expanded Conditional FHA VA Case No. _____
 Based on the application for a sewage disposal system construction permit filed in accordance with Section 3.13.01, a construction permit is hereby issued to:
 Owner Bj Sewer Trustee Telephone _____
 Address _____
 For a Type I Sewage disposal system which is to be constructed on/at 295 CCA LFCC
 Subdivision Beach Class Section/Block _____ Lot _____
 Actual or estimated water use 150 gpd 1 BR

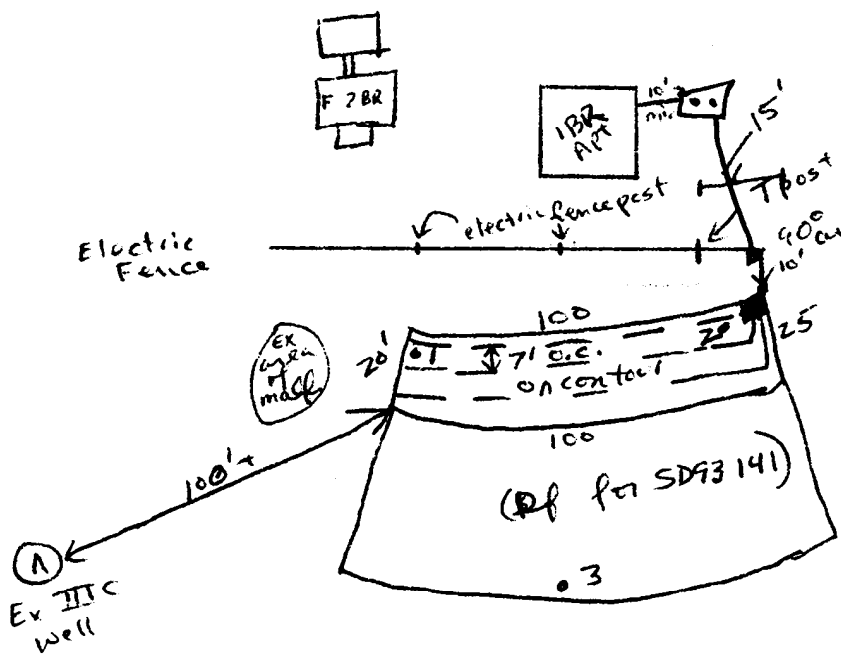
DESIGN	NOTE: INSPECTION RESULTS
Water supply, existing: (describe) <u>III C</u>	Water supply location: Satisfactory yes <input type="checkbox"/> no <input type="checkbox"/> comments _____ G. W. 2 Received: yes <input type="checkbox"/> no <input type="checkbox"/> not applicable <input type="checkbox"/>
To be installed: class <u>N/A</u> cased <u>grouted</u>	Building sewer: yes <input type="checkbox"/> no <input type="checkbox"/> comments _____ Satisfactory
Building sewer: <u>EXISTING</u> I.D. PVC 40, or equivalent. Slope 1.25" per 10' (minimum). <input checked="" type="checkbox"/> Other <u>sch 40 to DB Box</u>	Pretreatment unit: yes <input type="checkbox"/> no <input type="checkbox"/> comments _____ Satisfactory
Septic tank: Capacity <u>750</u> gals. (minimum). <input checked="" type="checkbox"/> Other <u>Negative Desposits</u>	Inlet-outlet structure: yes <input type="checkbox"/> no <input type="checkbox"/> comments _____ Satisfactory
Inlet-outlet structure: <u>8" x 18" end</u> PVC 40, 4" tees or equivalent. <input checked="" type="checkbox"/> Other <u>sub T's 1" rubber lids</u>	Pump & pump station: yes <input type="checkbox"/> no <input type="checkbox"/> comments _____ Satisfactory
Pump and pump station: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> describe and show design. if yes: _____	Conveyance method: yes <input type="checkbox"/> no <input type="checkbox"/> comments _____ Satisfactory
Gravity mains: <u>6"</u> or larger I.D., minimum 6" fall per 100', 1500 lb. crush strength or equivalent. <input type="checkbox"/> Other _____	Distribution box: yes <input type="checkbox"/> no <input type="checkbox"/> comments _____ Satisfactory
Distribution box: Precast concrete with <u>4+</u> ports. <input checked="" type="checkbox"/> Other <u>Bulld on 4" concrete pad</u>	Header lines: yes <input type="checkbox"/> no <input type="checkbox"/> comments _____ Satisfactory
Header lines: Material: 4" I.D. 1500 lb. crush strength plastic or equivalent from distribution box to 2' into absorption trench. Slope 2" minimum. <input type="checkbox"/> Other _____	Percolation lines: yes <input type="checkbox"/> no <input type="checkbox"/> comments _____ Satisfactory
Percolation lines: Gravity 4" plastic 1000 lb. per foot bearing load or equivalent, slope 2" 4" (min. max.) per 100'. <input checked="" type="checkbox"/> Other <u>water w/ vented pipe</u>	Absorption trenches: yes <input type="checkbox"/> no <input type="checkbox"/> comments _____ Satisfactory
Absorption trenches: Square ft. required <u>600</u> ; depth from ground surface to bottom of trench <u>30"</u> ; aggregate size <u>1/2 to 1 1/2"</u> Trench bottom slope <u>2 to 4 inches per 100'</u> ; center to center spacing <u>7'</u> ; trench width <u>2'</u> Depth of aggregate <u>13"</u> ; Trench length <u>100</u> ; Number of trenches <u>3</u>	Date _____ Inspected and approved by: _____ Sanitarian

Schematic drawing of sewage disposal system and topographic features.

Show the lot lines of the building lot and building site, sketch of property showing any topographic features which may impact on the design of the system, all existing and/or proposed structures including sewage disposal systems and wells within 100 feet of sewage disposal system and reserve area. The schematic drawing of the sewage disposal system shall show sewer lines, pretreatment unit, pump station, conveyance system, and subsurface soil absorption system, reserve area, etc. When a nonpublic drinking water supply is to be located on the same lot show all sources of pollution within 100 feet.

Sec 82 Per 93

The information required above has been drawn on the attached copy of the sketch submitted with the application. Attach additional sheets as necessary to illustrate the design.



- * Drawing not to scale.
- * Permit void if building location interferes with approved drainfield location.
- * Designed for basement plumbing? YES NO
- * Drainfield to be 100' from Class III C wells and 50' from all Class IIIA&B wells.
- * Install 3-100 lines, ON CONTOUR, in 2'-wide trenches, on 7' centers.
- * Install trenches 30" deep.
- * Smooth-walled header pipes recommended.
- * Extend header pipes 24" into gravel.
- * Use single size gravel 0.5" to 1.5" diam.
- * No parking or driving on drainfield system
- * Divert roof drains away from drainfield.
- * No trees within 10' of system.
- * Pump septic tank every 3-5 years.

WELL REQUIREMENTS

- * Install Class III well 10' away from drainfield, reserve, treated foundation, and all sources of contamination.
- * All well grouts to be witnessed by environmental health specialist.
- * Water to be tested for potability.

* see plat for reserve

The sewage disposal system is to be constructed as specified by the permit or attached plans and specifications .

This sewage disposal system construction permit is null and void if (a) conditions are changed from those shown on the application (b) conditions are changed from those shown on the construction permit.

No part of any installation shall be covered or used until inspected, corrections made if necessary, and approved, by the local health department or unless expressly authorized by the local health dept. Any part of any installation which has been covered prior to approval shall be uncovered, if necessary, upon the direction of the Department.

Date: 4/7/93 Issued by: _____

Date: 4/17/93 Reviewed by: John K. Jargard
Supervisory Sanitarian

This Construction Permit Valid until 4/7/94

If FHA or VA financing

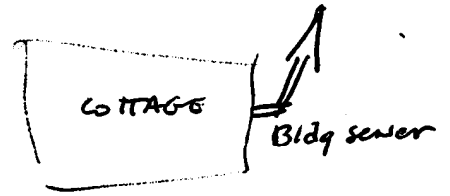
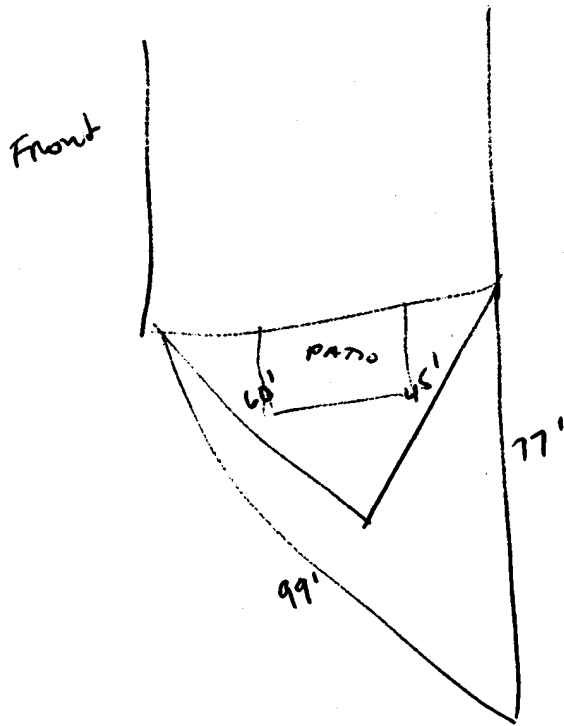
Reviewed by Date _____ Date _____

ROUTE SHEET

PERMIT I.D. NO. SD-93-143

Tag Sheet

	<u>Initials</u>	<u>Date</u>
APPLICATION RECEIVED:	<u>ASC</u>	<u>4/7/93</u>
APPLICATION REVIEWED:	<u>ASC</u>	<u>4/7/93</u>
FEE DETERMINATION:	<u>ASC</u>	<u>4/7/93</u>
ASSIGNED TO:	<u>CAJ</u>	<u>4/7/93</u>
SITE VISIT SCHEDULED:	<u>CAJ</u>	<u>4/6/93</u>
SITE VISIT MADE:	<u>CAJ</u>	<u>4/6/93</u>
FOLLOW-UP VISIT:		
ISSUE/DENY DRAFTED:	<u>CAJ</u>	<u>4/7/93</u>
ISSUE/DENY REVIEWED:	<u>GRJ</u>	<u>4/14/93</u>
ISSUE/DENY COUNTERSIGNED:	<u>GRJ</u>	<u>4/14/93</u>
ISSUE/DENY - MAILED/PICKED UP	<u>CAJ</u>	<u>4/8/93</u>



Sewage Disposal System Construction Permit

Commonwealth of Virginia
Department of Health



Health Department
Identification Number SD-93-655
Map Reference Subd

Fauquier Co. Env. Health Department

General Information

New Repair Expanded Conditional FHA VA Case No. _____

Based on the application for a sewage disposal system construction permit filed in accordance with Section 3.13.01, a construction permit is hereby issued to:

Owner Fauquier County Solid Waste Telephone (703) 347-6800

Address 781 W Lee St., Suion, Warrenton, VA 22186

For a Type I Sewage disposal system which is to be constructed on/at 295 G LFCC/GCC entrance to landfill pad.

Subdivision Coral Farm Land Section/Block _____ Lot _____

Actual or estimated water use 150 gpd 1 BR EQUIVALENT

DESIGN	NOTE: INSPECTION RESULTS
Water supply, existing: (describe) <u>N/A</u> <small>signs must be posted at all spigots stating Non-Potable</small> To be installed: class <u>III B</u> Non Potable <small>grouted & witnessed by</small> cased <u>50 min to Rock</u> grouted <u>50 min to Rock</u>	Water supply location: Satisfactory yes <input type="checkbox"/> no <input type="checkbox"/> comments _____ D.G. W. 2 Received: yes <input type="checkbox"/> no <input type="checkbox"/> not applicable <input type="checkbox"/>
Building sewer: <u>Install 4" of 4" I.D. PVC 40, or equivalent.</u> Slope <u>1.25" per 10' (minimum).</u> <input type="checkbox"/> Other <u>smooth pipe to DB</u>	Building sewer: yes <input type="checkbox"/> no <input type="checkbox"/> comments _____ Satisfactory
Septic tank: Capacity <u>1000</u> gals. (minimum). <input checked="" type="checkbox"/> Other <u>No garbage Disposals</u>	Pretreatment unit: yes <input type="checkbox"/> no <input type="checkbox"/> comments _____ Satisfactory
Inlet-outlet structure: <u>8" in 18" out PVC 40, 4" tees or equivalent.</u> <input checked="" type="checkbox"/> Other <u>Stub T, 1" Below Lids</u>	Inlet-outlet structure: yes <input type="checkbox"/> no <input type="checkbox"/> comments _____ Satisfactory
Pump and pump station: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> describe and show design. if yes: _____	Pump & pump station: yes <input type="checkbox"/> no <input type="checkbox"/> comments _____ Satisfactory
Gravity mains: <u>4"</u> or larger I.D., minimum 6" fall per 100', 1500 lb. crush strength or equivalent. <input type="checkbox"/> Other _____	Conveyance method: yes <input type="checkbox"/> no <input type="checkbox"/> comments _____ Satisfactory
Distribution box: Precast concrete with <u>5+</u> ports. <input checked="" type="checkbox"/> Other <u>Bed on 4" concrete PAD</u>	Distribution box: yes <input type="checkbox"/> no <input type="checkbox"/> comments _____ Satisfactory
Header lines: Material: 4" I.D. 1500 lb. crush strength plastic or equivalent from distribution box to 2' into absorption trench. Slope 2" minimum. <input type="checkbox"/> Other _____	Header lines: yes <input type="checkbox"/> no <input type="checkbox"/> comments _____ Satisfactory
Percolation lines: Gravity 4" plastic 1000 lb. per foot bearing load or equivalent, slope 2" 4" (min. max.) per 100'. <input type="checkbox"/> Other _____	Percolation lines: yes <input type="checkbox"/> no <input type="checkbox"/> comments _____ Satisfactory
Absorption trenches: Square ft. required <u>672</u> ; depth from ground surface to bottom of trench <u>48"</u> ; aggregate size <u>1/2 to 1 1/2</u> ; Trench bottom slope <u>2-4" per 100'</u> ; center to center spacing <u>9'</u> ; trench width <u>3'</u> Depth of aggregate <u>13"</u> ; Trench length <u>56'</u> ; Number of trenches <u>4</u>	Absorption trenches: yes <input type="checkbox"/> no <input type="checkbox"/> comments _____ Satisfactory
Date _____ Inspected and approved by: _____ <div style="text-align: right;">Sanitarian</div>	

Health Department
Identification Number

SD-93-655

Schematic drawing of sewage disposal system and topographic features.

PAGE 2 OF 2

Show the lot lines of the building lot and building site, sketch of property showing any topographic features which may impact on the design of the system, all existing and/or proposed structures including sewage disposal systems and wells within 100 feet of sewage disposal system and reserve area. The schematic drawing of the sewage disposal system shall show sewer lines, pretreatment unit, pump station, conveyance system, and subsurface soil absorption system, reserve area, etc. When a nonpublic drinking water supply is to be located on the same lot show all sources of pollution within 100 feet.

IBR EQUIV., 150gpd

SEWAGE + Non-POTABLE WELL

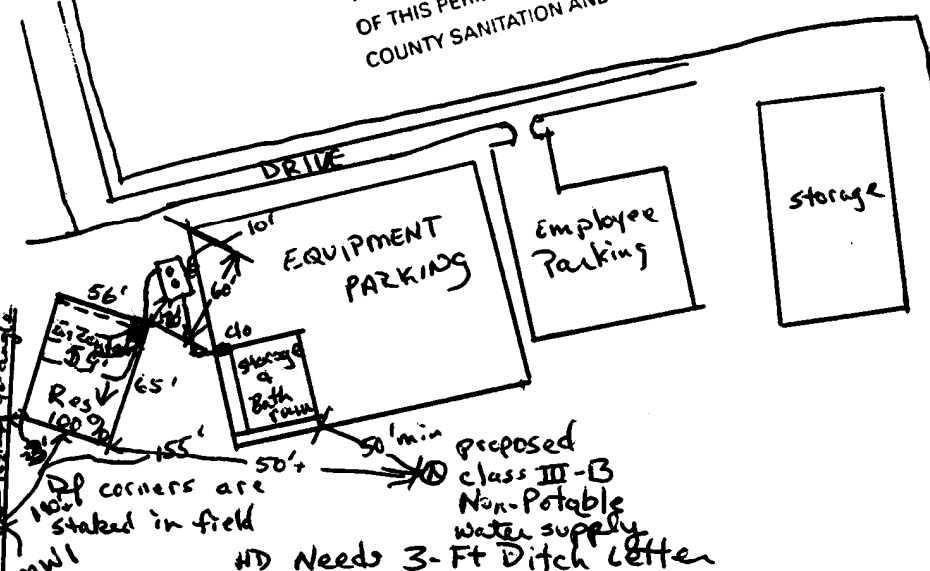
CORRAL FARM LANDFILL

The information required above has been drawn on the attached copy of the sketch submitted with the application. Attach additional sheets as necessary to illustrate the design.

SEWAGE SYSTEM IS FOR
EQUIPMENT WASH-DOWN
AND RESTROOM FACILITIES
ONLY. WATERLESS HAND-CLEANERS
AND BOTTLED DRINKING
WATER REQUIRED.

LANDFILL
CELLS

THE SYSTEM TO BE INSTALLED BY THE AUTHORITY
OF THIS PERMIT MUST CONFORM TO THE FAUQUIER
COUNTY SANITATION AND/OR WELL ORDINANCES.



SEWAGE PERMIT REQUIREMENTS

- * Drawing not to scale.
- * Permit void if building location interferes with approved drainfield location.
- * Designed for basement plumbing? YES NO
- * Drainfield to be 100+ feet from Class IIIC wells and 50 feet from all Class IIIA&B wells.
- * Install 4-56" lines, ON CONTOUR, in 3'-wide trenches, on 9' centers.
- * Install trenches 48" deep.
- * Smooth-walled header pipes recommended.
- * Extend header pipes 24" into gravel.
- * Use single size gravel 0.5" to 1.5" diam.
- * No parking or driving on drainfield system
- * Divert roof drains away from drainfield.
- * No trees within 10' of system.
- * Pump septic tank every 3 - 5 years.

WELL PERMIT REQUIREMENTS

- * Install Class III B well 50-feet + away from drainfield, reserve, treated foundation and all sources of contamination.
- * All well grouts to be witnessed by environmental health specialist.
- * ~~Water is for equipment cleaning + toilet-flushing only.~~
- * Water is for equipment cleaning + toilet-flushing only.

The sewage disposal system is to be constructed as specified by the permit or attached plans and specifications .

This sewage disposal system construction permit is null and void if (a) conditions are changed from those shown on the application (b) conditions are changed from those shown on the construction permit.

No part of any installation shall be covered or used until inspected, corrections made if necessary, and approved, by the local health department or unless expressly authorized by the local health dept. Any part of any installation which has been covered prior to approval shall be uncovered, if necessary, upon the direction of the Department.

Date: 12/7/93 Issued by: _____

Date: 12/7/93 Reviewed by: _____
Supervisory Sanitarian

This Construction Permit Valid until 12/31/94

If FHA or VA financing

Reviewed by Date _____ Date _____

**Commonwealth of Virginia
Application for a Sewage Disposal and/or Water Supply Permit**

Item b.

Health Department ID SD 93-655

To Be Completed By The Applicant

Type of sewage system: New Repair Expanded Conditional
 FHA/VA yes no Case No. _____

Owner Fauquier County Solid Waste Dept. Address 76 W. Lees St Phone 703-347-6500
Lawrence, VA

Agent Ellis D. Brigham Address same as above Phone 347-6120
Solid Waste Manager

Directions of Property lot 295 Howell Farm

Subdivision _____ Section _____ Block _____ Lot _____

Other Property Identification Howell Farm Landfill

Dimension/size of Lot/Property N/A

Other Application Information

I. Building/facility New Existing
 Intermittent Use Yes No If yes, describe _____

II. Residential Use Yes No
 Termite Treatment Yes No
 Single Family Multi-family
 (Number of Bedrooms _____) (Number of Units _____)

Basement Yes No
 Fixtures in Basement Yes No

III. Commercial Use Yes No Describe: _____

Commercial/Wastewater Yes No Number of Patrons _____
 Number of Employees 7

If yes, give volumes and describe Toile facility = Sept. Waste tank

IV. Water Supply: Public New Existing
 Private New Existing
 Describe: Non-Potable 3TB

V. Proposed Sewage Disposal Method:

Onsite Sewage Disposal System: Septic Tank Drainfield LPD Mound Other

Public Sewerage System

Attach a site plan (rough sketch) showing dimensions of property, proposed and/or existing structures and driveways, underground utilities, adjacent soil absorption system, bodies of water, drainage ways, and wells and springs within 200 feet radius of the center of the proposed well or drainfield. Distances may be paced or estimated.

The property lines and building location are clearly marked and the property is sufficiently visible to see the topography. I give permission to the Department to enter onto the property described for the purpose of processing this application.

[Signature] Signature of Owner/Agent 11/12/93 Date

Soil Evaluation Form

Commonwealth of Virginia
Department of Health

Health Department
Identification Number SD-93-655
Tax Map Number subd.

General Information

Date 6/3/93 Fauquier Co Env Health Department
Applicant Drapen Aden Associates Telephone No. _____
Address _____
Owner County of Fauquier Address Solid Waste Dept. 78 E Lee St.
Location Warrenton VA
Subdivision Coccard Farm Landfill Block/Section _____ Lot _____

Soil Information Summary

1. Position in landscape satisfactory Yes No Describe sloping Ridge top
2. Slope 2-3 %
3. Depth to rock/impervious strata Max. _____ Min. _____ None
4. Depth to seasonal water table (gray mottling or gray color) No Yes _____ inches
5. Free water present No Yes _____ range in inches
6. Soil percolation rate estimated Yes No Texture group I II III IV
Estimated rate 45-55 min/inch
7. Percolation test performed Yes No Number of percolation test holes _____
Depth of percolation test holes _____
Average percolation rate _____
Name and title of evaluator: CA Jackson Jr EMS 05194 w/ Cien McCleary SS.
Signature: [Signature]

Department Use

Site Approved: Drainfield to be placed at 48" depth at site designated on permit.
 Site Disapproved:
Reasons for rejection:
1. Position in landscape subject to flooding or periodic saturation.
2. Insufficient depth of suitable soil over hard rock.
3. Insufficient depth of suitable soil to seasonal water table.
4. Rates of absorption too slow.
5. Insufficient area of acceptable soil for required drainfield, and/or Reserve Area.
6. Proposed system too close to well.
7. Other Specify _____

Soil Evaluation Form

Page 1 of 2

Tax Map Number: _____ Health Department I.D. Number: _____

General InformationDate: June 3, 1993Fauquier County Health DepartmentApplicant: Draper Aden AssociatesTelephone Number: (804) 870-7675Address: 4136 Innslake Drive, Glen Allen, Virginia 23060Owner: Same

Address: _____

Location: The Coral Farm, Route 29/15, Near Warrenton

Subdivision: _____

Block/Section: _____

Site # 1**Soil Information Summary**

1. Position in landscape satisfactory Yes No Describe: Sloping Ridgetop
2. Slope 2-3 %
3. Depth to rock/inpervious strata Max. Min. None
4. Depth to seasonal water table No Yes _____ inches
5. Free water present No Yes range in inches: _____
6. Soil percolation rate estimated Yes Texture Group II & III
No Estimated Rate 35-40 minutes per inch
7. Percolation test performed Yes Number of percolation holes: n/a
No Depth of percolation test holes: n/a
Average percolation rate: n/a

Name and Title of Evaluators: Glen McClenny, VCPSS #3401-0049; Curtis Moore, Soil Scientist

Signatures: _____

Department Use Site Approved: Drainfield to be placed at _____ depth at site designated on permit. Site Disapproved:

Reasons for rejection:

1. Position in landscape subject to flooding or periodic saturation.
2. Insufficient depth to suitable soil over hard rock.
3. Insufficient depth to suitable soil to seasonal water table.
4. Rates of absorption too slow.
5. Insufficient area of acceptable soil for required drainfield, and/or Reserve Area.
6. Proposed system too close to well.
7. Other Specify _____

Date of Evaluation: June 3, 1993

Page 2 of 2

Profile Descriptions
SOIL EVALUATION REPORT

Fauquier Landfill, Site #1

Where the local health department conducts the soil evaluation the location of profile holes may be shown on the schematic drawing on the construction permit or the sketch submitted with the application. If soil evaluations are conducted by a private soil scientist, location of profile notes and sketch of the area investigated including all structural features i.e., sewage disposal systems, wells, etc., within 100 feet of site (See section 4) and reserve site shall be shown on the reverse side of this page or prepared on a separate page and attached to this form.

See sketch on page attached to this form.

HOLE #	HORIZON	DEPTH	DESCRIPTION OF COLOR, TEXTURE, ETC.	GROUP
1	A	0-6	5YR 3/4 Silt Loam, Friable	III
	Bt	6-26	2.5YR 4/6 Silty Clay Loam, Firm	III
	C	26-72	Mixed 2.5YR 4/8, 5/8, 6/8, 5YR 6/8, 6/6, 7/8 with few prominent 10YR 7/8, 2/1 mottles; Very Fine Sandy Loam, Very Friable	II
2	A	0-7	5YR 3/4 Silt Loam, Friable	III
	Bt	7-22	2.5YR 4/6 Light Silty Clay Loam, Friable to Firm	III
	BC	22-36	2.5YR 4/8, 5YR 5/8 Silt Loam, Friable	III
	C	36-72	5YR 5/6, 6/8, 7/8, 7.5YR 6/8, 7/8 Micaceous Fine Sandy Loam, Very Friable; few quartz gravel 54-60"	II
3	A	0-6	5YR 3/4 Silt Loam, Friable	III
	Bt	6-28	2.5YR 4/6 Light Silty Clay Loam, Friable to Firm	III
	C	28-72	5YR 5/8, 6/8, 7/8, 7.5YR 6/8, 7/8 Silt Loam to Very Fine Sandy Loam, Very Friable	II/III
4	A	0-5	5YR 3/3, 3/4 Silt Loam, Friable	III
	Bt	5-24	2.5YR 5/6, 5/8, 4/6 Light Silty Clay Loam to Clay Loam, Friable to Firm	III
	BC	24-36	2.5YR 4/6, 4/8, 5/8, 5YR 5/6, 5/8 Silt Loam, Friable	III
	C	36-72	2.5YR 4/8, 5/8, 6/8 with few prominent 10YR 7/8, 2/1, 2.5Y 4/4 parent mottles; Micaceous Silt Loam, Very Friable	III
5	A	0-6	5YR 3/4 Silt Loam, Friable	III
	Bt	6-24	5YR 5/6 Silty Clay Loam, Firm	III
	C	24-72	Mixed 2.5YR 4/6, 4/8, 5YR 5/6, 5/8, 6/8, 7/8 with few prominent 10YR 2/1, 7/8 parent mottles; Micaceous Fine Sandy Loam, Very Friable	II

REMARKS:

Trench Bottom: 48"

Area: 56' X 65'; Install 4, 56 foot lines on 9 foot centers, using 3 foot wide trenches, to yield enough drainfield for 320 gallons per day usage (based on a 40 mpi). The reserve shall be the remaining 4, 56 foot lines. *Sewer District (100%) Reserve*

COMMONWEALTH OF VIRGINIA
Department of Health

T 0291

Item E.

PCMS Pt. # _____
Health Department Date: 12/2/93

Doyle

County of Henrico

Received of: _____

Don Profiler Dollars \$ 400.00 CASH

For: Lat Ceq x 1 unit Local Use: _____ CHECK

Services Given For: Corkle Farm MONEY ORDER

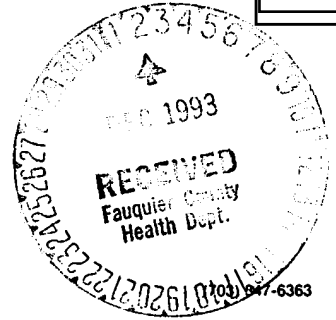
Received By: P. Lammey

Codes	Amt.	Codes	Amt.
<u>116</u>	<u>\$ 50.00</u>		\$ _____
<u>119</u>	<u>\$ 25.00</u>		\$ _____
<u>345</u>	<u>\$ 325.00</u>		\$ _____
			\$ _____

698

ADM-1304 REV. 10/91

Item b.



COMMONWEALTH of VIRGINIA

Fauquier County Health Department

ENVIRONMENTAL HEALTH

320 HOSPITAL DRIVE - SUITE 21

WARRENTON, VIRGINIA 22186

IN COOPERATION WITH THE
STATE DEPARTMENT OF HEALTH

November 9, 1993

Mr. Ellis Bingham, Solid Waste Manager
County of Fauquier
78 W. Lee Street
Warrenton, Virginia 22186

RE: Sewage Disposal Permit - Corral Farm Sanitary Landfill

Dear Mr. Bingham:

This letter is written in response to your permit for the above referenced proposal. This office has approved the site plan which included the lot certification for the sewage disposal system and non-potable water supply on 11/8/93. However, before we can issue a permit for the above, your office needs to submit the following fees (\$150, lot certification and \$250, well and septic) and the enclosed (completed) application.

Once this has been done, this office will proceed with the issuance of the permit as expeditiously as possible. In the interim, if this office can be of further assistance, please call (703) 347-6369.

Sincerely,

C.A. Jackson Jr.
Environmental Health Specialist

INSERT OVERSIZED HERE

FIELD OFFICE: FAUQUIER

BOX #: 114

TAX MAP #: 6983-81-0145

MAP SEQUENCE #: 001

Appendix III: Regulatory Records Documentation

8499 BINGHAM RD
8499 BINGHAM RD
WARRENTON, VA 20187

Inquiry Number: 7085107.2s
August 12, 2022

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

8499 BINGHAM RD
WARRENTON, VA 20187

COORDINATES

Latitude (North):	38.6804930 - 38° 40' 49.77"
Longitude (West):	77.7866350 - 77° 47' 11.88"
Universal Transverse Mercator:	Zone 18
UTM X (Meters):	257591.7
UTM Y (Meters):	4284800.0
Elevation:	531 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	13911450 WARRENTON, VA
Version Date:	2019

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140816
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
 8499 BINGHAM RD
 WARRENTON, VA 20187

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	FAUQUIER COUNTY HHW	6438 COLLEGE ST	PA MANIFEST	Higher	682, 0.129, East
A2	CORRAL FARM WASTE MA	6438 COLLEGE ST	VA SWF/LF, VA SPILLS, VA ENF, VA Financial...	Higher	682, 0.129, East
A3	FAUQUIER COUNTY HHW	6438 COLLEGE STREET	RCRA-VSQG	Higher	682, 0.129, East

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL..... National Priority List
 Proposed NPL..... Proposed National Priority List Sites
 NPL LIENS..... Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL..... National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY..... Federal Facility Site Information listing
 SEMS..... Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS..... Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-LQG..... RCRA - Large Quantity Generators
 RCRA-SQG..... RCRA - Small Quantity Generators

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
 US ENG CONTROLS..... Engineering Controls Sites List
 US INST CONTROLS..... Institutional Controls Sites List

EXECUTIVE SUMMARY

Federal ERNS list

ERNS..... Emergency Response Notification System

Lists of state- and tribal hazardous waste facilities

VA SHWS..... This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

Lists of state and tribal leaking storage tanks

VA LUST..... Leaking Underground Storage Tank Tracking Database
 INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
 VA LTANKS..... Leaking Petroleum Storage Tanks

Lists of state and tribal registered storage tanks

FEMA UST..... Underground Storage Tank Listing
 VA UST..... Registered Petroleum Storage Tanks
 VA AST..... Registered Petroleum Storage Tanks
 INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

VA ENG CONTROLS..... Engineering Controls Sites Listing
 VA INST CONTROL..... Voluntary Remediation Program Database

Lists of state and tribal voluntary cleanup sites

VA VCP..... Voluntary Remediation Program
 INDIAN VCP..... Voluntary Cleanup Priority Listing

Lists of state and tribal brownfield sites

VA BROWNFIELDS..... Brownfields Site Specific Assessments

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
 ODI..... Open Dump Inventory
 DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
 IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register
 US CDL..... National Clandestine Laboratory Register

EXECUTIVE SUMMARY

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
VA SPILLS 90..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated
 FUDS..... Formerly Used Defense Sites
 DOD..... Department of Defense Sites
 SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
 US FIN ASSUR..... Financial Assurance Information
 EPA WATCH LIST..... EPA WATCH LIST
 2020 COR ACTION..... 2020 Corrective Action Program List
 TSCA..... Toxic Substances Control Act
 TRIS..... Toxic Chemical Release Inventory System
 SSTS..... Section 7 Tracking Systems
 ROD..... Records Of Decision
 RMP..... Risk Management Plans
 RAATS..... RCRA Administrative Action Tracking System
 PRP..... Potentially Responsible Parties
 PADS..... PCB Activity Database System
 ICIS..... Integrated Compliance Information System
 FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
 MLTS..... Material Licensing Tracking System
 COAL ASH DOE..... Steam-Electric Plant Operation Data
 COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
 PCB TRANSFORMER..... PCB Transformer Registration Database
 RADINFO..... Radiation Information Database
 HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
 DOT OPS..... Incident and Accident Data
 CONSENT..... Superfund (CERCLA) Consent Decrees
 INDIAN RESERV..... Indian Reservations
 FUSRAP..... Formerly Utilized Sites Remedial Action Program
 UMTRA..... Uranium Mill Tailings Sites
 LEAD SMELTERS..... Lead Smelter Sites
 US AIRS..... Aerometric Information Retrieval System Facility Subsystem
 US MINES..... Mines Master Index File
 ABANDONED MINES..... Abandoned Mines
 FINDS..... Facility Index System/Facility Registry System
 DOCKET HWC..... Hazardous Waste Compliance Docket Listing
 ECHO..... Enforcement & Compliance History Information
 UXO..... Unexploded Ordnance Sites
 FUELS PROGRAM..... EPA Fuels Program Registered Listing
 VA AIRS..... Permitted Airs Facility List
 VA NPDES..... Comprehensive Environmental Data System
 VA COAL ASH..... Coal Ash Disposal Sites
 VA DRYCLEANERS..... Drycleaner List
 VA TIER 2..... Tier 2 Information Listing

EXECUTIVE SUMMARY

VA UIC..... Underground Injection Control Wells
 MINES MRDS..... Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP..... EDR Proprietary Manufactured Gas Plants
 EDR Hist Auto..... EDR Exclusive Historical Auto Stations
 EDR Hist Cleaner..... EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

VA RGA LF..... Recovered Government Archive Solid Waste Facilities List
 VA RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal RCRA generators

RCRA-VSQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-VSQG list, as provided by EDR, and dated 06/20/2022 has revealed that there is 1 RCRA-VSQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FAUQUIER COUNTY HHW EPA ID:: VAR000517722	6438 COLLEGE STREET	E 1/8 - 1/4 (0.129 mi.)	A3	209

EXECUTIVE SUMMARY

Lists of state and tribal landfills and solid waste disposal facilities

VA SWF/LF: The Solid Waste Management Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Department of Environmental Quality's Permitted Facilities list.

A review of the VA SWF/LF list, as provided by EDR, and dated 02/25/2022 has revealed that there is 1 VA SWF/LF site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CORRAL FARM WASTE MA Permit Number: PBR625 Permit Number: SWP149 Permit Number: SWP575 Permit Number: PBR528 pmt_stat: Permitted pmt_stat: Revoked	6438 COLLEGE ST	E 1/8 - 1/4 (0.129 mi.)	A2	10

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

PA MANIFEST: Hazardous waste manifest information.

A review of the PA MANIFEST list, as provided by EDR, and dated 06/30/2018 has revealed that there is 1 PA MANIFEST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FAUQUIER COUNTY HHW Generator EPA Id: VAR000517722	6438 COLLEGE ST	E 1/8 - 1/4 (0.129 mi.)	A1	8

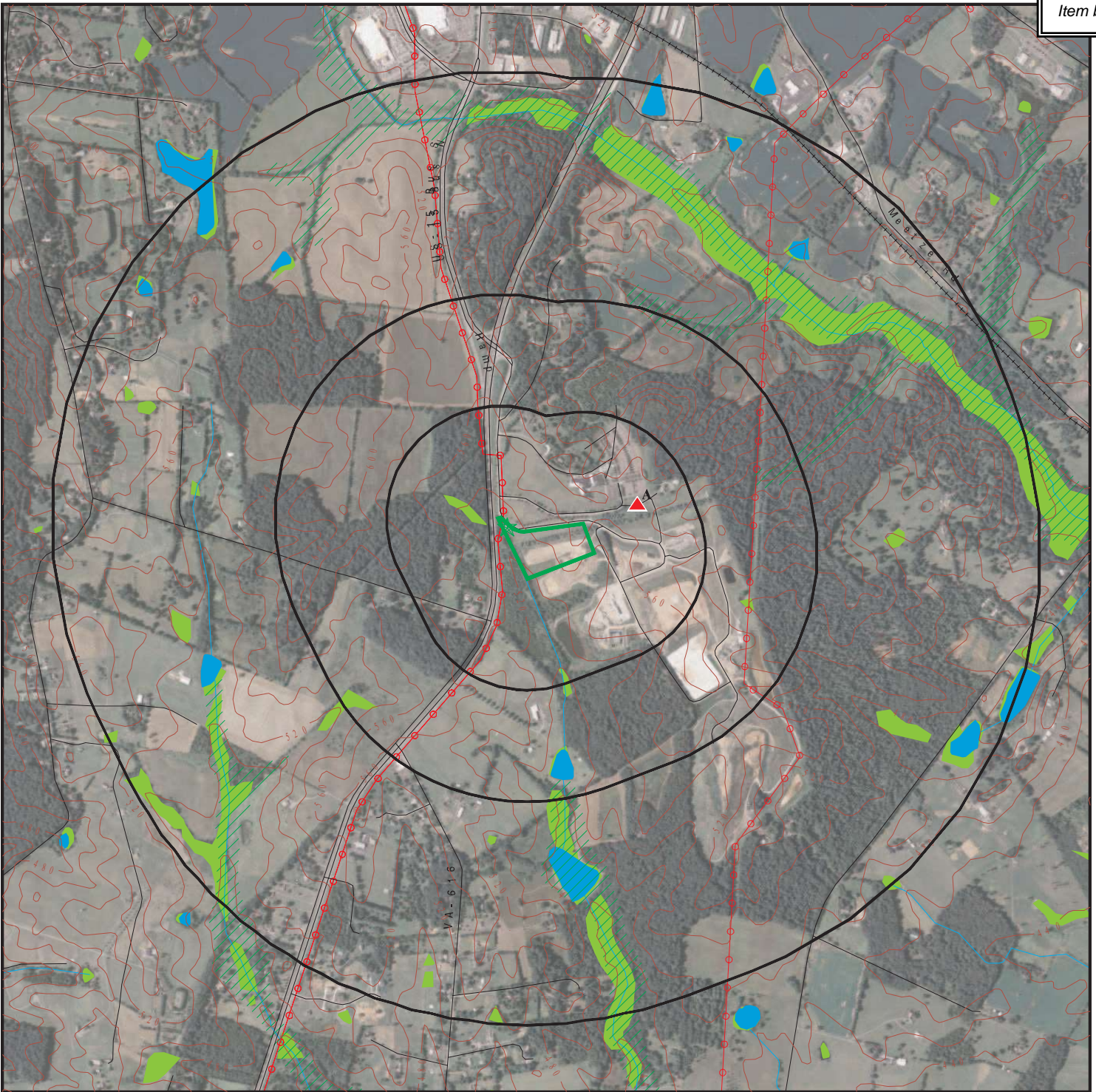
EXECUTIVE SUMMARY






Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

<u>Site Name</u>	<u>Database(s)</u>
NEW BALTIMORE FIRE DEPT (COMPANY 1	VA LUST

OVERVIEW MAP - 7085107.2S

Item b.



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  National Priority List Sites
-  Dept. Defense Sites
-  Indian Reservations BIA
-  Power transmission lines
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  National Wetland Inventory

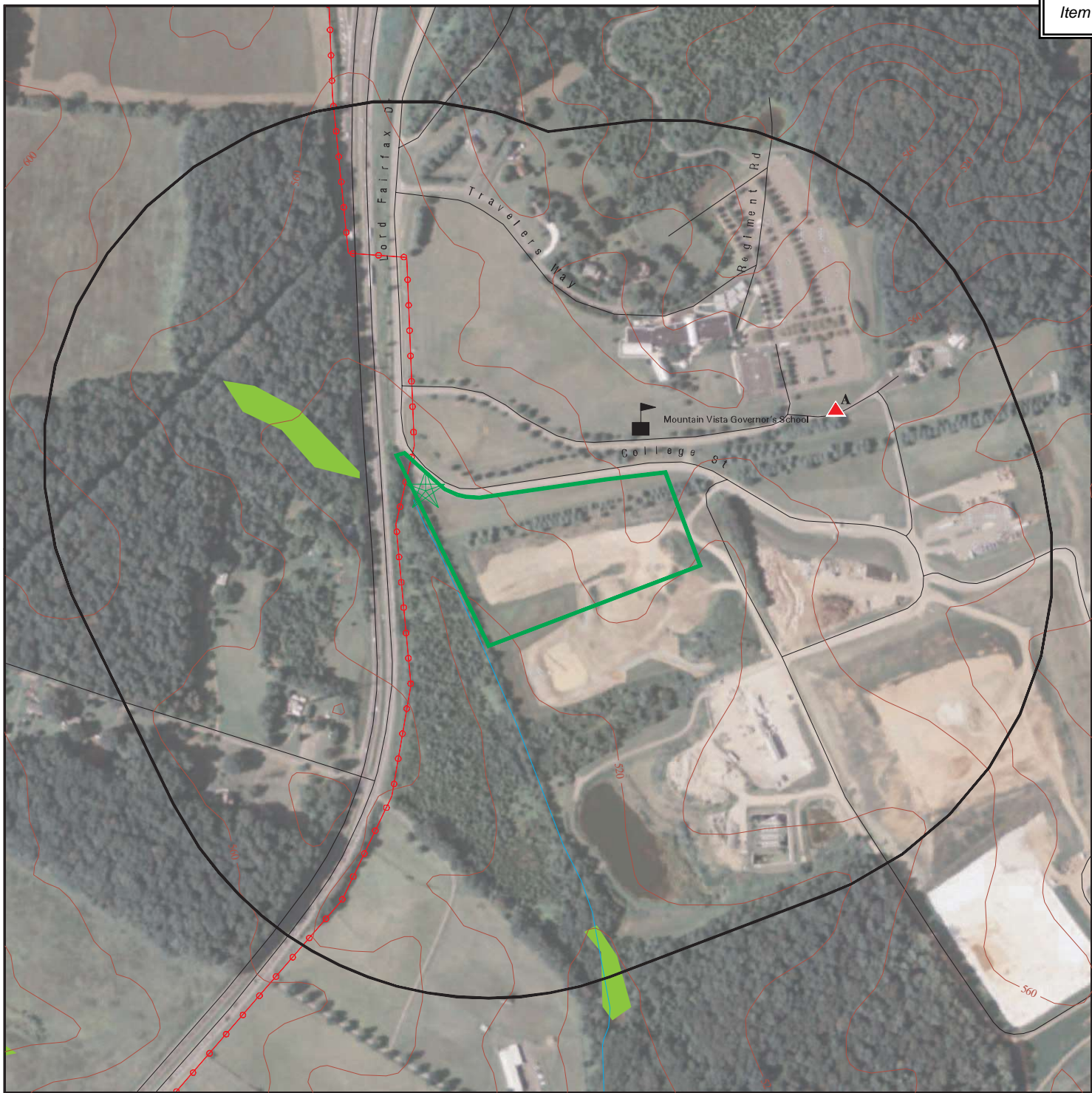
This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.


SITE NAME: 8499 BINGHAM RD
 ADDRESS: 8499 BINGHAM RD
 WARRENTON VA 20187
 LAT/LONG: 38.680493 / 77.786635

CLIENT: ECS Mid Atlantic, LLC
 CONTACT: Joshua Allen Peckham
 INQUIRY #: 7085107.2s
 DATE: August 12, 2022 11:54 am






DETAIL MAP - 7085107.2S

Item b.



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites



-  Indian Reservations BIA
-  Power transmission lines
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  National Wetland Inventory



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 8499 BINGHAM RD
 ADDRESS: 8499 BINGHAM RD
 WARRENTON VA 20187
 LAT/LONG: 38.680493 / 77.786635

CLIENT: ECS Mid Atlantic, LLC
 CONTACT: Joshua Allen Peckham
 INQUIRY #: 7085107.2s
 DATE: August 12, 2022 11:54 am

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Lists of Federal NPL (Superfund) sites</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<i>Lists of Federal Delisted NPL sites</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Lists of Federal sites subject to CERCLA removals and CERCLA orders</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Lists of Federal CERCLA sites with NFRAP</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Lists of Federal RCRA facilities undergoing Corrective Action</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Lists of Federal RCRA TSD facilities</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Lists of Federal RCRA generators</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	1	NR	NR	NR	1
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>Lists of state- and tribal hazardous waste facilities</i>								
VA SHWS	N/A		N/A	N/A	N/A	N/A	N/A	N/A
<i>Lists of state and tribal landfills and solid waste disposal facilities</i>								
VA SWF/LF	0.500		0	1	0	NR	NR	1
<i>Lists of state and tribal leaking storage tanks</i>								
VA LUST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
VA LTANKS	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal registered storage tanks</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0
VA UST	0.250		0	0	NR	NR	NR	0
VA AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<i>State and tribal institutional control / engineering control registries</i>								
VA ENG CONTROLS	0.500		0	0	0	NR	NR	0
VA INST CONTROL	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal voluntary cleanup sites</i>								
VA VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal brownfield sites</i>								
VA BROWNFIELDS	0.500		0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Landfill / Solid Waste Disposal Sites</i>								
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Hazardous waste / Contaminated Sites</i>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
<i>Local Land Records</i>								
LIENS 2	TP		NR	NR	NR	NR	NR	0
<i>Records of Emergency Release Reports</i>								
HMIRS	TP		NR	NR	NR	NR	NR	0
VA SPILLS	TP		NR	NR	NR	NR	NR	0
VA SPILLS 90	TP		NR	NR	NR	NR	NR	0
<i>Other Ascertainable Records</i>								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
VA AIRS	TP		NR	NR	NR	NR	NR	0
VA NPDES	TP		NR	NR	NR	NR	NR	0
VA COAL ASH	0.500		0	0	0	NR	NR	0
VA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
VA ENF	TP		NR	NR	NR	NR	NR	0
VA Financial Assurance	TP		NR	NR	NR	NR	NR	0
PA MANIFEST	0.250		0	1	NR	NR	NR	1
VA TIER 2	TP		NR	NR	NR	NR	NR	0
VA UIC	TP		NR	NR	NR	NR	NR	0
MINES MRDS	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
<u>EDR RECOVERED GOVERNMENT ARCHIVES</u>								
<i>Exclusive Recovered Govt. Archives</i>								
VA RGA LF	TP		NR	NR	NR	NR	NR	0
VA RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	0	3	0	0	0	3

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

A1
East
1/8-1/4
0.129 mi.
682 ft.

FAUQUIER COUNTY HHW
6438 COLLEGE ST
WARRENTON, VA 20187
Site 1 of 3 in cluster A

PA MANIFEST **S123094923**
N/A

Relative:
Higher
Actual:
579 ft.

Manifest Details:

Year: 2017
Manifest Number: 015831253JJK
Manifest Type: TSD Copy
Generator EPA Id: VAR000517722
Generator Date: 10/21/2017
Mailing Address: Not reported
Mailing City,St,Zip: Not reported
Contact Name: Not reported
Contact Phone: Not reported
TSD EPA Id: Not reported
TSD Date: Not reported
TSD Facility Name: Cycle Chem Inc
TSD Facility Address: 550 Industrial Rd
TSD Facility City: Lewisberry
TSD Facility State: PA
Facility Telephone: Not reported
Page Number: 1
Line Number: 1
Waste Number: D004
Container Number: 1
Container Type: Metal drums, barrels, kegs
Waste Quantity: 70
Unit: Pounds
Handling Code: Not reported
TSP EPA Id: PAD067098822
Date TSP Sig: Not reported

Year: 2017
Manifest Number: 015831253JJK
Manifest Type: TSD Copy
Generator EPA Id: VAR000517722
Generator Date: 10/21/2017
Mailing Address: Not reported
Mailing City,St,Zip: Not reported
Contact Name: Not reported
Contact Phone: Not reported
TSD EPA Id: Not reported
TSD Date: Not reported
TSD Facility Name: Cycle Chem Inc
TSD Facility Address: 550 Industrial Rd
TSD Facility City: Lewisberry
TSD Facility State: PA
Facility Telephone: Not reported
Page Number: 1
Line Number: 1
Waste Number: P037
Container Number: 1
Container Type: Metal drums, barrels, kegs
Waste Quantity: 70
Unit: Pounds
Handling Code: Not reported
TSP EPA Id: PAD067098822

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

FAUQUIER COUNTY HHW (Continued)

S123094923

Date TSP Sig:	Not reported
Year:	2017
Manifest Number:	015831253JJK
Manifest Type:	TSD Copy
Generator EPA Id:	VAR000517722
Generator Date:	10/21/2017
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	Not reported
TSD Date:	Not reported
TSD Facility Name:	Cycle Chem Inc
TSD Facility Address:	550 Industrial Rd
TSD Facility City:	Lewisberry
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	P044
Container Number:	1
Container Type:	Metal drums, barrels, kegs
Waste Quantity:	70
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	PAD067098822
Date TSP Sig:	Not reported
Year:	2017
Manifest Number:	015831253JJK
Manifest Type:	TSD Copy
Generator EPA Id:	VAR000517722
Generator Date:	10/21/2017
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	Not reported
TSD Date:	Not reported
TSD Facility Name:	Cycle Chem Inc
TSD Facility Address:	550 Industrial Rd
TSD Facility City:	Lewisberry
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D020
Container Number:	1
Container Type:	Metal drums, barrels, kegs
Waste Quantity:	70
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	PAD067098822
Date TSP Sig:	Not reported

MAP FINDINGS

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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A2	CORRAL FARM WASTE MANAGEMENT FACILITY	VA SWF/LF	S107678802
East	6438 COLLEGE ST	VA SPILLS	N/A
1/8-1/4	WARRENTON, VA 20187	VA ENF	
0.129 mi.		VA Financial Assurance	
682 ft.	Site 2 of 3 in cluster A		

Relative: SWF/LF:
Higher Name: CORRAL FARM WASTE MANAGEMENT FACILITY
Actual: Address: 6438 COLLEGE ST
579 ft. Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Permit Number: PBR625
Unit Name: Transfer Station
Unit Status Code: Not reported
Deq Region: Northern Regional Office
Mailing Address: 6438 College St
Mailing Address 2: Not reported
Mailing Address 3: Not reported
Mailing City,St,Zip: Warrenton, VA 20187
Facility Telephone: Not reported
Decimal Longitude: Not reported
Lat/Long (dms): 38 40 48.86 / -77 46 45.65
Owner Name: Not reported
Operator Name: Not reported
Unit Status Description: Transfer Station - Active
Payment ID: Not reported

Permit:
Permit Number: PBR625
Unit Description: Corral Farm Transfer Station
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 1/24/2019

Permit Number: PBR625
Unit Description: Corral Farm Transfer Station
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 1/4/2021

Permit Number: PBR625
Unit Description: Corral Farm Transfer Station
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/12/2017

Permit Number: PBR625
Unit Description: Corral Farm Transfer Station
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/26/2019

Permit Number: PBR625
Unit Description: Corral Farm Transfer Station
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/28/2018

Permit Number: PBR625

MAP FINDINGS

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Database(s)

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Unit Description: Corral Farm Transfer Station
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 2/12/2018

Permit Number: PBR625
Unit Description: Corral Farm Transfer Station
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 2/5/2020

Permit Number: PBR625
Unit Description: Corral Farm Transfer Station
FIC Description: Fauquier County
Permit Event Desc: Notice of Intent received
Permit Event Complete Date: 7/31/2017

Permit Number: PBR625
Unit Description: Corral Farm Transfer Station
FIC Description: Fauquier County
Permit Event Desc: Application received
Permit Event Complete Date: 8/16/2017

Permit Number: PBR625
Unit Description: Corral Farm Transfer Station
FIC Description: Fauquier County
Permit Event Desc: Completeness Review
Permit Event Complete Date: 8/23/2017

Permit Number: PBR625
Unit Description: Corral Farm Transfer Station
FIC Description: Fauquier County
Permit Event Desc: Application revision received
Permit Event Complete Date: 8/29/2017

Permit Number: PBR625
Unit Description: Corral Farm Transfer Station
FIC Description: Fauquier County
Permit Event Desc: Application revision received
Permit Event Complete Date: 9/12/2017

Permit Number: PBR625
Unit Description: Corral Farm Transfer Station
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Cost Estimate Approved
Permit Event Complete Date: 9/18/2017

Permit Number: PBR625
Unit Description: Corral Farm Transfer Station
FIC Description: Fauquier County
Permit Event Desc: Permit issued
Permit Event Complete Date: 9/22/2017

Permit Number: PBR625
Unit Description: Corral Farm Transfer Station
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued

MAP FINDINGS

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Database(s)

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Permit Event Complete Date: 9/25/2017

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Permit Number: SWP149
 Unit Name: Sanitary Landfill
 Unit Status Code: Not reported
 Deq Region: Northern Regional Office
 Mailing Address: 6438 College St
 Mailing Address 2: Not reported
 Mailing Address 3: Not reported
 Mailing City,St,Zip: Warrenton, VA 20187
 Facility Telephone: Not reported
 Decimal Longitude: Not reported
 Lat/Long (dms): 38 40 54.16 / -77 46 48.58
 Owner Name: Not reported
 Operator Name: Not reported
 Unit Status Description: Sanitary Landfill - Inactive
 Payment ID: Not reported

Permit:

Permit Number: SWP149
 Unit Description: Fauquier County Landfill
 FIC Description: Fauquier County
 Permit Event Desc: Financial Assurance Response Received
 Permit Event Complete Date: 1/10/2008

Permit Number: SWP149
 Unit Description: Fauquier County Landfill
 FIC Description: Fauquier County
 Permit Event Desc: Financial Assurance Compliance Letter Issued
 Permit Event Complete Date: 1/11/2008

Permit Number: SWP149
 Unit Description: Fauquier County Landfill
 FIC Description: Fauquier County
 Permit Event Desc: Financial Assurance Annual Update Submitted
 Permit Event Complete Date: 1/16/2007

Permit Number: SWP149
 Unit Description: Fauquier County Landfill
 FIC Description: Fauquier County
 Permit Event Desc: Financial Assurance Compliance Letter Issued
 Permit Event Complete Date: 1/16/2014

Permit Number: SWP149
 Unit Description: Fauquier County Landfill
 FIC Description: Fauquier County
 Permit Event Desc: Financial Assurance Compliance Letter Issued
 Permit Event Complete Date: 1/17/2007

Permit Number: SWP149
 Unit Description: Fauquier County Landfill
 FIC Description: Fauquier County

MAP FINDINGS

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Database(s)

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Permit Event Desc: Financial Assurance Cost Estimate Sent to Region
Permit Event Complete Date: 1/17/2007

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 1/19/2006

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Mechanism Submitted
Permit Event Complete Date: 1/2/2003

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Finalizing permit,respond to comments
Permit Event Complete Date: 1/23/2001

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Annual GW monitoring report received
Permit Event Complete Date: 1/24/2003

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 1/24/2019

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Cost Estimate Sent to Region
Permit Event Complete Date: 1/25/2010

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 1/30/2009

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 1/4/2021

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 1/5/2015

MAP FINDINGS

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Cost Estimate Sent to Region
Permit Event Complete Date: 11/16/2005

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Technically adequate, drafting permit
Permit Event Complete Date: 11/3/2000

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Public notice-draft permit issued
Permit Event Complete Date: 11/9/2000

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/12/2017

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/13/2012

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Mechanism Submitted
Permit Event Complete Date: 12/16/2009

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/18/2015

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 12/18/2015

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/19/2011

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 12/2/2012

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/22/2008

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/26/2019

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/27/2004

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/27/2007

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/27/2010

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/28/2016

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/28/2018

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 12/29/2004

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/29/2014

MAP FINDINGS

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Database(s)

EDR ID Number
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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 12/29/2016

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/30/2013

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/31/2003

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: PUBLIC HEARING DATE
Permit Event Complete Date: 12/7/2000

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/9/2005

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 2/1/2011

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Mechanism Submitted
Permit Event Complete Date: 2/10/2003

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 2/12/2018

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Ten year permit review completed
Permit Event Complete Date: 2/14/2001

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County

MAP FINDINGS

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Database(s)

EDR ID Number
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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Permit Event Desc: Annual GW monitoring report received
Permit Event Complete Date: 2/17/2006

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Annual GW monitoring report received
Permit Event Complete Date: 2/20/2007

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Permit issued
Permit Event Complete Date: 2/4/1974

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 2/5/2010

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 2/5/2020

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Annual Groundwater Report Acknowledgement
Permit Event Complete Date: 2/7/2008

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 3/7/2003

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Annual GW monitoring report received
Permit Event Complete Date: 4/4/2000

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 4/4/2012

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Annual GW Report Approved
Permit Event Complete Date: 5/15/2008

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Annual GW Report Review Letter Sent
Permit Event Complete Date: 5/15/2008

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 6/14/2004

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Annual GW Report Approved
Permit Event Complete Date: 6/20/2006

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Annual GW Report Review Letter Sent
Permit Event Complete Date: 6/20/2006

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Annual GW Report Approved
Permit Event Complete Date: 8/1/2007

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Annual GW Report Review Letter Sent
Permit Event Complete Date: 8/1/2007

Permit Number: SWP149
Unit Description: Fauquier County Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 8/6/2013

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Permit Number: SWP575
Unit Name: Sanitary Landfill
Unit Status Code: Not reported
Deq Region: Northern Regional Office
Mailing Address: 6438 College St
Mailing Address 2: Not reported
Mailing Address 3: Not reported
Mailing City,St,Zip: Warrenton, VA 20187
Facility Telephone: Not reported

MAP FINDINGS

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Database(s)

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Decimal Longitude: Not reported
Lat/Long (dms): 38 40 38.99 / -77 46 44.58
Owner Name: Not reported
Operator Name: Not reported
Unit Status Description: Sanitary Landfill - Active
Payment ID: Not reported

Permit:

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Response Received
Permit Event Complete Date: 1/10/2008

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 1/11/2008

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 1/16/2007

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 1/16/2014

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 1/17/2007

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Cost Estimate Sent to Region
Permit Event Complete Date: 1/17/2007

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 1/19/2006

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Mechanism Submitted
Permit Event Complete Date: 1/2/2003

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

FIC Description: Fauquier County
Permit Event Desc: Annual GW monitoring report received
Permit Event Complete Date: 1/24/2003

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 1/24/2019

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Cost Estimate Sent to Region
Permit Event Complete Date: 1/25/2010

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: CTO inspection conducted
Permit Event Complete Date: 1/27/2006

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 1/30/2009

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 1/4/2021

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 1/5/2015

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Cost Estimate Sent to Region
Permit Event Complete Date: 11/16/2005

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/12/2017

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/13/2012

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/16/2009

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/18/2015

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 12/18/2015

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/19/2011

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/22/2008

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: CQA report review
Permit Event Complete Date: 12/26/2002

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/26/2019

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: CTO issued
Permit Event Complete Date: 12/27/2002

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/27/2004

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/27/2007

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/27/2010

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 12/27/2012

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/28/2016

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/28/2018

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 12/29/2004

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: CQA report received
Permit Event Complete Date: 12/29/2005

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/29/2014

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 12/29/2016

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/30/2013

MAP FINDINGS

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/31/2003

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/9/2005

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 2/1/2011

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Mechanism Submitted
Permit Event Complete Date: 2/10/2003

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 2/12/2018

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Annual GW monitoring report received
Permit Event Complete Date: 2/17/2006

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: CTO issued
Permit Event Complete Date: 2/2/2006

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Annual GW monitoring report received
Permit Event Complete Date: 2/20/2007

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 2/5/2010

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County

MAP FINDINGS

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 2/5/2020

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Installation report received
Permit Event Complete Date: 2/8/2002

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Annual GW monitoring report received
Permit Event Complete Date: 2/8/2008

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Ten year permit review completed
Permit Event Complete Date: 3/16/2004

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 3/7/2003

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: CQA report received
Permit Event Complete Date: 4/29/2013

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 4/4/2012

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: OWP Acknowledgement Letter Sent
Permit Event Complete Date: 4/9/2002

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: CTO inspection conducted
Permit Event Complete Date: 5/17/2013

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: CTO issued
Permit Event Complete Date: 5/22/2013

MAP FINDINGS

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 6/14/2004

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Annual GW Report Approved
Permit Event Complete Date: 7/26/2006

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Annual GW Report Review Letter Sent
Permit Event Complete Date: 7/26/2006

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Annual GW Report Approved
Permit Event Complete Date: 7/9/2008

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Annual GW Report Review Letter Sent
Permit Event Complete Date: 7/9/2008

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Annual GW Report Approved
Permit Event Complete Date: 8/1/2007

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Annual GW Report Review Letter Sent
Permit Event Complete Date: 8/1/2007

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 8/6/2013

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: CTO inspection conducted
Permit Event Complete Date: 9/12/2002

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Permit Event Desc: CQA report received
Permit Event Complete Date: 9/17/2002

Permit Number: SWP575
Unit Description: Corral Farm Sanitary Landfill
FIC Description: Fauquier County
Permit Event Desc: Permit issued
Permit Event Complete Date: 9/23/1994

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Permit Number: PBR528
Unit Name: Materials Recovery Facility
Unit Status Code: Not reported
Deq Region: Northern Regional Office
Mailing Address: 6438 College St
Mailing Address 2: Not reported
Mailing Address 3: Not reported
Mailing City,St,Zip: Warrenton, VA 20187
Facility Telephone: Not reported
Decimal Longitude: Not reported
Lat/Long (dms): 38 40 40.85 / -77 46 55.89
Owner Name: Not reported
Operator Name: Not reported
Unit Status Description: Materials Recovery Facility - Clean Closed
Payment ID: Not reported

Permit:

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Response Received
Permit Event Complete Date: 1/10/2008

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 1/11/2008

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Permit revoked
Permit Event Complete Date: 1/13/2022

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 1/16/2014

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 1/24/2019

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Cost Estimate Sent to Region
Permit Event Complete Date: 1/25/2010

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Cost Estimate Sent to Region
Permit Event Complete Date: 1/29/2009

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 1/30/2009

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 1/4/2021

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 1/5/2015

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Permit issued
Permit Event Complete Date: 11/29/2006

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/12/2017

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/13/2012

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Mechanism Submitted
Permit Event Complete Date: 12/16/2009

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/18/2015

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 12/18/2015

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/19/2011

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/22/2008

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/26/2019

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/27/2010

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 12/27/2012

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/28/2016

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/28/2018

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/29/2014

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 12/29/2016

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 12/30/2013

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 2/1/2011

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 2/12/2018

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Annual Update Submitted
Permit Event Complete Date: 2/27/2007

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 2/5/2010

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 2/5/2020

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 4/4/2012

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Application received
Permit Event Complete Date: 7/27/2006

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Database(s)

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Application revision received
Permit Event Complete Date: 8/28/2006

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Financial Assurance Compliance Letter Issued
Permit Event Complete Date: 8/6/2013

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: OWP Acknowledgement Sent
Permit Event Complete Date: 8/9/2006

Permit Number: PBR528
Unit Description: Fauquier County CDD MRF
FIC Description: Fauquier County
Permit Event Desc: Review-1
Permit Event Complete Date: 8/9/2006

SPILLS:

Name: FAQUIER COUNTY SOLID WASTE MANAGMENT FACILITY '
Address: 6438 COLLEGE ST.
City,State,Zip: WARRENTON, VA 20187
City,State,Zip: WARRENTON, VA 20187
Fips City/County: 061/Fauquier County
Status: Closed
Reference Id: 66774
IR Number: 2017-N-0363
Associated IR: Not reported
Incident Date: 07/12/2016
Call Received Date: 07/13/2016
Closure Comments: Spill Cleaned up, material taken to Reco for disposal
Threat To: Not reported
Terrorism (Y/N): N
Characterize Incident: Accidental
Incident Type: Petroleum(Petroleum), Surface Spill(Petroleum)
Incident Subtype: Petroleum * Surface Spill
Materials: Not reported
Effect To Receptor: Not reported
Water Body: Not reported
Low Quantity To Water: Not reported
High Quantity To Water: Not reported
Quantity Units: Not reported
Other Receptors: Not reported
RP Company: Fauquier County Solid Waste Management Facility
RP Name: Not reported
Property Owner: Not reported
Property Company: Not reported
Duration Of Event (Hrs): 0
Impacts: Not reported
Other Impacts: Not reported

MAP FINDINGS

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Steps Taken: Not reported
 Steps Taken Description: Not reported
 System Components: Not reported
 Other System Components: Not reported
 Cause Of Event: Not reported
 Corrective Action Taken: Not reported
 Weather Status: No
 Precipitation (Wet): 0
 Discharge Type: Not reported
 Discharge Volume: 0
 Unknown Discharge (Y/N): N
 Site Name: FAUQUIER LANDFILL-DIESEL SPILL
 Closure Date: 08/01/2016
 Orig. Call Incident Description: A truck hit a rock and spill 75 gallons of diesel in Cell 1 of the Landfill
 Original Call Material Description: Diesel
 Original Call Location Description: SWP575 6438 College St. Warrenton, 20187
 Incident Ongoing at time of Call: No
 Agencies Notified (Y/N): Not reported
 Other Agencies: Not reported
 Permitted (Y/N): Yes
 Call Reported By Company Name: Fauquier County Solid Waste Management Facility
 Call Property Owner Company Name: Not reported
 Call Property Owner Name: Not reported
 Site Summary: A truck hit a rock and spill 75 gallons of diesel in Cell 1 of the Landfill

ENFORCEMENT:

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Not reported
 Location Address: Not reported
 Location Address 2: Not reported
 Location City,St,Zip: Not reported
 Solid Waste Facility Region: Not reported
 CEDS Site Id: Not reported
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Not reported
 Inspection Date: Not reported
 Inspection Event Code: Not reported
 Inspection Event Complete Date: Not reported
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: VAR051470
 Enforcement Action Number: NR18-1209
 Action: NOTICE OF VIOLATION/NOV
 Action Date: 12/13/2018
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: WATER

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Corral Farm Transfer Station
 Location Address: 8499 Bingham Road
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2189
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active
 Inspection Date: 1/8/2019
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 1/8/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Corral Farm Transfer Station
 Location Address: 8499 Bingham Road
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2189
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active
 Inspection Date: 1/8/2019
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 1/15/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Facility ID: Not reported
 Facility Name: Corral Farm Transfer Station
 Location Address: 8499 Bingham Road
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2189
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active
 Inspection Date: 10/24/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 10/24/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Corral Farm Transfer Station
 Location Address: 8499 Bingham Road
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2189
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Inspection Date: 10/24/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 11/2/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Corral Farm Transfer Station
 Location Address: 8499 Bingham Road
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2189
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active
 Inspection Date: 10/9/2019
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 10/9/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Corral Farm Transfer Station
 Location Address: 8499 Bingham Road
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2189
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active
 Inspection Date: 10/9/2019
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 10/17/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported

MAP FINDINGS

Map ID
Direction
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Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Corral Farm Transfer Station
Location Address: 8499 Bingham Road
Location Address 2: Not reported
Location City,St,Zip: Warrenton, VA 20187
Solid Waste Facility Region: NVRO
CEDS Site Id: 2189
Site Location: Not reported
Solid Permit Id (alpha Prefix): Not reported
Solid Permit Id (numeric Suffix): Not reported
Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active
Inspection Date: 12/6/2017
Inspection Event Code: INSPFAC
Inspection Event Complete Date: 12/6/2017
Solid Waste Enf Effective Date: Not reported
Solid Waste Enf Penalty Type: Not reported
Solid Waste Enf Penalty Amount: Not reported
Solid Waste Enf Type Desc: Not reported
Solid Waste Unit Type: Not reported
Solid Waste Unit Name: Not reported
Haz. Waste Facility Region: Not reported
Haz. Waste Facility Epaid: Not reported
Haz. Waste Enforcement Date: Not reported
Haz. Waste Enforcement Type: Not reported
Haz. Waste Enforcement Agency: Not reported
Haz. Waste Enf RCRIS Comments: Not reported
Haz. Waste Penalty Type: Not reported
Haz. Waste Enf Order Dt. Signed: Not reported
Haz. Waste Enf Order Type: Not reported
Haz. Waste Penalty Amount: Not reported
Type Of Permit: Not reported
Permit No: Not reported
Enforcement Action Number: Not reported
Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported

MAP FINDINGS

Map ID
Direction
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Elevation

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Corral Farm Transfer Station
 Location Address: 8499 Bingham Road
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2189
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active
 Inspection Date: 12/6/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 12/13/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Corral Farm Transfer Station
 Location Address: 8499 Bingham Road
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2189
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported

MAP FINDINGS

Map ID
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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active
 Inspection Date: 2/13/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 2/13/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Corral Farm Transfer Station
 Location Address: 8499 Bingham Road
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2189
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active
 Inspection Date: 2/13/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 2/14/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported

MAP FINDINGS

Map ID
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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 8/28/2017
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 8/28/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Permit No: Not reported
Enforcement Action Number: Not reported
Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County Solid Waste Management Facility
Location Address: 6438 College Street
Location Address 2: Not reported
Location City,St,Zip: Warrenton, VA 20187
Solid Waste Facility Region: NVRO
CEDS Site Id: 522
Site Location: Not reported
Solid Permit Id (alpha Prefix): SWP
Solid Permit Id (numeric Suffix): 575
Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
Inspection Date: 8/28/2017
Inspection Event Code: SNDL
Inspection Event Complete Date: 8/31/2017
Solid Waste Enf Effective Date: Not reported
Solid Waste Enf Penalty Type: Not reported
Solid Waste Enf Penalty Amount: Not reported
Solid Waste Enf Type Desc: Not reported
Solid Waste Unit Type: Not reported
Solid Waste Unit Name: Not reported
Haz. Waste Facility Region: Not reported
Haz. Waste Facility Epaid: Not reported
Haz. Waste Enforcement Date: Not reported
Haz. Waste Enforcement Type: Not reported
Haz. Waste Enforcement Agency: Not reported
Haz. Waste Enf RCRIS Comments: Not reported
Haz. Waste Penalty Type: Not reported
Haz. Waste Enf Order Dt. Signed: Not reported
Haz. Waste Enf Order Type: Not reported
Haz. Waste Penalty Amount: Not reported
Type Of Permit: Not reported
Permit No: Not reported
Enforcement Action Number: Not reported
Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY

MAP FINDINGS

Map ID
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Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 8/8/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 8/8/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522

MAP FINDINGS

Map ID
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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 8/8/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 8/23/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Route 29 to College Street
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Ac
 Inspection Date: 10/27/2016
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 10/27/2016
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported

MAP FINDINGS

Map ID
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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility EpaId: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Route 29 to College Street
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Ac
 Inspection Date: 10/27/2016
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 11/4/2016
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility EpaId: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported

MAP FINDINGS

Map ID
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Elevation

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported
Flag:	SOLIDWASTE
Name:	FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address:	6438 COLLEGE ST
Address 2:	Not reported
Address 3:	Not reported
City,State,Zip:	WARRENTON, VA 20187
Facility ID:	Not reported
Facility Name:	Fauquier County Solid Waste Management Facility
Location Address:	6438 College Street
Location Address 2:	Not reported
Location City,St,Zip:	Warrenton, VA 20187
Solid Waste Facility Region:	NVRO
CEDS Site Id:	522
Site Location:	Route 29 to College Street
Solid Permit Id (alpha Prefix):	SWP
Solid Permit Id (numeric Suffix):	149
Solid Waste Unit Type:	Fauquier County Landfill - Sanitary Landfill - Ac
Inspection Date:	7/19/2016
Inspection Event Code:	INSPFAC
Inspection Event Complete Date:	7/19/2016
Solid Waste Enf Effective Date:	Not reported
Solid Waste Enf Penalty Type:	Not reported
Solid Waste Enf Penalty Amount:	Not reported
Solid Waste Enf Type Desc:	Not reported
Solid Waste Unit Type:	Not reported
Solid Waste Unit Name:	Not reported
Haz. Waste Facility Region:	Not reported
Haz. Waste Facility Epaid:	Not reported
Haz. Waste Enforcement Date:	Not reported
Haz. Waste Enforcement Type:	Not reported
Haz. Waste Enforcement Agency:	Not reported
Haz. Waste Enf RCRIS Comments:	Not reported
Haz. Waste Penalty Type:	Not reported
Haz. Waste Enf Order Dt. Signed:	Not reported
Haz. Waste Enf Order Type:	Not reported
Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported
Flag:	SOLIDWASTE

MAP FINDINGS

Map ID
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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County Solid Waste Management Facility
Location Address: 6438 College Street
Location Address 2: Not reported
Location City,St,Zip: Warrenton, VA 20187
Solid Waste Facility Region: NVRO
CEDS Site Id: 522
Site Location: Route 29 to College Street
Solid Permit Id (alpha Prefix): SWP
Solid Permit Id (numeric Suffix): 149
Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Ac
Inspection Date: 7/19/2016
Inspection Event Code: SNDL
Inspection Event Complete Date: 7/26/2016
Solid Waste Enf Effective Date: Not reported
Solid Waste Enf Penalty Type: Not reported
Solid Waste Enf Penalty Amount: Not reported
Solid Waste Enf Type Desc: Not reported
Solid Waste Unit Type: Not reported
Solid Waste Unit Name: Not reported
Haz. Waste Facility Region: Not reported
Haz. Waste Facility Epaid: Not reported
Haz. Waste Enforcement Date: Not reported
Haz. Waste Enforcement Type: Not reported
Haz. Waste Enforcement Agency: Not reported
Haz. Waste Enf RCRIS Comments: Not reported
Haz. Waste Penalty Type: Not reported
Haz. Waste Enf Order Dt. Signed: Not reported
Haz. Waste Enf Order Type: Not reported
Haz. Waste Penalty Amount: Not reported
Type Of Permit: Not reported
Permit No: Not reported
Enforcement Action Number: Not reported
Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County Solid Waste Management Facility
Location Address: 6438 College Street
Location Address 2: Not reported
Location City,St,Zip: Warrenton, VA 20187
Solid Waste Facility Region: NVRO

MAP FINDINGS

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Database(s)

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EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

CEDS Site Id: 522
 Site Location: Route 29 to College Street
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill
 Inspection Date: 10/27/2016
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 10/27/2016
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Route 29 to College Street
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill
 Inspection Date: 7/19/2016
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 7/19/2016
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported

MAP FINDINGS

Map ID
Direction
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Elevation

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Route 29 to College Street
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill
 Inspection Date: 7/19/2016
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 7/25/2016
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported

MAP FINDINGS

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Database(s)

EDR ID Number
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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Enf Order Type:	Not reported
Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported
Flag:	SOLIDWASTE
Name:	FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address:	6438 COLLEGE ST
Address 2:	Not reported
Address 3:	Not reported
City,State,Zip:	WARRENTON, VA 20187
Facility ID:	Not reported
Facility Name:	Fauquier County Solid Waste Management Facility
Location Address:	6438 College Street
Location Address 2:	Not reported
Location City,St,Zip:	Warrenton, VA 20187
Solid Waste Facility Region:	Northern Regional Office
CEDS Site Id:	522
Site Location:	Route 29 to College Street
Solid Permit Id (alpha Prefix):	SWP
Solid Permit Id (numeric Suffix):	149
Solid Waste Unit Type:	Sanitary Landfill [SW]
Inspection Date:	3/9/2010
Inspection Event Code:	SWLWCIR
Inspection Event Complete Date:	4/21/2010
Solid Waste Enf Effective Date:	Not reported
Solid Waste Enf Penalty Type:	Not reported
Solid Waste Enf Penalty Amount:	Not reported
Solid Waste Enf Type Desc:	Not reported
Solid Waste Unit Type:	Not reported
Solid Waste Unit Name:	Not reported
Haz. Waste Facility Region:	Not reported
Haz. Waste Facility Epaid:	Not reported
Haz. Waste Enforcement Date:	Not reported
Haz. Waste Enforcement Type:	Not reported
Haz. Waste Enforcement Agency:	Not reported
Haz. Waste Enf RCRIS Comments:	Not reported
Haz. Waste Penalty Type:	Not reported
Haz. Waste Enf Order Dt. Signed:	Not reported
Haz. Waste Enf Order Type:	Not reported
Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported

MAP FINDINGS

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County Solid Waste Management Facility
Location Address: 6438 College Street
Location Address 2: Not reported
Location City,St,Zip: Warrenton, VA 20187
Solid Waste Facility Region: Northern Regional Office
CEDS Site Id: 522
Site Location: Route 29 to College Street
Solid Permit Id (alpha Prefix): SWP
Solid Permit Id (numeric Suffix): 575
Solid Waste Unit Type: Sanitary Landfill [SW]
Inspection Date: 12/10/2009
Inspection Event Code: SWLWCIR
Inspection Event Complete Date: 1/21/2010
Solid Waste Enf Effective Date: Not reported
Solid Waste Enf Penalty Type: Not reported
Solid Waste Enf Penalty Amount: Not reported
Solid Waste Enf Type Desc: Not reported
Solid Waste Unit Type: Not reported
Solid Waste Unit Name: Not reported
Haz. Waste Facility Region: Not reported
Haz. Waste Facility Epaid: Not reported
Haz. Waste Enforcement Date: Not reported
Haz. Waste Enforcement Type: Not reported
Haz. Waste Enforcement Agency: Not reported
Haz. Waste Enf RCRIS Comments: Not reported
Haz. Waste Penalty Type: Not reported
Haz. Waste Enf Order Dt. Signed: Not reported
Haz. Waste Enf Order Type: Not reported
Haz. Waste Penalty Amount: Not reported
Type Of Permit: Not reported
Permit No: Not reported
Enforcement Action Number: Not reported
Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Send warning letter w/CIR to facility
Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County Solid Waste Management Facility
Location Address: 6438 College Street
Location Address 2: Not reported

MAP FINDINGS

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: Northern Va. Regional Office
 CEDS Site Id: 522
 Site Location: Route 29 to College Street
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Sanitary Landfill [S]
 Inspection Date: 05/15/06
 Inspection Event Code: SNOVWCIR
 Inspection Event Complete Date: Not reported
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Send NOV w/ CIR to facility
 Flag: WASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: Northern Va. Regional Office
 CEDS Site Id: 522
 Site Location: Route 29 to College Street
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Sanitary Landfill [S]
 Inspection Date: 05/16/06
 Inspection Event Code: SNOVWCIR
 Inspection Event Complete Date: Not reported
 Solid Waste Enf Effective Date: Not reported

MAP FINDINGS

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Send NOV w/ CIR to facility
 Flag: WASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: ROUTE 29 TO COLLEGE STREET
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 2018
 Solid Waste Facility Region: Northern Va. Regional Office
 CEDS Site Id: 522
 Site Location: Route 29 to College St
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Sanitary Landfill [S]
 Inspection Date: 02/08/06
 Inspection Event Code: SNOVWCIR
 Inspection Event Complete Date: Not reported
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Solid Waste Full Permit
 Solid Waste Unit Name: Fauquier County Landfill
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported

MAP FINDINGS

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Database(s)

EDR ID Number
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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Send NOV w/ CIR to facility
 Flag: WASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: ROUTE 29 TO COLLEGE STREET
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 2018
 Solid Waste Facility Region: Northern Va. Regional Office
 CEDS Site Id: 522
 Site Location: Route 29 to College St
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Sanitary Landfill [S
 Inspection Date: 02/08/06
 Inspection Event Code: SNOVWCIR
 Inspection Event Complete Date: Not reported
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Solid Waste Full Permit
 Solid Waste Unit Name: Corral Farm Sanitary Landfill
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported

MAP FINDINGS

Map ID
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Database(s)

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Inspection Event Completed Dt: Not reported
Inspection Event Description: Send NOV w/ CIR to facility
Flag: WASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Not reported
Location Address: Not reported
Location Address 2: Not reported
Location City,St,Zip: Not reported
Solid Waste Facility Region: Not reported
CEDS Site Id: Not reported
Site Location: Not reported
Solid Permit Id (alpha Prefix): Not reported
Solid Permit Id (numeric Suffix): Not reported
Solid Waste Unit Type: Not reported
Inspection Date: Not reported
Inspection Event Code: Not reported
Inspection Event Complete Date: Not reported
Solid Waste Enf Effective Date: Not reported
Solid Waste Enf Penalty Type: Not reported
Solid Waste Enf Penalty Amount: Not reported
Solid Waste Enf Type Desc: Not reported
Solid Waste Unit Type: Not reported
Solid Waste Unit Name: Not reported
Haz. Waste Facility Region: Not reported
Haz. Waste Facility Epaid: Not reported
Haz. Waste Enforcement Date: Not reported
Haz. Waste Enforcement Type: Not reported
Haz. Waste Enforcement Agency: Not reported
Haz. Waste Enf RCRIS Comments: Not reported
Haz. Waste Penalty Type: Not reported
Haz. Waste Enf Order Dt. Signed: Not reported
Haz. Waste Enf Order Type: Not reported
Haz. Waste Penalty Amount: Not reported
Type Of Permit: Not reported
Permit No: VAR051470
Enforcement Action Number: NR18-1209
Action: NOTICE OF VIOLATION/NOV
Action Date: 12/13/2018
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: WATER

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Corral Farm Transfer Station

MAP FINDINGS

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Database(s)

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EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Location Address: 8499 Bingham Road
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2189
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): PBR
 Solid Permit Id (numeric Suffix): 625
 Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active
 Inspection Date: 10/24/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 10/24/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Corral Farm Transfer Station
 Location Address: 8499 Bingham Road
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2189
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): PBR
 Solid Permit Id (numeric Suffix): 625
 Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active
 Inspection Date: 10/24/2018
 Inspection Event Code: SNDL

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Inspection Event Complete Date: 11/2/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Corral Farm Transfer Station
 Location Address: 8499 Bingham Road
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2189
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): PBR
 Solid Permit Id (numeric Suffix): 625
 Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active
 Inspection Date: 12/6/2017
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 12/6/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported

MAP FINDINGS

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Database(s)

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EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Corral Farm Transfer Station
 Location Address: 8499 Bingham Road
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2189
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): PBR
 Solid Permit Id (numeric Suffix): 625
 Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active
 Inspection Date: 12/6/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 12/13/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Corral Farm Transfer Station
 Location Address: 8499 Bingham Road
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2189
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): PBR
 Solid Permit Id (numeric Suffix): 625
 Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active
 Inspection Date: 2/13/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 2/13/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Facility ID: Not reported
 Facility Name: Corral Farm Transfer Station
 Location Address: 8499 Bingham Road
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2189
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): PBR
 Solid Permit Id (numeric Suffix): 625
 Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active
 Inspection Date: 2/13/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 2/14/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Corral Farm Transfer Station
 Location Address: 8499 Bingham Road
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2189
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): PBR
 Solid Permit Id (numeric Suffix): 625
 Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Inspection Date: 6/11/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 6/11/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Corral Farm Transfer Station
 Location Address: 8499 Bingham Road
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2189
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): PBR
 Solid Permit Id (numeric Suffix): 625
 Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active
 Inspection Date: 6/11/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 6/19/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Corral Farm Transfer Station
 Location Address: 8499 Bingham Road
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2189
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): PBR
 Solid Permit Id (numeric Suffix): 625
 Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active
 Inspection Date: 8/8/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 8/8/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Corral Farm Transfer Station
Location Address: 8499 Bingham Road
Location Address 2: Not reported
Location City,St,Zip: Warrenton, VA 20187
Solid Waste Facility Region: NVRO
CEDS Site Id: 2189
Site Location: Not reported
Solid Permit Id (alpha Prefix): PBR
Solid Permit Id (numeric Suffix): 625
Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active
Inspection Date: 8/8/2018
Inspection Event Code: SNDL
Inspection Event Complete Date: 8/15/2018
Solid Waste Enf Effective Date: Not reported
Solid Waste Enf Penalty Type: Not reported
Solid Waste Enf Penalty Amount: Not reported
Solid Waste Enf Type Desc: Not reported
Solid Waste Unit Type: Not reported
Solid Waste Unit Name: Not reported
Haz. Waste Facility Region: Not reported
Haz. Waste Facility Epaid: Not reported
Haz. Waste Enforcement Date: Not reported
Haz. Waste Enforcement Type: Not reported
Haz. Waste Enforcement Agency: Not reported
Haz. Waste Enf RCRIS Comments: Not reported
Haz. Waste Penalty Type: Not reported
Haz. Waste Enf Order Dt. Signed: Not reported
Haz. Waste Enf Order Type: Not reported
Haz. Waste Penalty Amount: Not reported
Type Of Permit: Not reported
Permit No: Not reported
Enforcement Action Number: Not reported
Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): PBR
 Solid Permit Id (numeric Suffix): 528
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 10/24/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 10/24/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): PBR

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Permit Id (numeric Suffix): 528
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 10/24/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 10/31/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): PBR
 Solid Permit Id (numeric Suffix): 528
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 10/3/2017
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 10/3/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): PBR
 Solid Permit Id (numeric Suffix): 528
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 10/3/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 10/4/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Permit No: Not reported
Enforcement Action Number: Not reported
Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County CDD MRF
Location Address: 6438 College Street
Location Address 2: Not reported
Location City,St,Zip: Warrenton, VA 20187
Solid Waste Facility Region: NVRO
CEDS Site Id: 2039
Site Location: Adjacent to Corral Farm SLF #575
Solid Permit Id (alpha Prefix): PBR
Solid Permit Id (numeric Suffix): 528
Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
Inspection Date: 2/13/2018
Inspection Event Code: INSPFAC
Inspection Event Complete Date: 2/13/2018
Solid Waste Enf Effective Date: Not reported
Solid Waste Enf Penalty Type: Not reported
Solid Waste Enf Penalty Amount: Not reported
Solid Waste Enf Type Desc: Not reported
Solid Waste Unit Type: Not reported
Solid Waste Unit Name: Not reported
Haz. Waste Facility Region: Not reported
Haz. Waste Facility Epaid: Not reported
Haz. Waste Enforcement Date: Not reported
Haz. Waste Enforcement Type: Not reported
Haz. Waste Enforcement Agency: Not reported
Haz. Waste Enf RCRIS Comments: Not reported
Haz. Waste Penalty Type: Not reported
Haz. Waste Enf Order Dt. Signed: Not reported
Haz. Waste Enf Order Type: Not reported
Haz. Waste Penalty Amount: Not reported
Type Of Permit: Not reported
Permit No: Not reported
Enforcement Action Number: Not reported
Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY

MAP FINDINGS

Map ID
Direction
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Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): PBR
 Solid Permit Id (numeric Suffix): 528
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 2/13/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 2/20/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): PBR
 Solid Permit Id (numeric Suffix): 528
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 6/11/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 6/11/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): PBR
 Solid Permit Id (numeric Suffix): 528
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 6/11/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 6/13/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported

MAP FINDINGS

Map ID
Direction
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Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility EpaId: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): PBR
 Solid Permit Id (numeric Suffix): 528
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 6/27/2017
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 6/27/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility EpaId: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported
Flag:	SOLIDWASTE
Name:	FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address:	6438 COLLEGE ST
Address 2:	Not reported
Address 3:	Not reported
City,State,Zip:	WARRENTON, VA 20187
Facility ID:	Not reported
Facility Name:	Fauquier County CDD MRF
Location Address:	6438 College Street
Location Address 2:	Not reported
Location City,St,Zip:	Warrenton, VA 20187
Solid Waste Facility Region:	NVRO
CEDS Site Id:	2039
Site Location:	Adjacent to Corral Farm SLF #575
Solid Permit Id (alpha Prefix):	PBR
Solid Permit Id (numeric Suffix):	528
Solid Waste Unit Type:	Fauquier County CDD MRF - Materials Recovery Facility - Active
Inspection Date:	6/27/2017
Inspection Event Code:	SNDL
Inspection Event Complete Date:	6/28/2017
Solid Waste Enf Effective Date:	Not reported
Solid Waste Enf Penalty Type:	Not reported
Solid Waste Enf Penalty Amount:	Not reported
Solid Waste Enf Type Desc:	Not reported
Solid Waste Unit Type:	Not reported
Solid Waste Unit Name:	Not reported
Haz. Waste Facility Region:	Not reported
Haz. Waste Facility Epaid:	Not reported
Haz. Waste Enforcement Date:	Not reported
Haz. Waste Enforcement Type:	Not reported
Haz. Waste Enforcement Agency:	Not reported
Haz. Waste Enf RCRIS Comments:	Not reported
Haz. Waste Penalty Type:	Not reported
Haz. Waste Enf Order Dt. Signed:	Not reported
Haz. Waste Enf Order Type:	Not reported
Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported
Flag:	SOLIDWASTE

MAP FINDINGS

Map ID
Direction
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Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County CDD MRF
Location Address: 6438 College Street
Location Address 2: Not reported
Location City,St,Zip: Warrenton, VA 20187
Solid Waste Facility Region: NVRO
CEDS Site Id: 2039
Site Location: Adjacent to Corral Farm SLF #575
Solid Permit Id (alpha Prefix): PBR
Solid Permit Id (numeric Suffix): 528
Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
Inspection Date: 8/28/2017
Inspection Event Code: INSPFAC
Inspection Event Complete Date: 8/28/2017
Solid Waste Enf Effective Date: Not reported
Solid Waste Enf Penalty Type: Not reported
Solid Waste Enf Penalty Amount: Not reported
Solid Waste Enf Type Desc: Not reported
Solid Waste Unit Type: Not reported
Solid Waste Unit Name: Not reported
Haz. Waste Facility Region: Not reported
Haz. Waste Facility Epaid: Not reported
Haz. Waste Enforcement Date: Not reported
Haz. Waste Enforcement Type: Not reported
Haz. Waste Enforcement Agency: Not reported
Haz. Waste Enf RCRIS Comments: Not reported
Haz. Waste Penalty Type: Not reported
Haz. Waste Enf Order Dt. Signed: Not reported
Haz. Waste Enf Order Type: Not reported
Haz. Waste Penalty Amount: Not reported
Type Of Permit: Not reported
Permit No: Not reported
Enforcement Action Number: Not reported
Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County CDD MRF
Location Address: 6438 College Street
Location Address 2: Not reported
Location City,St,Zip: Warrenton, VA 20187
Solid Waste Facility Region: NVRO

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): PBR
 Solid Permit Id (numeric Suffix): 528
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 8/28/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 8/29/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): PBR
 Solid Permit Id (numeric Suffix): 528
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 8/8/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 8/8/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): PBR
 Solid Permit Id (numeric Suffix): 528
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 8/8/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 8/14/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported

MAP FINDINGS

Map ID
Direction
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Elevation

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Enf Order Type:	Not reported
Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported
Flag:	SOLIDWASTE
Name:	FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address:	6438 COLLEGE ST
Address 2:	Not reported
Address 3:	Not reported
City,State,Zip:	WARRENTON, VA 20187
Facility ID:	Not reported
Facility Name:	Fauquier County Solid Waste Management Facility
Location Address:	6438 College Street
Location Address 2:	Not reported
Location City,St,Zip:	Warrenton, VA 20187
Solid Waste Facility Region:	Northern Regional Office
CEDS Site Id:	522
Site Location:	Route 29 to College Street
Solid Permit Id (alpha Prefix):	SWP
Solid Permit Id (numeric Suffix):	149
Solid Waste Unit Type:	Landfill Mining [SW]
Inspection Date:	2/10/2016
Inspection Event Code:	SNOVWCIR
Inspection Event Complete Date:	2/19/2016
Solid Waste Enf Effective Date:	Not reported
Solid Waste Enf Penalty Type:	Not reported
Solid Waste Enf Penalty Amount:	Not reported
Solid Waste Enf Type Desc:	Not reported
Solid Waste Unit Type:	Not reported
Solid Waste Unit Name:	Not reported
Haz. Waste Facility Region:	Not reported
Haz. Waste Facility Epaid:	Not reported
Haz. Waste Enforcement Date:	Not reported
Haz. Waste Enforcement Type:	Not reported
Haz. Waste Enforcement Agency:	Not reported
Haz. Waste Enf RCRIS Comments:	Not reported
Haz. Waste Penalty Type:	Not reported
Haz. Waste Enf Order Dt. Signed:	Not reported
Haz. Waste Enf Order Type:	Not reported
Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported

MAP FINDINGS

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Database(s)

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EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County Solid Waste Management Facility
Location Address: 6438 College Street
Location Address 2: Not reported
Location City,St,Zip: Warrenton, VA 20187
Solid Waste Facility Region: Northern Regional Office
CEDS Site Id: 522
Site Location: Route 29 to College Street
Solid Permit Id (alpha Prefix): SWP
Solid Permit Id (numeric Suffix): 149
Solid Waste Unit Type: Sanitary Landfill [SW]
Inspection Date: 2/10/2016
Inspection Event Code: SNOVWCIR
Inspection Event Complete Date: 2/19/2016
Solid Waste Enf Effective Date: Not reported
Solid Waste Enf Penalty Type: Not reported
Solid Waste Enf Penalty Amount: Not reported
Solid Waste Enf Type Desc: Not reported
Solid Waste Unit Type: Not reported
Solid Waste Unit Name: Not reported
Haz. Waste Facility Region: Not reported
Haz. Waste Facility Epaid: Not reported
Haz. Waste Enforcement Date: Not reported
Haz. Waste Enforcement Type: Not reported
Haz. Waste Enforcement Agency: Not reported
Haz. Waste Enf RCRIS Comments: Not reported
Haz. Waste Penalty Type: Not reported
Haz. Waste Enf Order Dt. Signed: Not reported
Haz. Waste Enf Order Type: Not reported
Haz. Waste Penalty Amount: Not reported
Type Of Permit: Not reported
Permit No: Not reported
Enforcement Action Number: Not reported
Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County Solid Waste Management Facility
Location Address: 6438 College Street
Location Address 2: Not reported

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: Northern Regional Office
 CEDS Site Id: 522
 Site Location: Route 29 to College Street
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Sanitary Landfill [SW]
 Inspection Date: 5/30/2013
 Inspection Event Code: SWLWCIR
 Inspection Event Complete Date: 6/12/2013
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Send warning letter w/CIR to facility
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: Northern Regional Office
 CEDS Site Id: 522
 Site Location: Route 29 to College Street
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Sanitary Landfill [SW]
 Inspection Date: 9/5/2012
 Inspection Event Code: SWLWCIR
 Inspection Event Complete Date: 11/1/2012
 Solid Waste Enf Effective Date: Not reported

MAP FINDINGS

Map ID
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Elevation

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Send warning letter w/CIR to facility
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Active
 Inspection Date: 10/3/2017
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 10/3/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Active
 Inspection Date: 10/3/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 10/5/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Active
 Inspection Date: 12/29/2016
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 12/29/2016
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility

MAP FINDINGS

Map ID
Direction
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Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Active
 Inspection Date: 12/29/2016
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 1/3/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Active
 Inspection Date: 12/6/2017
 Inspection Event Code: INSPFAC

MAP FINDINGS

Map ID
Direction
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Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Inspection Event Complete Date: 12/6/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Active
 Inspection Date: 12/6/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 12/13/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported

MAP FINDINGS

Map ID
Direction
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Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Active
 Inspection Date: 2/10/2017
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 2/10/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported

MAP FINDINGS

Map ID
Direction
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Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Active
 Inspection Date: 2/10/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 2/15/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Active
 Inspection Date: 2/13/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 2/13/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Active

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Inspection Date: 2/13/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 2/20/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Active
 Inspection Date: 4/10/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 4/10/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Active
 Inspection Date: 4/10/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 4/17/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County Solid Waste Management Facility
Location Address: 6438 College Street
Location Address 2: Not reported
Location City,St,Zip: Warrenton, VA 20187
Solid Waste Facility Region: NVRO
CEDS Site Id: 522
Site Location: Not reported
Solid Permit Id (alpha Prefix): SWP
Solid Permit Id (numeric Suffix): 149
Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Active
Inspection Date: 4/26/2017
Inspection Event Code: INSPFAC
Inspection Event Complete Date: 4/26/2017
Solid Waste Enf Effective Date: Not reported
Solid Waste Enf Penalty Type: Not reported
Solid Waste Enf Penalty Amount: Not reported
Solid Waste Enf Type Desc: Not reported
Solid Waste Unit Type: Not reported
Solid Waste Unit Name: Not reported
Haz. Waste Facility Region: Not reported
Haz. Waste Facility Epaid: Not reported
Haz. Waste Enforcement Date: Not reported
Haz. Waste Enforcement Type: Not reported
Haz. Waste Enforcement Agency: Not reported
Haz. Waste Enf RCRIS Comments: Not reported
Haz. Waste Penalty Type: Not reported
Haz. Waste Enf Order Dt. Signed: Not reported
Haz. Waste Enf Order Type: Not reported
Haz. Waste Penalty Amount: Not reported
Type Of Permit: Not reported
Permit No: Not reported
Enforcement Action Number: Not reported
Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Active
 Inspection Date: 4/26/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 5/5/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Active
 Inspection Date: 6/27/2017
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 6/27/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Active
 Inspection Date: 6/27/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 6/29/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Active
 Inspection Date: 8/28/2017
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 8/28/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Permit No: Not reported
Enforcement Action Number: Not reported
Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County Solid Waste Management Facility
Location Address: 6438 College Street
Location Address 2: Not reported
Location City,St,Zip: Warrenton, VA 20187
Solid Waste Facility Region: NVRO
CEDS Site Id: 522
Site Location: Not reported
Solid Permit Id (alpha Prefix): SWP
Solid Permit Id (numeric Suffix): 149
Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Active
Inspection Date: 8/28/2017
Inspection Event Code: SNDL
Inspection Event Complete Date: 9/6/2017
Solid Waste Enf Effective Date: Not reported
Solid Waste Enf Penalty Type: Not reported
Solid Waste Enf Penalty Amount: Not reported
Solid Waste Enf Type Desc: Not reported
Solid Waste Unit Type: Not reported
Solid Waste Unit Name: Not reported
Haz. Waste Facility Region: Not reported
Haz. Waste Facility Epaid: Not reported
Haz. Waste Enforcement Date: Not reported
Haz. Waste Enforcement Type: Not reported
Haz. Waste Enforcement Agency: Not reported
Haz. Waste Enf RCRIS Comments: Not reported
Haz. Waste Penalty Type: Not reported
Haz. Waste Enf Order Dt. Signed: Not reported
Haz. Waste Enf Order Type: Not reported
Haz. Waste Penalty Amount: Not reported
Type Of Permit: Not reported
Permit No: Not reported
Enforcement Action Number: Not reported
Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 10/24/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 10/24/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 10/24/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 11/5/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 6/11/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 6/11/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility EpaId: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 6/11/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 6/13/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility EpaId: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported
Flag:	SOLIDWASTE
Name:	FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address:	6438 COLLEGE ST
Address 2:	Not reported
Address 3:	Not reported
City,State,Zip:	WARRENTON, VA 20187
Facility ID:	Not reported
Facility Name:	Fauquier County Solid Waste Management Facility
Location Address:	6438 College Street
Location Address 2:	Not reported
Location City,St,Zip:	Warrenton, VA 20187
Solid Waste Facility Region:	NVRO
CEDS Site Id:	522
Site Location:	Not reported
Solid Permit Id (alpha Prefix):	SWP
Solid Permit Id (numeric Suffix):	149
Solid Waste Unit Type:	Fauquier County Landfill - Sanitary Landfill - Inactive
Inspection Date:	8/8/2018
Inspection Event Code:	INSPFAC
Inspection Event Complete Date:	8/8/2018
Solid Waste Enf Effective Date:	Not reported
Solid Waste Enf Penalty Type:	Not reported
Solid Waste Enf Penalty Amount:	Not reported
Solid Waste Enf Type Desc:	Not reported
Solid Waste Unit Type:	Not reported
Solid Waste Unit Name:	Not reported
Haz. Waste Facility Region:	Not reported
Haz. Waste Facility Epaid:	Not reported
Haz. Waste Enforcement Date:	Not reported
Haz. Waste Enforcement Type:	Not reported
Haz. Waste Enforcement Agency:	Not reported
Haz. Waste Enf RCRIS Comments:	Not reported
Haz. Waste Penalty Type:	Not reported
Haz. Waste Enf Order Dt. Signed:	Not reported
Haz. Waste Enf Order Type:	Not reported
Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported
Flag:	SOLIDWASTE

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 149
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 8/8/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 8/27/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 10/24/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 10/24/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 10/24/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 11/7/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 10/27/2016
 Inspection Event Code: SWL
 Inspection Event Complete Date: 3/31/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported

MAP FINDINGS

Map ID
Direction
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Elevation

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Enf Order Type:	Not reported
Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported
Flag:	SOLIDWASTE
Name:	FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address:	6438 COLLEGE ST
Address 2:	Not reported
Address 3:	Not reported
City,State,Zip:	WARRENTON, VA 20187
Facility ID:	Not reported
Facility Name:	Fauquier County Solid Waste Management Facility
Location Address:	6438 College Street
Location Address 2:	Not reported
Location City,St,Zip:	Warrenton, VA 20187
Solid Waste Facility Region:	NVRO
CEDS Site Id:	522
Site Location:	Not reported
Solid Permit Id (alpha Prefix):	SWP
Solid Permit Id (numeric Suffix):	575
Solid Waste Unit Type:	Corral Farm Sanitary Landfill - Sanitary Landfill - Active
Inspection Date:	10/3/2017
Inspection Event Code:	INSPFAC
Inspection Event Complete Date:	10/3/2017
Solid Waste Enf Effective Date:	Not reported
Solid Waste Enf Penalty Type:	Not reported
Solid Waste Enf Penalty Amount:	Not reported
Solid Waste Enf Type Desc:	Not reported
Solid Waste Unit Type:	Not reported
Solid Waste Unit Name:	Not reported
Haz. Waste Facility Region:	Not reported
Haz. Waste Facility Epaid:	Not reported
Haz. Waste Enforcement Date:	Not reported
Haz. Waste Enforcement Type:	Not reported
Haz. Waste Enforcement Agency:	Not reported
Haz. Waste Enf RCRIS Comments:	Not reported
Haz. Waste Penalty Type:	Not reported
Haz. Waste Enf Order Dt. Signed:	Not reported
Haz. Waste Enf Order Type:	Not reported
Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported

MAP FINDINGS

Map ID
Direction
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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County Solid Waste Management Facility
Location Address: 6438 College Street
Location Address 2: Not reported
Location City,St,Zip: Warrenton, VA 20187
Solid Waste Facility Region: NVRO
CEDS Site Id: 522
Site Location: Not reported
Solid Permit Id (alpha Prefix): SWP
Solid Permit Id (numeric Suffix): 575
Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
Inspection Date: 10/3/2017
Inspection Event Code: SNDL
Inspection Event Complete Date: 10/6/2017
Solid Waste Enf Effective Date: Not reported
Solid Waste Enf Penalty Type: Not reported
Solid Waste Enf Penalty Amount: Not reported
Solid Waste Enf Type Desc: Not reported
Solid Waste Unit Type: Not reported
Solid Waste Unit Name: Not reported
Haz. Waste Facility Region: Not reported
Haz. Waste Facility Epaid: Not reported
Haz. Waste Enforcement Date: Not reported
Haz. Waste Enforcement Type: Not reported
Haz. Waste Enforcement Agency: Not reported
Haz. Waste Enf RCRIS Comments: Not reported
Haz. Waste Penalty Type: Not reported
Haz. Waste Enf Order Dt. Signed: Not reported
Haz. Waste Enf Order Type: Not reported
Haz. Waste Penalty Amount: Not reported
Type Of Permit: Not reported
Permit No: Not reported
Enforcement Action Number: Not reported
Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County Solid Waste Management Facility
Location Address: 6438 College Street
Location Address 2: Not reported

MAP FINDINGS

Map ID
Direction
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Elevation

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 12/29/2016
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 12/29/2016
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 12/29/2016
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 1/3/2017
 Solid Waste Enf Effective Date: Not reported

MAP FINDINGS

Map ID
Direction
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Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 12/6/2017
 Inspection Event Code: DATERESP
 Inspection Event Complete Date: 1/3/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported

MAP FINDINGS

Map ID
 Direction
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 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 12/6/2017
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 12/6/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported

MAP FINDINGS

Map ID
Direction
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Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 12/6/2017
 Inspection Event Code: SDL
 Inspection Event Complete Date: 1/22/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility

MAP FINDINGS

Map ID
Direction
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Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 2/10/2017
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 2/10/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 2/10/2017
 Inspection Event Code: SNDL

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Inspection Event Complete Date: 2/21/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 2/13/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 2/13/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported

MAP FINDINGS

Map ID
Direction
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Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 2/13/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 2/22/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 4/10/2018
 Inspection Event Code: DATERESP
 Inspection Event Complete Date: 4/24/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 4/10/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 4/10/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Inspection Date: 4/10/2018
 Inspection Event Code: SWL
 Inspection Event Complete Date: 4/24/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 4/26/2017
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 4/26/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 4/26/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 4/28/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported
Flag:	SOLIDWASTE
Name:	FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address:	6438 COLLEGE ST
Address 2:	Not reported
Address 3:	Not reported
City,State,Zip:	WARRENTON, VA 20187
Facility ID:	Not reported
Facility Name:	Fauquier County Solid Waste Management Facility
Location Address:	6438 College Street
Location Address 2:	Not reported
Location City,St,Zip:	Warrenton, VA 20187
Solid Waste Facility Region:	NVRO
CEDS Site Id:	522
Site Location:	Not reported
Solid Permit Id (alpha Prefix):	SWP
Solid Permit Id (numeric Suffix):	575
Solid Waste Unit Type:	Corral Farm Sanitary Landfill - Sanitary Landfill - Active
Inspection Date:	6/11/2018
Inspection Event Code:	INSPFAC
Inspection Event Complete Date:	6/11/2018
Solid Waste Enf Effective Date:	Not reported
Solid Waste Enf Penalty Type:	Not reported
Solid Waste Enf Penalty Amount:	Not reported
Solid Waste Enf Type Desc:	Not reported
Solid Waste Unit Type:	Not reported
Solid Waste Unit Name:	Not reported
Haz. Waste Facility Region:	Not reported
Haz. Waste Facility Epaid:	Not reported
Haz. Waste Enforcement Date:	Not reported
Haz. Waste Enforcement Type:	Not reported
Haz. Waste Enforcement Agency:	Not reported
Haz. Waste Enf RCRIS Comments:	Not reported
Haz. Waste Penalty Type:	Not reported
Haz. Waste Enf Order Dt. Signed:	Not reported
Haz. Waste Enf Order Type:	Not reported
Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported
Flag:	SOLIDWASTE
Name:	FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address:	6438 COLLEGE ST
Address 2:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County Solid Waste Management Facility
Location Address: 6438 College Street
Location Address 2: Not reported
Location City,St,Zip: Warrenton, VA 20187
Solid Waste Facility Region: NVRO
CEDS Site Id: 522
Site Location: Not reported
Solid Permit Id (alpha Prefix): SWP
Solid Permit Id (numeric Suffix): 575
Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
Inspection Date: 6/11/2018
Inspection Event Code: SNDL
Inspection Event Complete Date: 6/15/2018
Solid Waste Enf Effective Date: Not reported
Solid Waste Enf Penalty Type: Not reported
Solid Waste Enf Penalty Amount: Not reported
Solid Waste Enf Type Desc: Not reported
Solid Waste Unit Type: Not reported
Solid Waste Unit Name: Not reported
Haz. Waste Facility Region: Not reported
Haz. Waste Facility Epaid: Not reported
Haz. Waste Enforcement Date: Not reported
Haz. Waste Enforcement Type: Not reported
Haz. Waste Enforcement Agency: Not reported
Haz. Waste Enf RCRIS Comments: Not reported
Haz. Waste Penalty Type: Not reported
Haz. Waste Enf Order Dt. Signed: Not reported
Haz. Waste Enf Order Type: Not reported
Haz. Waste Penalty Amount: Not reported
Type Of Permit: Not reported
Permit No: Not reported
Enforcement Action Number: Not reported
Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County Solid Waste Management Facility
Location Address: 6438 College Street
Location Address 2: Not reported
Location City,St,Zip: Warrenton, VA 20187
Solid Waste Facility Region: NVRO
CEDS Site Id: 522
Site Location: Not reported
Solid Permit Id (alpha Prefix): SWP

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 6/27/2017
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 6/27/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: FAUQUIER COUNTY SOLID WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): SWP
 Solid Permit Id (numeric Suffix): 575
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 6/27/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 6/29/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 6/27/2017
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 6/27/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 6/27/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 6/29/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 7/19/2016
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 7/19/2016
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 7/19/2016
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 7/25/2016
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 7/2/2019
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 7/2/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 7/2/2019
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 7/8/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported
Flag:	SOLIDWASTE
Name:	CORRAL FARM WASTE MANAGEMENT FACILITY
Address:	6438 COLLEGE ST
Address 2:	Not reported
Address 3:	Not reported
City,State,Zip:	WARRENTON, VA 20187
Facility ID:	Not reported
Facility Name:	Fauquier County Solid Waste Management Facility
Location Address:	6438 College Street
Location Address 2:	Not reported
Location City,St,Zip:	Warrenton, VA 20187
Solid Waste Facility Region:	NVRO
CEDS Site Id:	522
Site Location:	Not reported
Solid Permit Id (alpha Prefix):	Not reported
Solid Permit Id (numeric Suffix):	Not reported
Solid Waste Unit Type:	Corral Farm Sanitary Landfill - Sanitary Landfill - Active
Inspection Date:	8/28/2017
Inspection Event Code:	INSPFAC
Inspection Event Complete Date:	8/28/2017
Solid Waste Enf Effective Date:	Not reported
Solid Waste Enf Penalty Type:	Not reported
Solid Waste Enf Penalty Amount:	Not reported
Solid Waste Enf Type Desc:	Not reported
Solid Waste Unit Type:	Not reported
Solid Waste Unit Name:	Not reported
Haz. Waste Facility Region:	Not reported
Haz. Waste Facility Epaid:	Not reported
Haz. Waste Enforcement Date:	Not reported
Haz. Waste Enforcement Type:	Not reported
Haz. Waste Enforcement Agency:	Not reported
Haz. Waste Enf RCRIS Comments:	Not reported
Haz. Waste Penalty Type:	Not reported
Haz. Waste Enf Order Dt. Signed:	Not reported
Haz. Waste Enf Order Type:	Not reported
Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported
Flag:	SOLIDWASTE

MAP FINDINGS

Map ID
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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 8/28/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 8/31/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO

MAP FINDINGS

Map ID
Direction
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Elevation

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 8/8/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 8/8/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 8/8/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 8/23/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 1/8/2019
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 1/8/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Enf Order Type:	Not reported
Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported
Flag:	SOLIDWASTE
Name:	CORRAL FARM WASTE MANAGEMENT FACILITY
Address:	6438 COLLEGE ST
Address 2:	Not reported
Address 3:	Not reported
City,State,Zip:	WARRENTON, VA 20187
Facility ID:	Not reported
Facility Name:	Fauquier County Solid Waste Management Facility
Location Address:	6438 College Street
Location Address 2:	Not reported
Location City,St,Zip:	Warrenton, VA 20187
Solid Waste Facility Region:	NVRO
CEDS Site Id:	522
Site Location:	Not reported
Solid Permit Id (alpha Prefix):	Not reported
Solid Permit Id (numeric Suffix):	Not reported
Solid Waste Unit Type:	Fauquier County Landfill - Sanitary Landfill - Inactive
Inspection Date:	1/8/2019
Inspection Event Code:	SNDL
Inspection Event Complete Date:	1/25/2019
Solid Waste Enf Effective Date:	Not reported
Solid Waste Enf Penalty Type:	Not reported
Solid Waste Enf Penalty Amount:	Not reported
Solid Waste Enf Type Desc:	Not reported
Solid Waste Unit Type:	Not reported
Solid Waste Unit Name:	Not reported
Haz. Waste Facility Region:	Not reported
Haz. Waste Facility Epaid:	Not reported
Haz. Waste Enforcement Date:	Not reported
Haz. Waste Enforcement Type:	Not reported
Haz. Waste Enforcement Agency:	Not reported
Haz. Waste Enf RCRIS Comments:	Not reported
Haz. Waste Penalty Type:	Not reported
Haz. Waste Enf Order Dt. Signed:	Not reported
Haz. Waste Enf Order Type:	Not reported
Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported

MAP FINDINGS

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Database(s)

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EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County Solid Waste Management Facility
Location Address: 6438 College Street
Location Address 2: Not reported
Location City,St,Zip: Warrenton, VA 20187
Solid Waste Facility Region: NVRO
CEDS Site Id: 522
Site Location: Not reported
Solid Permit Id (alpha Prefix): Not reported
Solid Permit Id (numeric Suffix): Not reported
Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
Inspection Date: 10/24/2018
Inspection Event Code: INSPFAC
Inspection Event Complete Date: 10/24/2018
Solid Waste Enf Effective Date: Not reported
Solid Waste Enf Penalty Type: Not reported
Solid Waste Enf Penalty Amount: Not reported
Solid Waste Enf Type Desc: Not reported
Solid Waste Unit Type: Not reported
Solid Waste Unit Name: Not reported
Haz. Waste Facility Region: Not reported
Haz. Waste Facility Epaid: Not reported
Haz. Waste Enforcement Date: Not reported
Haz. Waste Enforcement Type: Not reported
Haz. Waste Enforcement Agency: Not reported
Haz. Waste Enf RCRIS Comments: Not reported
Haz. Waste Penalty Type: Not reported
Haz. Waste Enf Order Dt. Signed: Not reported
Haz. Waste Enf Order Type: Not reported
Haz. Waste Penalty Amount: Not reported
Type Of Permit: Not reported
Permit No: Not reported
Enforcement Action Number: Not reported
Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County Solid Waste Management Facility
Location Address: 6438 College Street
Location Address 2: Not reported

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 10/24/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 11/5/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 10/27/2016
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 10/27/2016
 Solid Waste Enf Effective Date: Not reported

MAP FINDINGS

Map ID
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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 10/27/2016
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 11/15/2016
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported

MAP FINDINGS

Map ID
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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 10/3/2017
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 10/3/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported

MAP FINDINGS

Map ID
Direction
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Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 10/3/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 10/5/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility

MAP FINDINGS

Map ID
Direction
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Elevation

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 10/9/2019
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 10/9/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 10/9/2019
 Inspection Event Code: SNDL

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Inspection Event Complete Date: 10/18/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 12/29/2016
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 12/29/2016
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 12/29/2016
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 1/3/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported

MAP FINDINGS

Map ID
Direction
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Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 12/6/2017
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 12/6/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 12/6/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 12/13/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive

MAP FINDINGS

Map ID
Direction
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Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Inspection Date: 2/10/2017
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 2/10/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 2/10/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 2/15/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported

MAP FINDINGS

Map ID
Direction
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Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 2/13/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 2/13/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported

MAP FINDINGS

Map ID
Direction
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Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County Solid Waste Management Facility
Location Address: 6438 College Street
Location Address 2: Not reported
Location City,St,Zip: Warrenton, VA 20187
Solid Waste Facility Region: NVRO
CEDS Site Id: 522
Site Location: Not reported
Solid Permit Id (alpha Prefix): Not reported
Solid Permit Id (numeric Suffix): Not reported
Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
Inspection Date: 2/13/2018
Inspection Event Code: SNDL
Inspection Event Complete Date: 2/20/2018
Solid Waste Enf Effective Date: Not reported
Solid Waste Enf Penalty Type: Not reported
Solid Waste Enf Penalty Amount: Not reported
Solid Waste Enf Type Desc: Not reported
Solid Waste Unit Type: Not reported
Solid Waste Unit Name: Not reported
Haz. Waste Facility Region: Not reported
Haz. Waste Facility Epaid: Not reported
Haz. Waste Enforcement Date: Not reported
Haz. Waste Enforcement Type: Not reported
Haz. Waste Enforcement Agency: Not reported
Haz. Waste Enf RCRIS Comments: Not reported
Haz. Waste Penalty Type: Not reported
Haz. Waste Enf Order Dt. Signed: Not reported
Haz. Waste Enf Order Type: Not reported
Haz. Waste Penalty Amount: Not reported
Type Of Permit: Not reported
Permit No: Not reported
Enforcement Action Number: Not reported
Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 4/10/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 4/10/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE - MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported

MAP FINDINGS

Map ID
Direction
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Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 4/10/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 4/17/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 4/17/2019
 Inspection Event Code: DATERESP
 Inspection Event Complete Date: 6/28/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported

MAP FINDINGS

Map ID
Direction
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Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 4/17/2019
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 4/17/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 4/17/2019
 Inspection Event Code: SWL
 Inspection Event Complete Date: 5/13/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 4/26/2017
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 4/26/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 4/26/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 5/5/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 6/11/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 6/11/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility EpaId: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 6/11/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 6/13/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility EpaId: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported

MAP FINDINGS

Map ID
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Elevation

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported
Flag:	SOLIDWASTE
Name:	CORRAL FARM WASTE MANAGEMENT FACILITY
Address:	6438 COLLEGE ST
Address 2:	Not reported
Address 3:	Not reported
City,State,Zip:	WARRENTON, VA 20187
Facility ID:	Not reported
Facility Name:	Fauquier County Solid Waste Management Facility
Location Address:	6438 College Street
Location Address 2:	Not reported
Location City,St,Zip:	Warrenton, VA 20187
Solid Waste Facility Region:	NVRO
CEDS Site Id:	522
Site Location:	Not reported
Solid Permit Id (alpha Prefix):	Not reported
Solid Permit Id (numeric Suffix):	Not reported
Solid Waste Unit Type:	Fauquier County Landfill - Sanitary Landfill - Inactive
Inspection Date:	6/27/2017
Inspection Event Code:	INSPFAC
Inspection Event Complete Date:	6/27/2017
Solid Waste Enf Effective Date:	Not reported
Solid Waste Enf Penalty Type:	Not reported
Solid Waste Enf Penalty Amount:	Not reported
Solid Waste Enf Type Desc:	Not reported
Solid Waste Unit Type:	Not reported
Solid Waste Unit Name:	Not reported
Haz. Waste Facility Region:	Not reported
Haz. Waste Facility Epaid:	Not reported
Haz. Waste Enforcement Date:	Not reported
Haz. Waste Enforcement Type:	Not reported
Haz. Waste Enforcement Agency:	Not reported
Haz. Waste Enf RCRIS Comments:	Not reported
Haz. Waste Penalty Type:	Not reported
Haz. Waste Enf Order Dt. Signed:	Not reported
Haz. Waste Enf Order Type:	Not reported
Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported
Flag:	SOLIDWASTE

MAP FINDINGS

Map ID
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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 6/27/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 6/29/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 7/19/2016
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 7/19/2016
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 7/19/2016
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 7/26/2016
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported

MAP FINDINGS

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Database(s)

EDR ID Number
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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 7/2/2019
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 7/2/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Enf Order Type:	Not reported
Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported
Flag:	SOLIDWASTE
Name:	CORRAL FARM WASTE MANAGEMENT FACILITY
Address:	6438 COLLEGE ST
Address 2:	Not reported
Address 3:	Not reported
City,State,Zip:	WARRENTON, VA 20187
Facility ID:	Not reported
Facility Name:	Fauquier County Solid Waste Management Facility
Location Address:	6438 College Street
Location Address 2:	Not reported
Location City,St,Zip:	Warrenton, VA 20187
Solid Waste Facility Region:	NVRO
CEDS Site Id:	522
Site Location:	Not reported
Solid Permit Id (alpha Prefix):	Not reported
Solid Permit Id (numeric Suffix):	Not reported
Solid Waste Unit Type:	Fauquier County Landfill - Sanitary Landfill - Inactive
Inspection Date:	7/2/2019
Inspection Event Code:	SNDL
Inspection Event Complete Date:	7/9/2019
Solid Waste Enf Effective Date:	Not reported
Solid Waste Enf Penalty Type:	Not reported
Solid Waste Enf Penalty Amount:	Not reported
Solid Waste Enf Type Desc:	Not reported
Solid Waste Unit Type:	Not reported
Solid Waste Unit Name:	Not reported
Haz. Waste Facility Region:	Not reported
Haz. Waste Facility Epaid:	Not reported
Haz. Waste Enforcement Date:	Not reported
Haz. Waste Enforcement Type:	Not reported
Haz. Waste Enforcement Agency:	Not reported
Haz. Waste Enf RCRIS Comments:	Not reported
Haz. Waste Penalty Type:	Not reported
Haz. Waste Enf Order Dt. Signed:	Not reported
Haz. Waste Enf Order Type:	Not reported
Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported

MAP FINDINGS

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Database(s)

EDR ID Number
 EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 8/28/2017
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 8/28/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 8/28/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 9/6/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 8/8/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 8/8/2018
 Solid Waste Enf Effective Date: Not reported

MAP FINDINGS

Map ID
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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 8/8/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 8/27/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported

MAP FINDINGS

Map ID
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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Penalty Type:	Not reported
Haz. Waste Enf Order Dt. Signed:	Not reported
Haz. Waste Enf Order Type:	Not reported
Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported
Flag:	SOLIDWASTE
Name:	CORRAL FARM WASTE MANAGEMENT FACILITY
Address:	6438 COLLEGE ST
Address 2:	Not reported
Address 3:	Not reported
City,State,Zip:	WARRENTON, VA 20187
Facility ID:	Not reported
Facility Name:	Corral Farm Transfer Station
Location Address:	8499 Bingham Road
Location Address 2:	Not reported
Location City,St,Zip:	Warrenton, VA 20187
Solid Waste Facility Region:	NVRO
CEDS Site Id:	2189
Site Location:	Not reported
Solid Permit Id (alpha Prefix):	Not reported
Solid Permit Id (numeric Suffix):	Not reported
Solid Waste Unit Type:	Corral Farm Transfer Station - Transfer Station - Active
Inspection Date:	4/17/2019
Inspection Event Code:	INSPFAC
Inspection Event Complete Date:	4/17/2019
Solid Waste Enf Effective Date:	Not reported
Solid Waste Enf Penalty Type:	Not reported
Solid Waste Enf Penalty Amount:	Not reported
Solid Waste Enf Type Desc:	Not reported
Solid Waste Unit Type:	Not reported
Solid Waste Unit Name:	Not reported
Haz. Waste Facility Region:	Not reported
Haz. Waste Facility Epaid:	Not reported
Haz. Waste Enforcement Date:	Not reported
Haz. Waste Enforcement Type:	Not reported
Haz. Waste Enforcement Agency:	Not reported
Haz. Waste Enf RCRIS Comments:	Not reported
Haz. Waste Penalty Type:	Not reported
Haz. Waste Enf Order Dt. Signed:	Not reported
Haz. Waste Enf Order Type:	Not reported
Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported

MAP FINDINGS

Map ID
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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Corral Farm Transfer Station
 Location Address: 8499 Bingham Road
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2189
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active
 Inspection Date: 4/17/2019
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 4/25/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Corral Farm Transfer Station

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Location Address: 8499 Bingham Road
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2189
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active
 Inspection Date: 6/11/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 6/11/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Corral Farm Transfer Station
 Location Address: 8499 Bingham Road
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2189
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active
 Inspection Date: 6/11/2018
 Inspection Event Code: SNDL

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Inspection Event Complete Date: 6/19/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Corral Farm Transfer Station
 Location Address: 8499 Bingham Road
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2189
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active
 Inspection Date: 7/2/2019
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 7/2/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Corral Farm Transfer Station
 Location Address: 8499 Bingham Road
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2189
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active
 Inspection Date: 7/2/2019
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 7/9/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Corral Farm Transfer Station
 Location Address: 8499 Bingham Road
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2189
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active
 Inspection Date: 8/8/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 8/8/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Facility ID: Not reported
 Facility Name: Corral Farm Transfer Station
 Location Address: 8499 Bingham Road
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2189
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Transfer Station - Transfer Station - Active
 Inspection Date: 8/8/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 8/15/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Inspection Date: 1/8/2019
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 1/8/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 1/8/2019
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 1/10/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 10/24/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 10/24/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County CDD MRF
Location Address: 6438 College Street
Location Address 2: Not reported
Location City,St,Zip: Warrenton, VA 20187
Solid Waste Facility Region: NVRO
CEDS Site Id: 2039
Site Location: Adjacent to Corral Farm SLF #575
Solid Permit Id (alpha Prefix): Not reported
Solid Permit Id (numeric Suffix): Not reported
Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
Inspection Date: 10/24/2018
Inspection Event Code: SNDL
Inspection Event Complete Date: 10/31/2018
Solid Waste Enf Effective Date: Not reported
Solid Waste Enf Penalty Type: Not reported
Solid Waste Enf Penalty Amount: Not reported
Solid Waste Enf Type Desc: Not reported
Solid Waste Unit Type: Not reported
Solid Waste Unit Name: Not reported
Haz. Waste Facility Region: Not reported
Haz. Waste Facility Epaid: Not reported
Haz. Waste Enforcement Date: Not reported
Haz. Waste Enforcement Type: Not reported
Haz. Waste Enforcement Agency: Not reported
Haz. Waste Enf RCRIS Comments: Not reported
Haz. Waste Penalty Type: Not reported
Haz. Waste Enf Order Dt. Signed: Not reported
Haz. Waste Enf Order Type: Not reported
Haz. Waste Penalty Amount: Not reported
Type Of Permit: Not reported
Permit No: Not reported
Enforcement Action Number: Not reported
Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County CDD MRF
Location Address: 6438 College Street
Location Address 2: Not reported
Location City,St,Zip: Warrenton, VA 20187
Solid Waste Facility Region: NVRO
CEDs Site Id: 2039
Site Location: Adjacent to Corral Farm SLF #575
Solid Permit Id (alpha Prefix): Not reported
Solid Permit Id (numeric Suffix): Not reported
Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
Inspection Date: 10/26/2016
Inspection Event Code: INSPFAC
Inspection Event Complete Date: 10/26/2016
Solid Waste Enf Effective Date: Not reported
Solid Waste Enf Penalty Type: Not reported
Solid Waste Enf Penalty Amount: Not reported
Solid Waste Enf Type Desc: Not reported
Solid Waste Unit Type: Not reported
Solid Waste Unit Name: Not reported
Haz. Waste Facility Region: Not reported
Haz. Waste Facility Epaid: Not reported
Haz. Waste Enforcement Date: Not reported
Haz. Waste Enforcement Type: Not reported
Haz. Waste Enforcement Agency: Not reported
Haz. Waste Enf RCRIS Comments: Not reported
Haz. Waste Penalty Type: Not reported
Haz. Waste Enf Order Dt. Signed: Not reported
Haz. Waste Enf Order Type: Not reported
Haz. Waste Penalty Amount: Not reported
Type Of Permit: Not reported
Permit No: Not reported
Enforcement Action Number: Not reported
Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County CDD MRF
Location Address: 6438 College Street
Location Address 2: Not reported
Location City,St,Zip: Warrenton, VA 20187
Solid Waste Facility Region: NVRO
CEDs Site Id: 2039
Site Location: Adjacent to Corral Farm SLF #575
Solid Permit Id (alpha Prefix): Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 10/26/2016
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 11/1/2016
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 10/3/2017
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 10/3/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 10/3/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 10/4/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 10/9/2019
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 10/9/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 10/9/2019
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 10/17/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039

MAP FINDINGS

Map ID
Direction
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Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 2/10/2017
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 2/10/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 2/10/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 2/14/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported

MAP FINDINGS

Map ID
Direction
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Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Waste Unit Type: Not reported
Solid Waste Unit Name: Not reported
Haz. Waste Facility Region: Not reported
Haz. Waste Facility EpaId: Not reported
Haz. Waste Enforcement Date: Not reported
Haz. Waste Enforcement Type: Not reported
Haz. Waste Enforcement Agency: Not reported
Haz. Waste Enf RCRIS Comments: Not reported
Haz. Waste Penalty Type: Not reported
Haz. Waste Enf Order Dt. Signed: Not reported
Haz. Waste Enf Order Type: Not reported
Haz. Waste Penalty Amount: Not reported
Type Of Permit: Not reported
Permit No: Not reported
Enforcement Action Number: Not reported
Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County CDD MRF
Location Address: 6438 College Street
Location Address 2: Not reported
Location City,St,Zip: Warrenton, VA 20187
Solid Waste Facility Region: NVRO
CEDS Site Id: 2039
Site Location: Adjacent to Corral Farm SLF #575
Solid Permit Id (alpha Prefix): Not reported
Solid Permit Id (numeric Suffix): Not reported
Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
Inspection Date: 2/13/2018
Inspection Event Code: INSPFAC
Inspection Event Complete Date: 2/13/2018
Solid Waste Enf Effective Date: Not reported
Solid Waste Enf Penalty Type: Not reported
Solid Waste Enf Penalty Amount: Not reported
Solid Waste Enf Type Desc: Not reported
Solid Waste Unit Type: Not reported
Solid Waste Unit Name: Not reported
Haz. Waste Facility Region: Not reported
Haz. Waste Facility EpaId: Not reported
Haz. Waste Enforcement Date: Not reported
Haz. Waste Enforcement Type: Not reported
Haz. Waste Enforcement Agency: Not reported
Haz. Waste Enf RCRIS Comments: Not reported
Haz. Waste Penalty Type: Not reported
Haz. Waste Enf Order Dt. Signed: Not reported
Haz. Waste Enf Order Type: Not reported

MAP FINDINGS

Map ID
Direction
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Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 2/13/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 2/20/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

MAP FINDINGS

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Elevation

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 4/17/2019
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 4/17/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 4/17/2019
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 4/22/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 4/26/2017
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 4/26/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 4/26/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 4/27/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Enf Order Type:	Not reported
Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported
Flag:	SOLIDWASTE
Name:	CORRAL FARM WASTE MANAGEMENT FACILITY
Address:	6438 COLLEGE ST
Address 2:	Not reported
Address 3:	Not reported
City,State,Zip:	WARRENTON, VA 20187
Facility ID:	Not reported
Facility Name:	Fauquier County CDD MRF
Location Address:	6438 College Street
Location Address 2:	Not reported
Location City,St,Zip:	Warrenton, VA 20187
Solid Waste Facility Region:	NVRO
CEDS Site Id:	2039
Site Location:	Adjacent to Corral Farm SLF #575
Solid Permit Id (alpha Prefix):	Not reported
Solid Permit Id (numeric Suffix):	Not reported
Solid Waste Unit Type:	Fauquier County CDD MRF - Materials Recovery Facility - Active
Inspection Date:	6/11/2018
Inspection Event Code:	INSPFAC
Inspection Event Complete Date:	6/11/2018
Solid Waste Enf Effective Date:	Not reported
Solid Waste Enf Penalty Type:	Not reported
Solid Waste Enf Penalty Amount:	Not reported
Solid Waste Enf Type Desc:	Not reported
Solid Waste Unit Type:	Not reported
Solid Waste Unit Name:	Not reported
Haz. Waste Facility Region:	Not reported
Haz. Waste Facility Epaid:	Not reported
Haz. Waste Enforcement Date:	Not reported
Haz. Waste Enforcement Type:	Not reported
Haz. Waste Enforcement Agency:	Not reported
Haz. Waste Enf RCRIS Comments:	Not reported
Haz. Waste Penalty Type:	Not reported
Haz. Waste Enf Order Dt. Signed:	Not reported
Haz. Waste Enf Order Type:	Not reported
Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported

MAP FINDINGS

Map ID
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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County CDD MRF
Location Address: 6438 College Street
Location Address 2: Not reported
Location City,St,Zip: Warrenton, VA 20187
Solid Waste Facility Region: NVRO
CEDS Site Id: 2039
Site Location: Adjacent to Corral Farm SLF #575
Solid Permit Id (alpha Prefix): Not reported
Solid Permit Id (numeric Suffix): Not reported
Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
Inspection Date: 6/11/2018
Inspection Event Code: SNDL
Inspection Event Complete Date: 6/13/2018
Solid Waste Enf Effective Date: Not reported
Solid Waste Enf Penalty Type: Not reported
Solid Waste Enf Penalty Amount: Not reported
Solid Waste Enf Type Desc: Not reported
Solid Waste Unit Type: Not reported
Solid Waste Unit Name: Not reported
Haz. Waste Facility Region: Not reported
Haz. Waste Facility Epaid: Not reported
Haz. Waste Enforcement Date: Not reported
Haz. Waste Enforcement Type: Not reported
Haz. Waste Enforcement Agency: Not reported
Haz. Waste Enf RCRIS Comments: Not reported
Haz. Waste Penalty Type: Not reported
Haz. Waste Enf Order Dt. Signed: Not reported
Haz. Waste Enf Order Type: Not reported
Haz. Waste Penalty Amount: Not reported
Type Of Permit: Not reported
Permit No: Not reported
Enforcement Action Number: Not reported
Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County CDD MRF
Location Address: 6438 College Street
Location Address 2: Not reported

MAP FINDINGS

Map ID
Direction
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Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 6/27/2017
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 6/27/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 6/27/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 6/28/2017
 Solid Waste Enf Effective Date: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 7/19/2016
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 7/19/2016
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 7/19/2016
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 7/25/2016
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 7/2/2019
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 7/2/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 7/2/2019
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 7/3/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 8/28/2017
 Inspection Event Code: INSPFAC

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Inspection Event Complete Date: 8/28/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 8/28/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 8/31/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 8/8/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 8/8/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County CDD MRF
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 2039
 Site Location: Adjacent to Corral Farm SLF #575
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County CDD MRF - Materials Recovery Facility - Active
 Inspection Date: 8/8/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 8/14/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive
 Inspection Date: 2/10/2016
 Inspection Event Code: Notice of
 Inspection Event Complete Date: 2/19/2016
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Fauquier County Landfill - Sanitary Landfill - Inactive

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Inspection Date: 2/10/2016
 Inspection Event Code: Notice of
 Inspection Event Complete Date: 2/19/2016
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 1/8/2019
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 1/8/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 1/8/2019
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 1/15/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 10/24/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 10/24/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 10/24/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 11/7/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported

MAP FINDINGS

Map ID
Direction
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Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 10/27/2016
 Inspection Event Code: DATERESP
 Inspection Event Complete Date: 10/27/2016
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 10/27/2016
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 10/27/2016
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 10/27/2016
 Inspection Event Code: SWL
 Inspection Event Complete Date: 3/31/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 10/3/2017
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 10/3/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 10/3/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 10/6/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522

MAP FINDINGS

Map ID
Direction
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Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Site Location: Not reported
Solid Permit Id (alpha Prefix): Not reported
Solid Permit Id (numeric Suffix): Not reported
Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
Inspection Date: 10/9/2019
Inspection Event Code: INSPFAC
Inspection Event Complete Date: 10/9/2019
Solid Waste Enf Effective Date: Not reported
Solid Waste Enf Penalty Type: Not reported
Solid Waste Enf Penalty Amount: Not reported
Solid Waste Enf Type Desc: Not reported
Solid Waste Unit Type: Not reported
Solid Waste Unit Name: Not reported
Haz. Waste Facility Region: Not reported
Haz. Waste Facility Epaid: Not reported
Haz. Waste Enforcement Date: Not reported
Haz. Waste Enforcement Type: Not reported
Haz. Waste Enforcement Agency: Not reported
Haz. Waste Enf RCRIS Comments: Not reported
Haz. Waste Penalty Type: Not reported
Haz. Waste Enf Order Dt. Signed: Not reported
Haz. Waste Enf Order Type: Not reported
Haz. Waste Penalty Amount: Not reported
Type Of Permit: Not reported
Permit No: Not reported
Enforcement Action Number: Not reported
Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County Solid Waste Management Facility
Location Address: 6438 College Street
Location Address 2: Not reported
Location City,St,Zip: Warrenton, VA 20187
Solid Waste Facility Region: NVRO
CEDS Site Id: 522
Site Location: Not reported
Solid Permit Id (alpha Prefix): Not reported
Solid Permit Id (numeric Suffix): Not reported
Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
Inspection Date: 10/9/2019
Inspection Event Code: SNDL
Inspection Event Complete Date: 10/18/2019
Solid Waste Enf Effective Date: Not reported
Solid Waste Enf Penalty Type: Not reported
Solid Waste Enf Penalty Amount: Not reported
Solid Waste Enf Type Desc: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility EpaId: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 12/29/2016
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 12/29/2016
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility EpaId: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported

MAP FINDINGS

Map ID
Direction
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Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported
Flag:	SOLIDWASTE
Name:	CORRAL FARM WASTE MANAGEMENT FACILITY
Address:	6438 COLLEGE ST
Address 2:	Not reported
Address 3:	Not reported
City,State,Zip:	WARRENTON, VA 20187
Facility ID:	Not reported
Facility Name:	Fauquier County Solid Waste Management Facility
Location Address:	6438 College Street
Location Address 2:	Not reported
Location City,St,Zip:	Warrenton, VA 20187
Solid Waste Facility Region:	NVRO
CEDS Site Id:	522
Site Location:	Not reported
Solid Permit Id (alpha Prefix):	Not reported
Solid Permit Id (numeric Suffix):	Not reported
Solid Waste Unit Type:	Corral Farm Sanitary Landfill - Sanitary Landfill - Active
Inspection Date:	12/29/2016
Inspection Event Code:	SNDL
Inspection Event Complete Date:	1/3/2017
Solid Waste Enf Effective Date:	Not reported
Solid Waste Enf Penalty Type:	Not reported
Solid Waste Enf Penalty Amount:	Not reported
Solid Waste Enf Type Desc:	Not reported
Solid Waste Unit Type:	Not reported
Solid Waste Unit Name:	Not reported
Haz. Waste Facility Region:	Not reported
Haz. Waste Facility Epaid:	Not reported
Haz. Waste Enforcement Date:	Not reported
Haz. Waste Enforcement Type:	Not reported
Haz. Waste Enforcement Agency:	Not reported
Haz. Waste Enf RCRIS Comments:	Not reported
Haz. Waste Penalty Type:	Not reported
Haz. Waste Enf Order Dt. Signed:	Not reported
Haz. Waste Enf Order Type:	Not reported
Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported
Flag:	SOLIDWASTE

MAP FINDINGS

Map ID
Direction
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Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 12/6/2017
 Inspection Event Code: DATERESP
 Inspection Event Complete Date: 1/3/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 12/6/2017
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 12/6/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 12/6/2017
 Inspection Event Code: SDL
 Inspection Event Complete Date: 1/22/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 2/10/2017
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 2/10/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported

MAP FINDINGS

Map ID
 Direction
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 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Enf Order Type:	Not reported
Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported
Flag:	SOLIDWASTE
Name:	CORRAL FARM WASTE MANAGEMENT FACILITY
Address:	6438 COLLEGE ST
Address 2:	Not reported
Address 3:	Not reported
City,State,Zip:	WARRENTON, VA 20187
Facility ID:	Not reported
Facility Name:	Fauquier County Solid Waste Management Facility
Location Address:	6438 College Street
Location Address 2:	Not reported
Location City,St,Zip:	Warrenton, VA 20187
Solid Waste Facility Region:	NVRO
CEDS Site Id:	522
Site Location:	Not reported
Solid Permit Id (alpha Prefix):	Not reported
Solid Permit Id (numeric Suffix):	Not reported
Solid Waste Unit Type:	Corral Farm Sanitary Landfill - Sanitary Landfill - Active
Inspection Date:	2/10/2017
Inspection Event Code:	SNDL
Inspection Event Complete Date:	2/21/2017
Solid Waste Enf Effective Date:	Not reported
Solid Waste Enf Penalty Type:	Not reported
Solid Waste Enf Penalty Amount:	Not reported
Solid Waste Enf Type Desc:	Not reported
Solid Waste Unit Type:	Not reported
Solid Waste Unit Name:	Not reported
Haz. Waste Facility Region:	Not reported
Haz. Waste Facility Epaid:	Not reported
Haz. Waste Enforcement Date:	Not reported
Haz. Waste Enforcement Type:	Not reported
Haz. Waste Enforcement Agency:	Not reported
Haz. Waste Enf RCRIS Comments:	Not reported
Haz. Waste Penalty Type:	Not reported
Haz. Waste Enf Order Dt. Signed:	Not reported
Haz. Waste Enf Order Type:	Not reported
Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County Solid Waste Management Facility
Location Address: 6438 College Street
Location Address 2: Not reported
Location City,St,Zip: Warrenton, VA 20187
Solid Waste Facility Region: NVRO
CEDS Site Id: 522
Site Location: Not reported
Solid Permit Id (alpha Prefix): Not reported
Solid Permit Id (numeric Suffix): Not reported
Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
Inspection Date: 2/13/2018
Inspection Event Code: INSPFAC
Inspection Event Complete Date: 2/13/2018
Solid Waste Enf Effective Date: Not reported
Solid Waste Enf Penalty Type: Not reported
Solid Waste Enf Penalty Amount: Not reported
Solid Waste Enf Type Desc: Not reported
Solid Waste Unit Type: Not reported
Solid Waste Unit Name: Not reported
Haz. Waste Facility Region: Not reported
Haz. Waste Facility Epaid: Not reported
Haz. Waste Enforcement Date: Not reported
Haz. Waste Enforcement Type: Not reported
Haz. Waste Enforcement Agency: Not reported
Haz. Waste Enf RCRIS Comments: Not reported
Haz. Waste Penalty Type: Not reported
Haz. Waste Enf Order Dt. Signed: Not reported
Haz. Waste Enf Order Type: Not reported
Haz. Waste Penalty Amount: Not reported
Type Of Permit: Not reported
Permit No: Not reported
Enforcement Action Number: Not reported
Action: Not reported
Action Date: Not reported
Civil Charges Assessed: Not reported
Solid Waste Facility Description: Not reported
Inspection Event Completed Dt: Not reported
Inspection Event Description: Not reported
Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
Address 2: Not reported
Address 3: Not reported
City,State,Zip: WARRENTON, VA 20187
Facility ID: Not reported
Facility Name: Fauquier County Solid Waste Management Facility
Location Address: 6438 College Street
Location Address 2: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 2/13/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 2/22/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 4/10/2018
 Inspection Event Code: DATERESP
 Inspection Event Complete Date: 4/24/2018
 Solid Waste Enf Effective Date: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 4/10/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 4/10/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported

MAP FINDINGS

Map ID
Direction
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Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Penalty Type:	Not reported
Haz. Waste Enf Order Dt. Signed:	Not reported
Haz. Waste Enf Order Type:	Not reported
Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported
Inspection Event Completed Dt:	Not reported
Inspection Event Description:	Not reported
Flag:	SOLIDWASTE
Name:	CORRAL FARM WASTE MANAGEMENT FACILITY
Address:	6438 COLLEGE ST
Address 2:	Not reported
Address 3:	Not reported
City,State,Zip:	WARRENTON, VA 20187
Facility ID:	Not reported
Facility Name:	Fauquier County Solid Waste Management Facility
Location Address:	6438 College Street
Location Address 2:	Not reported
Location City,St,Zip:	Warrenton, VA 20187
Solid Waste Facility Region:	NVRO
CEDS Site Id:	522
Site Location:	Not reported
Solid Permit Id (alpha Prefix):	Not reported
Solid Permit Id (numeric Suffix):	Not reported
Solid Waste Unit Type:	Corral Farm Sanitary Landfill - Sanitary Landfill - Active
Inspection Date:	4/10/2018
Inspection Event Code:	SWL
Inspection Event Complete Date:	4/24/2018
Solid Waste Enf Effective Date:	Not reported
Solid Waste Enf Penalty Type:	Not reported
Solid Waste Enf Penalty Amount:	Not reported
Solid Waste Enf Type Desc:	Not reported
Solid Waste Unit Type:	Not reported
Solid Waste Unit Name:	Not reported
Haz. Waste Facility Region:	Not reported
Haz. Waste Facility Epaid:	Not reported
Haz. Waste Enforcement Date:	Not reported
Haz. Waste Enforcement Type:	Not reported
Haz. Waste Enforcement Agency:	Not reported
Haz. Waste Enf RCRIS Comments:	Not reported
Haz. Waste Penalty Type:	Not reported
Haz. Waste Enf Order Dt. Signed:	Not reported
Haz. Waste Enf Order Type:	Not reported
Haz. Waste Penalty Amount:	Not reported
Type Of Permit:	Not reported
Permit No:	Not reported
Enforcement Action Number:	Not reported
Action:	Not reported
Action Date:	Not reported
Civil Charges Assessed:	Not reported
Solid Waste Facility Description:	Not reported

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 4/17/2019
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 4/17/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility

MAP FINDINGS

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Database(s)

EDR ID Number
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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 4/17/2019
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 4/25/2019
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 4/26/2017
 Inspection Event Code: INSPFAC

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Inspection Event Complete Date: 4/26/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 4/26/2017
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 4/28/2017
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 6/11/2018
 Inspection Event Code: INSPFAC
 Inspection Event Complete Date: 6/11/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

 Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 Address 2: Not reported
 Address 3: Not reported
 City,State,Zip: WARRENTON, VA 20187
 Facility ID: Not reported
 Facility Name: Fauquier County Solid Waste Management Facility
 Location Address: 6438 College Street
 Location Address 2: Not reported
 Location City,St,Zip: Warrenton, VA 20187
 Solid Waste Facility Region: NVRO
 CEDS Site Id: 522
 Site Location: Not reported
 Solid Permit Id (alpha Prefix): Not reported
 Solid Permit Id (numeric Suffix): Not reported
 Solid Waste Unit Type: Corral Farm Sanitary Landfill - Sanitary Landfill - Active
 Inspection Date: 6/11/2018
 Inspection Event Code: SNDL
 Inspection Event Complete Date: 6/15/2018
 Solid Waste Enf Effective Date: Not reported
 Solid Waste Enf Penalty Type: Not reported
 Solid Waste Enf Penalty Amount: Not reported
 Solid Waste Enf Type Desc: Not reported
 Solid Waste Unit Type: Not reported
 Solid Waste Unit Name: Not reported
 Haz. Waste Facility Region: Not reported
 Haz. Waste Facility Epaid: Not reported
 Haz. Waste Enforcement Date: Not reported
 Haz. Waste Enforcement Type: Not reported
 Haz. Waste Enforcement Agency: Not reported
 Haz. Waste Enf RCRIS Comments: Not reported
 Haz. Waste Penalty Type: Not reported
 Haz. Waste Enf Order Dt. Signed: Not reported
 Haz. Waste Enf Order Type: Not reported
 Haz. Waste Penalty Amount: Not reported
 Type Of Permit: Not reported
 Permit No: Not reported
 Enforcement Action Number: Not reported
 Action: Not reported
 Action Date: Not reported
 Civil Charges Assessed: Not reported
 Solid Waste Facility Description: Not reported
 Inspection Event Completed Dt: Not reported
 Inspection Event Description: Not reported
 Flag: SOLIDWASTE

Financial Assurance 2:

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
 Address: 6438 COLLEGE ST
 City,State,Zip: WARRENTON, VA 20187
 Latitude: 38.68024

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CORRAL FARM WASTE MANAGEMENT FACILITY (Continued)**S107678802**

Longitude: -77.779348
Permit: PBR625
Closure Estimate: 58104
Post Closure Estimate: 0
Corrective Action Estimate: 0
Total Estimate: 58104
Solid Waste Financial Mechanism Name: Local Government Financial Test
Solid Permit Status: Active
Permit Operating Status: P
POS Effective Date: 09/22/2017
Solid Waste Facility Region: Northern Virginia Regional Office

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
City,State,Zip: WARRENTON, VA 20187
Latitude: 38.68171153
Longitude: -77.78016278
Permit: SWP149
Closure Estimate: 12089687
Post Closure Estimate: 11449100
Corrective Action Estimate: 85035
Total Estimate: 23623822
Solid Waste Financial Mechanism Name: Local Government Financial Test
Solid Permit Status: Inactive
Permit Operating Status: P
POS Effective Date: 02/04/1974
Solid Waste Facility Region: Northern Virginia Regional Office

Name: CORRAL FARM WASTE MANAGEMENT FACILITY
Address: 6438 COLLEGE ST
City,State,Zip: WARRENTON, VA 20187
Latitude: 38.677499
Longitude: -77.779052
Permit: SWP575
Closure Estimate: 7403140
Post Closure Estimate: 4959272
Corrective Action Estimate: 0
Total Estimate: 12362412
Solid Waste Financial Mechanism Name: Local Government Financial Test
Solid Permit Status: Active
Permit Operating Status: P
POS Effective Date: 09/23/1994
Solid Waste Facility Region: Northern Virginia Regional Office

A3 FAUQUIER COUNTY HHW
East 6438 COLLEGE STREET
1/8-1/4 WARRENTON, VA 20187
0.129 mi.
682 ft. Site 3 of 3 in cluster A

RCRA-VSQG 1012189076
VAR000517722

Relative:
Higher
Actual:
579 ft.

RCRA-VSQG:
Date Form Received by Agency: 20090710
Handler Name: FAUQUIER COUNTY HHW
Handler Address: 6438 COLLEGE STREET
Handler City,State,Zip: WARRENTON, VA 20187
EPA ID: VAR000517722
Contact Name: MIKE DORSEY
Contact Address: Not reported

MAP FINDINGS

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EPA ID Number

FAUQUIER COUNTY HHW (Continued)

1012189076

Contact City,State,Zip:	Not reported
Contact Telephone:	540-347-6811
Contact Fax:	Not reported
Contact Email:	MIKE.DORSEY@FAUQUIERCOUNTY.GOV
Contact Title:	Not reported
EPA Region:	03
Land Type:	County
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	VA
State District:	4
Mailing Address:	6438 COLLEGE STREET
Mailing City,State,Zip:	WARRENTON, VA 20187
Owner Name:	FAUQUIER COUNTY
Owner Type:	County
Operator Name:	POLLUTION CONTROL INDUSTRIES, INC.
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No

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FAUQUIER COUNTY HHW (Continued)

1012189076

Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No
Handler - Owner Operator:	
Owner/Operator Indicator:	Owner
Owner/Operator Name:	FAUQUIER COUNTY
Legal Status:	County
Date Became Current:	19940923
Date Ended Current:	Not reported
Owner/Operator Address:	6438 COLLEGE STREET
Owner/Operator City,State,Zip:	WARRENTON, VA 20187
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	POLLUTION CONTROL INDUSTRIES, INC.
Legal Status:	Private
Date Became Current:	20090708
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Historic Generators:	
Receive Date:	20051006
Handler Name:	FAUQUIER CO. LANDFILL-DEPT.OF ENV. SERV.
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	VA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No

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FAUQUIER COUNTY HHW (Continued)

1012189076

Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20090710
Handler Name:	FAUQUIER COUNTY HHW
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	VA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	562111
NAICS Description:	SOLID WASTE COLLECTION

Facility Has Received Notices of Violation:

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Universal Waste - General
Date Violation was Determined:	20050909
Actual Return to Compliance Date:	20051214
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Y01
Date of Enforcement Action:	20051109
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INSPECTOR FACT FINDING LETTER - Warning letter
Enforcement Responsible Person:	R4MNR
Enforcement Responsible Sub-Organization:	NR
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported

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FAUQUIER COUNTY HHW (Continued)

1012189076

Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Universal Waste - General
Date Violation was Determined:	20050909
Actual Return to Compliance Date:	20051214
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Y01
Date of Enforcement Action:	20051109
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INSPECTOR FACT FINDING LETTER - Warning letter
Enforcement Responsible Person:	R4MNR
Enforcement Responsible Sub-Organization:	NR
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Universal Waste - General
Date Violation was Determined:	20050909
Actual Return to Compliance Date:	20051214
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Y01
Date of Enforcement Action:	20051109
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported

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FAUQUIER COUNTY HHW (Continued)

1012189076

Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INSPECTOR FACT FINDING LETTER - Warning letter
Enforcement Responsible Person:	R4MNR
Enforcement Responsible Sub-Organization:	NR
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Universal Waste - General
Date Violation was Determined:	20050909
Actual Return to Compliance Date:	20051214
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Y01
Date of Enforcement Action:	20051108
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INSPECTOR FACT FINDING LETTER - Warning letter
Enforcement Responsible Person:	R4MNR
Enforcement Responsible Sub-Organization:	NR
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

FAUQUIER COUNTY HHW (Continued)

1012189076

Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20050909
Actual Return to Compliance Date:	20051214
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Y01
Date of Enforcement Action:	20051108
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INSPECTOR FACT FINDING LETTER - Warning letter
Enforcement Responsible Person:	R4MNR
Enforcement Responsible Sub-Organization:	NR
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Universal Waste - General
Date Violation was Determined:	20050909
Actual Return to Compliance Date:	20051214
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Y01
Date of Enforcement Action:	20051108
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

FAUQUIER COUNTY HHW (Continued)

1012189076

Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INSPECTOR FACT FINDING LETTER - Warning letter
Enforcement Responsible Person:	R4MNR
Enforcement Responsible Sub-Organization:	NR
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Universal Waste - General
Date Violation was Determined:	20050909
Actual Return to Compliance Date:	20051214
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Y01
Date of Enforcement Action:	20051108
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INSPECTOR FACT FINDING LETTER - Warning letter
Enforcement Responsible Person:	R4MNR
Enforcement Responsible Sub-Organization:	NR
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

FAUQUIER COUNTY HHW (Continued)

1012189076

Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20050909
Actual Return to Compliance Date:	20051214
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Y01
Date of Enforcement Action:	20051109
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INSPECTOR FACT FINDING LETTER - Warning letter
Enforcement Responsible Person:	R4MNR
Enforcement Responsible Sub-Organization:	NR
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Evaluation Action Summary:	
Evaluation Date:	20050909
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R4MNR
Evaluation Responsible Sub-Organization:	NR
Actual Return to Compliance Date:	20051214
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20050909
Evaluation Responsible Agency:	State

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

FAUQUIER COUNTY HHW (Continued)

1012189076

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R4MNR
Evaluation Responsible Sub-Organization:	NR
Actual Return to Compliance Date:	20051214
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20050909
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R4MNR
Evaluation Responsible Sub-Organization:	NR
Actual Return to Compliance Date:	20051214
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20050909
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R4MNR
Evaluation Responsible Sub-Organization:	NR
Actual Return to Compliance Date:	20051214
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20050909
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R4MNR
Evaluation Responsible Sub-Organization:	NR
Actual Return to Compliance Date:	20051214
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20050909
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R4MNR
Evaluation Responsible Sub-Organization:	NR
Actual Return to Compliance Date:	20051214

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

FAUQUIER COUNTY HHW (Continued)**1012189076**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20050909
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R4MNR
Evaluation Responsible Sub-Organization:	NR
Actual Return to Compliance Date:	20051214
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20050909
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R4MNR
Evaluation Responsible Sub-Organization:	NR
Actual Return to Compliance Date:	20051214
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Count: 1 records.

ORPHAN SUMMARY

Item E.

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FAUQUIER	S104407569	NEW BALTIMORE FIRE DEPT (COMPANY 1	5303 JAMES MADISON HIGHWAY	20187	VA LUST

Item b.

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA’s Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/27/2022	Source: EPA
Date Data Arrived at EDR: 05/05/2022	Telephone: N/A
Date Made Active in Reports: 05/31/2022	Last EDR Contact: 08/02/2022
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA’s Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/27/2022	Source: EPA
Date Data Arrived at EDR: 05/05/2022	Telephone: N/A
Date Made Active in Reports: 05/31/2022	Last EDR Contact: 08/02/2022
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
 Date Data Arrived at EDR: 02/02/1994
 Date Made Active in Reports: 03/30/1994
 Number of Days to Update: 56

Source: EPA
 Telephone: 202-564-4267
 Last EDR Contact: 08/15/2011
 Next Scheduled EDR Contact: 11/28/2011
 Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/27/2022
 Date Data Arrived at EDR: 05/05/2022
 Date Made Active in Reports: 05/31/2022
 Number of Days to Update: 26

Source: EPA
 Telephone: N/A
 Last EDR Contact: 08/02/2022
 Next Scheduled EDR Contact: 10/10/2022
 Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/25/2021
 Date Data Arrived at EDR: 06/24/2021
 Date Made Active in Reports: 09/20/2021
 Number of Days to Update: 88

Source: Environmental Protection Agency
 Telephone: 703-603-8704
 Last EDR Contact: 06/27/2022
 Next Scheduled EDR Contact: 10/10/2022
 Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/27/2022
 Date Data Arrived at EDR: 05/05/2022
 Date Made Active in Reports: 05/31/2022
 Number of Days to Update: 26

Source: EPA
 Telephone: 800-424-9346
 Last EDR Contact: 08/02/2022
 Next Scheduled EDR Contact: 10/24/2022
 Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/27/2022	Source: EPA
Date Data Arrived at EDR: 05/05/2022	Telephone: 800-424-9346
Date Made Active in Reports: 05/31/2022	Last EDR Contact: 08/02/2022
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/24/2022
	Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/20/2022	Source: EPA
Date Data Arrived at EDR: 06/21/2022	Telephone: 800-424-9346
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: 800-438-2474
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: 800-438-2474
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: 800-438-2474
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

RCRA-VSQQ: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: 800-438-2474
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/16/2022	Source: Department of the Navy
Date Data Arrived at EDR: 05/19/2022	Telephone: 843-820-7326
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 08/03/2022
Number of Days to Update: 71	Next Scheduled EDR Contact: 11/21/2022
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/16/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/24/2022	Telephone: 703-603-0695
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 05/24/2022
Number of Days to Update: 66	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/16/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/24/2022	Telephone: 703-603-0695
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 05/04/2022
Number of Days to Update: 66	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/14/2022	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 06/15/2022	Telephone: 202-267-2180
Date Made Active in Reports: 06/21/2022	Last EDR Contact: 06/15/2022
Number of Days to Update: 6	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: N/A	Source: Department of Environmental Quality
Date Data Arrived at EDR: N/A	Telephone: 804-698-4236
Date Made Active in Reports: N/A	Last EDR Contact: 06/09/2022
Number of Days to Update: N/A	Next Scheduled EDR Contact: 09/26/2022
	Data Release Frequency: N/A

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: Solid Waste Management Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/25/2022	Source: Department of Environmental Quality
Date Data Arrived at EDR: 02/28/2022	Telephone: 804-698-4238
Date Made Active in Reports: 05/26/2022	Last EDR Contact: 05/26/2022
Number of Days to Update: 87	Next Scheduled EDR Contact: 09/12/2022
	Data Release Frequency: Semi-Annually

Lists of state and tribal leaking storage tanks

LUST REG TD: Leaking Underground Storage Tank Sites

Leaking underground storage tank site locations. Includes: counties of Accomack, Isle of Wight, James City, Northampton, Southampton, York; cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, Williamsburg.

Date of Government Version: 06/30/2013	Source: Department of Environmental Quality Tidewater Regional Office
Date Data Arrived at EDR: 07/05/2013	Telephone: trofoia@deq.vir
Date Made Active in Reports: 09/16/2013	Last EDR Contact: 09/26/2016
Number of Days to Update: 73	Next Scheduled EDR Contact: 01/09/2017
	Data Release Frequency: Quarterly

LUST REG PD: Leaking Underground Storage Tank Sites

Leaking underground storage tank site locations. Includes: counties of Amelia, Brunswick, Charles City, Chesterfield, Dinwiddie, Essex, Gloucester, Goochland, Greensville, Hanover, Henrico, King and Queen, King William, Lancaster, Mathews, Middlesex, New Kent, Northumberland, Powhatan, Prince George, Richmond, Surry, Sussex, Westmoreland; cities of Colonial Heights, Emporia, Hopewell, Petersburg.

Date of Government Version: 12/02/2014	Source: Department of Environmental Quality Piedmont Regional Office
Date Data Arrived at EDR: 12/04/2014	Telephone: 804-527-5020
Date Made Active in Reports: 01/16/2015	Last EDR Contact: 08/29/2016
Number of Days to Update: 43	Next Scheduled EDR Contact: 12/12/2016
	Data Release Frequency: Quarterly

LUST REG SC: Leaking Underground Storage Tanks

Leaking underground storage tank site locations. Includes: counties of Amherst, Appomattox, Buckingham, Campbell, Charlotte, Cumberland, Halifax, Lunenburg, Mecklenburg, Nottoway, Pittsylvania, Prince Deward; cities of Danville, Lynchburg.

Date of Government Version: 09/06/2013	Source: Department of Environmental Quality, South Central Region
Date Data Arrived at EDR: 09/06/2013	Telephone: 434-582-5120
Date Made Active in Reports: 09/17/2013	Last EDR Contact: 08/29/2016
Number of Days to Update: 11	Next Scheduled EDR Contact: 12/12/2016
	Data Release Frequency: Semi-Annually

LUST REG WC: Leaking Underground Storage Tank List

Leaking underground storage tank site locations. Includes: counties of Alleghany, Bedford, Botetourt, Craig, Floyd, Franklin, Giles, Henry, Montgomery, Patrick, Pulaski, Roanoke; cities of Bedford, Clifton Forge, Covington, Martinsville, Radford, Roanoke, Salem.

Date of Government Version: 06/04/2015	Source: Department of Environmental Quality West Central Regional Office
Date Data Arrived at EDR: 06/05/2015	Telephone: 540-562-6700
Date Made Active in Reports: 07/07/2015	Last EDR Contact: 08/29/2016
Number of Days to Update: 32	Next Scheduled EDR Contact: 12/12/2016
	Data Release Frequency: No Update Planned

LUST REG VA: Leaking Underground Storage Tank List

Leaking underground storage tank site locations. Includes: counties of Albemarle, Augusta, Bath, Clarke, Fluvanna, Frederick, Greene, Highland, Nelson, Page, Rockbridge, Rockingham, Shenandoah, Warren; cities of Buena Vista, Charlottesville, Harrisonburg, Lexington, Staunton, Waynesboro, Winchester.

Date of Government Version: 12/06/2011	Source: Department of Environmental Quality Valley Regional Office
Date Data Arrived at EDR: 12/08/2011	Telephone: 540-574-7800
Date Made Active in Reports: 01/16/2012	Last EDR Contact: 08/29/2016
Number of Days to Update: 39	Next Scheduled EDR Contact: 12/12/2016
	Data Release Frequency: No Update Planned

LUST REG NO: Leaking Underground Storage Tank Tracking Database

Leaking underground storage tank site locations. Includes: counties of Arlington, Caroline, Culpeper, Fairfax, Fauquier, King George, Loudoun, Louisa, Madison, Orange, Prince William, Rappahannock, Spotsylvania, Stafford; cities of Alexandria, Fairfax, Falls Church, Fredericksburg, Manassas, Manassas Park.

Date of Government Version: 05/18/2004	Source: Department of Environmental Quality Northern Regional Office
Date Data Arrived at EDR: 05/22/2004	Telephone: 703-583-3800
Date Made Active in Reports: 07/09/2004	Last EDR Contact: 09/06/2011
Number of Days to Update: 48	Next Scheduled EDR Contact: 12/19/2011
	Data Release Frequency: No Update Planned

LUST REG SW: Leaking Underground Storage Tank Database

Leaking underground storage tank site locations. Includes: counties of Bland, Buchanan, Carroll, Dickenson, Grayson, Lee, Russell, Scott, Smyth, Tazewell, Washington, Wise, Wythe; cities of Bristol, Galax, Norton.

Date of Government Version: 07/15/2013	Source: Department of Environmental Quality Southwest Regional Office
Date Data Arrived at EDR: 07/18/2013	Telephone: 276-676-4800
Date Made Active in Reports: 09/16/2013	Last EDR Contact: 10/11/2016
Number of Days to Update: 60	Next Scheduled EDR Contact: 01/23/2017
	Data Release Frequency: No Update Planned

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/12/2021	Source: EPA Region 7
Date Data Arrived at EDR: 11/15/2021	Telephone: 913-551-7003
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/12/2021	Source: EPA Region 8
Date Data Arrived at EDR: 11/15/2021	Telephone: 303-312-6271
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/12/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/15/2021	Telephone: 415-972-3372
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/12/2021	Source: EPA Region 10
Date Data Arrived at EDR: 11/15/2021	Telephone: 206-553-2857
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/12/2021	Source: EPA, Region 5
Date Data Arrived at EDR: 11/15/2021	Telephone: 312-886-7439
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/28/2021	Source: EPA Region 1
Date Data Arrived at EDR: 06/11/2021	Telephone: 617-918-1313
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 06/13/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/28/2021	Source: EPA Region 4
Date Data Arrived at EDR: 06/22/2021	Telephone: 404-562-8677
Date Made Active in Reports: 09/20/2021	Last EDR Contact: 06/13/2022
Number of Days to Update: 90	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/12/2021	Source: EPA Region 6
Date Data Arrived at EDR: 11/15/2021	Telephone: 214-665-6597
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

LTANKS: Leaking Petroleum Storage Tanks

Includes releases of petroleum from underground storage tanks and aboveground storage tanks.

Date of Government Version: 02/03/2022	Source: Department of Environmental Quality
Date Data Arrived at EDR: 02/24/2022	Telephone: 804-698-4010
Date Made Active in Reports: 05/23/2022	Last EDR Contact: 05/25/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: Quarterly

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021	Source: FEMA
Date Data Arrived at EDR: 11/05/2021	Telephone: 202-646-5797
Date Made Active in Reports: 02/01/2022	Last EDR Contact: 06/29/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Varies

UST: Registered Petroleum Storage Tanks

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 02/02/2022	Source: Department of Environmental Quality
Date Data Arrived at EDR: 02/24/2022	Telephone: 804-698-4010
Date Made Active in Reports: 05/23/2022	Last EDR Contact: 05/25/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: Quarterly

AST: Registered Petroleum Storage Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 02/02/2022	Source: Department of Environmental Quality
Date Data Arrived at EDR: 02/24/2022	Telephone: 804-698-4010
Date Made Active in Reports: 05/23/2022	Last EDR Contact: 05/25/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/28/2021	Source: EPA Region 4
Date Data Arrived at EDR: 06/22/2021	Telephone: 404-562-9424
Date Made Active in Reports: 09/20/2021	Last EDR Contact: 06/13/2022
Number of Days to Update: 90	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/12/2021	Source: EPA Region 6
Date Data Arrived at EDR: 11/15/2021	Telephone: 214-665-7591
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/06/2021	Source: EPA Region 5
Date Data Arrived at EDR: 06/11/2021	Telephone: 312-886-6136
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 06/13/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/14/2021	Source: EPA, Region 1
Date Data Arrived at EDR: 11/15/2021	Telephone: 617-918-1313
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/12/2021	Source: EPA Region 10
Date Data Arrived at EDR: 11/15/2021	Telephone: 206-553-2857
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/12/2021	Source: EPA Region 7
Date Data Arrived at EDR: 11/15/2021	Telephone: 913-551-7003
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/12/2021	Source: EPA Region 8
Date Data Arrived at EDR: 11/15/2021	Telephone: 303-312-6137
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/12/2021	Source: EPA Region 9
Date Data Arrived at EDR: 11/15/2021	Telephone: 415-972-3368
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Sites Listing

A listing of sites with Engineering Controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/30/2022	Source: Department of Environmental Quality
Date Data Arrived at EDR: 04/05/2022	Telephone: 804-698-4228
Date Made Active in Reports: 06/30/2022	Last EDR Contact: 06/29/2022
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Quarterly

INST CONTROL: Voluntary Remediation Program Database

Sites included in the Voluntary Remediation Program database that have deed restrictions.

Date of Government Version: 03/30/2022	Source: Department of Environmental Quality
Date Data Arrived at EDR: 04/05/2022	Telephone: 804-698-4228
Date Made Active in Reports: 06/30/2022	Last EDR Contact: 06/29/2022
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Quarterly

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 07/08/2021
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

VRP: Voluntary Remediation Program

The Voluntary Cleanup Program encourages owners of elected contaminated sites to take the initiative and conduct voluntary cleanups that meet state environmental standards.

Date of Government Version: 03/30/2022	Source: Department of Environmental Quality
Date Data Arrived at EDR: 04/05/2022	Telephone: 804-698-4228
Date Made Active in Reports: 06/30/2022	Last EDR Contact: 06/29/2022
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 06/15/2022
Number of Days to Update: 142	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Brownfields Site Specific Assessments

To qualify for Brownfields Assessment, the site must meet the Federal definition of a Brownfields and should have contaminant issues that need to be addressed and a redevelopment plan supported by the local government and community. Virginia's Department of Environmental Quality performs brownfields assessments under a cooperative agreement with the U.S. Environmental Protection Agency at no cost to communities, property owners or, prospective purchasers. The assessment is an evaluation of environmental impacts caused by previous site uses similar to a Phase II Environmental Assessment.

Date of Government Version: 04/19/2022	Source: Department of Environmental Quality
Date Data Arrived at EDR: 04/20/2022	Telephone: 804-698-4207
Date Made Active in Reports: 07/14/2022	Last EDR Contact: 07/19/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 02/23/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/10/2022	Telephone: 202-566-2777
Date Made Active in Reports: 03/10/2022	Last EDR Contact: 08/08/2022
Number of Days to Update: 0	Next Scheduled EDR Contact: 09/26/2022
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 07/21/2022
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/07/2022
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 07/12/2022
Number of Days to Update: 137	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
 A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014	Source: Department of Health & Human Services, Indian Health Service
Date Data Arrived at EDR: 08/06/2014	Telephone: 301-443-1452
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 07/21/2022
Number of Days to Update: 176	Next Scheduled EDR Contact: 11/07/2022
	Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
 A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 04/30/2022	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 05/24/2022	Telephone: 202-307-1000
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 05/24/2022
Number of Days to Update: 66	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs
 A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 04/30/2022	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 05/24/2022	Telephone: 202-307-1000
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 05/24/2022
Number of Days to Update: 66	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: Quarterly

PFAS: Per- and Polyfluoroalkyl Substances
 PFOS and PFOA stand for perfluorooctane sulfonate and perfluorooctanoic acid, respectively. Both are fluorinated organic chemicals, part of a larger family of compounds referred to as perfluoroalkyl substances (PFASs).

Date of Government Version: 03/16/2022	Source: Department of Environmental Quality
Date Data Arrived at EDR: 04/05/2022	Telephone: 804-698-4336
Date Made Active in Reports: 06/30/2022	Last EDR Contact: 06/29/2022
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Varies

Local Land Records

LIENS 2: CERCLA Lien Information
 A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 04/27/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/05/2022	Telephone: 202-564-6023
Date Made Active in Reports: 05/31/2022	Last EDR Contact: 08/02/2022
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/21/2022	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 03/21/2022	Telephone: 202-366-4555
Date Made Active in Reports: 06/14/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

SPILLS BRL: Prep/Spills Database Listing

A listing of spills locations located in the Blue Ridge Regional area, Lynchburg.

Date of Government Version: 09/18/2009	Source: DEQ, Blue Ridge Regional Office
Date Data Arrived at EDR: 09/18/2009	Telephone: 434-582-6218
Date Made Active in Reports: 10/06/2009	Last EDR Contact: 11/28/2011
Number of Days to Update: 18	Next Scheduled EDR Contact: 03/12/2012
	Data Release Frequency: Varies

SPILLS VA: PREP Database

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 08/08/2012	Source: Department of Environmental Quality, Valley Regional Office
Date Data Arrived at EDR: 08/09/2012	Telephone: 540-574-7800
Date Made Active in Reports: 10/05/2012	Last EDR Contact: 05/06/2013
Number of Days to Update: 57	Next Scheduled EDR Contact: 08/19/2013
	Data Release Frequency: Quarterly

SPILLS TD: PREP Database

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 09/17/2009	Source: Department of Environmental Quality, Tidewater Region
Date Data Arrived at EDR: 09/23/2009	Telephone: trofoia@deq.vir
Date Made Active in Reports: 10/06/2009	Last EDR Contact: 09/06/2011
Number of Days to Update: 13	Next Scheduled EDR Contact: 12/19/2011
	Data Release Frequency: Quarterly

SPILLS: Prep/Spills Database Listing

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment. PREP staff often work to assist local emergency responders, other state agencies, federal agencies, and responsible parties, as may be needed, to manage pollution incidents. Oil spills, fish kills, and hazardous materials spills are examples of incidents that may involve the DEQ's PREP Program.

Date of Government Version: 02/03/2022	Source: Department of Environmental Quality
Date Data Arrived at EDR: 02/10/2022	Telephone: 804-698-4287
Date Made Active in Reports: 05/10/2022	Last EDR Contact: 05/25/2022
Number of Days to Update: 89	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: Quarterly

SPILLS SW: Reportable Spills

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 01/21/2010	Source: Department of Environmental Quality, Southwest Region
Date Data Arrived at EDR: 01/22/2010	Telephone: 276-676-4839
Date Made Active in Reports: 02/16/2010	Last EDR Contact: 07/13/2012
Number of Days to Update: 25	Next Scheduled EDR Contact: 10/29/2012
	Data Release Frequency: No Update Planned

SPILLS PD: PREP Database

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 10/20/2009	Source: Department of Environmental Quality, Piedmont Region
Date Data Arrived at EDR: 10/29/2009	Telephone: 804-527-5020
Date Made Active in Reports: 12/03/2009	Last EDR Contact: 02/06/2012
Number of Days to Update: 35	Next Scheduled EDR Contact: 05/21/2012
	Data Release Frequency: Quarterly

SPILLS NO: PREP Database

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 09/23/2009	Source: Department of Environmental Quality, Northern Region
Date Data Arrived at EDR: 09/29/2009	Telephone: 703-583-3864
Date Made Active in Reports: 10/30/2009	Last EDR Contact: 09/06/2011
Number of Days to Update: 31	Next Scheduled EDR Contact: 12/19/2011
	Data Release Frequency: No Update Planned

SPILLS PC: Pollution Complaint Database

Pollution Complaints Database. The pollution reports contained in the PC database include the initial release reporting of Leaking Underground Storage Tanks and all other releases of petroleum to the environment as well as releases to state waters. The database is current through 12/1/93. Since that time, all spill and pollution reporting information has been collected and tracked through the DEQ regional offices.

Date of Government Version: 06/01/1996	Source: Department of Environmental Quality
Date Data Arrived at EDR: 10/22/1996	Telephone: 804-698-4287
Date Made Active in Reports: 11/21/1996	Last EDR Contact: 03/08/2010
Number of Days to Update: 30	Next Scheduled EDR Contact: 06/21/2010
	Data Release Frequency: No Update Planned

SPILLS WC: Prep Database

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 09/21/2009	Source: Department of Environmental Quality, West Central Region
Date Data Arrived at EDR: 09/29/2009	Telephone: 540-562-6700
Date Made Active in Reports: 10/30/2009	Last EDR Contact: 09/06/2011
Number of Days to Update: 31	Next Scheduled EDR Contact: 12/19/2011
	Data Release Frequency: No Update Planned

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 09/01/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/15/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 43	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: 800-438-2474
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 05/11/2022	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 05/17/2022	Telephone: 202-528-4285
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 08/11/2022
Number of Days to Update: 73	Next Scheduled EDR Contact: 11/28/2022
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021	Source: USGS
Date Data Arrived at EDR: 07/13/2021	Telephone: 888-275-8747
Date Made Active in Reports: 03/09/2022	Last EDR Contact: 07/13/2022
Number of Days to Update: 239	Next Scheduled EDR Contact: 10/24/2022
	Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018	Source: U.S. Geological Survey
Date Data Arrived at EDR: 04/11/2018	Telephone: 888-275-8747
Date Made Active in Reports: 11/06/2019	Last EDR Contact: 07/08/2022
Number of Days to Update: 574	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2017	Telephone: 615-532-8599
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 08/03/2022
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/21/2022
	Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/21/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2022	Telephone: 202-566-1917
Date Made Active in Reports: 06/14/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 07/29/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/14/2022
	Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/08/2018	Telephone: 703-308-4044
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 08/04/2022
Number of Days to Update: 73	Next Scheduled EDR Contact: 11/14/2022
	Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016	Source: EPA
Date Data Arrived at EDR: 06/17/2020	Telephone: 202-260-5521
Date Made Active in Reports: 09/10/2020	Last EDR Contact: 06/14/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 09/26/2022
	Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018	Source: EPA
Date Data Arrived at EDR: 08/14/2020	Telephone: 202-566-0250
Date Made Active in Reports: 11/04/2020	Last EDR Contact: 08/11/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 11/28/2022
	Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 07/18/2022	Source: EPA
Date Data Arrived at EDR: 07/18/2022	Telephone: 202-564-4203
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 07/18/2022
Number of Days to Update: 11	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/27/2022	Source: EPA
Date Data Arrived at EDR: 05/05/2022	Telephone: 703-416-0223
Date Made Active in Reports: 05/31/2022	Last EDR Contact: 08/02/2022
Number of Days to Update: 26	Next Scheduled EDR Contact: 09/12/2022
	Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/27/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/04/2022	Telephone: 202-564-8600
Date Made Active in Reports: 05/10/2022	Last EDR Contact: 07/14/2022
Number of Days to Update: 6	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 01/25/2022	Source: EPA
Date Data Arrived at EDR: 02/03/2022	Telephone: 202-564-6023
Date Made Active in Reports: 02/25/2022	Last EDR Contact: 08/02/2022
Number of Days to Update: 22	Next Scheduled EDR Contact: 11/14/2022
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2022	Source: EPA
Date Data Arrived at EDR: 01/20/2022	Telephone: 202-566-0500
Date Made Active in Reports: 03/25/2022	Last EDR Contact: 07/08/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 06/28/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
 FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
 A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/11/2022	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 03/15/2022	Telephone: 301-415-7169
Date Made Active in Reports: 06/14/2022	Last EDR Contact: 07/13/2022
Number of Days to Update: 91	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020	Source: Department of Energy
Date Data Arrived at EDR: 11/30/2021	Telephone: 202-586-8719
Date Made Active in Reports: 02/22/2022	Last EDR Contact: 06/02/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 09/12/2022
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 05/25/2022
Number of Days to Update: 251	Next Scheduled EDR Contact: 09/12/2022
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 08/04/2022
Number of Days to Update: 96	Next Scheduled EDR Contact: 11/14/2022
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2019	Telephone: 202-343-9775
Date Made Active in Reports: 09/23/2019	Last EDR Contact: 06/23/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 01/28/2020	Telephone: 202-366-4595
Date Made Active in Reports: 04/17/2020	Last EDR Contact: 07/21/2022
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/07/2022
	Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2022	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 04/14/2022	Telephone: Varies
Date Made Active in Reports: 07/12/2022	Last EDR Contact: 06/29/2022
Number of Days to Update: 89	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2019	Source: EPA/NTIS
Date Data Arrived at EDR: 03/02/2022	Telephone: 800-424-9346
Date Made Active in Reports: 03/25/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 23	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014	Source: USGS
Date Data Arrived at EDR: 07/14/2015	Telephone: 202-208-3710
Date Made Active in Reports: 01/10/2017	Last EDR Contact: 07/08/2022
Number of Days to Update: 546	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021	Source: Department of Energy
Date Data Arrived at EDR: 07/27/2021	Telephone: 202-586-3559
Date Made Active in Reports: 10/22/2021	Last EDR Contact: 07/26/2022
Number of Days to Update: 87	Next Scheduled EDR Contact: 11/14/2022
	Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019	Source: Department of Energy
Date Data Arrived at EDR: 11/15/2019	Telephone: 505-845-0011
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 08/10/2022
Number of Days to Update: 74	Next Scheduled EDR Contact: 11/28/2022
	Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/27/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/05/2022	Telephone: 703-603-8787
Date Made Active in Reports: 05/31/2022	Last EDR Contact: 08/01/2022
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
 Date Data Arrived at EDR: 10/27/2010
 Date Made Active in Reports: 12/02/2010
 Number of Days to Update: 36

Source: American Journal of Public Health
 Telephone: 703-305-6451
 Last EDR Contact: 12/02/2009
 Next Scheduled EDR Contact: N/A
 Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
 Date Data Arrived at EDR: 10/26/2016
 Date Made Active in Reports: 02/03/2017
 Number of Days to Update: 100

Source: EPA
 Telephone: 202-564-2496
 Last EDR Contact: 09/26/2017
 Next Scheduled EDR Contact: 01/08/2018
 Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
 A listing of minor source facilities.

Date of Government Version: 10/12/2016
 Date Data Arrived at EDR: 10/26/2016
 Date Made Active in Reports: 02/03/2017
 Number of Days to Update: 100

Source: EPA
 Telephone: 202-564-2496
 Last EDR Contact: 09/26/2017
 Next Scheduled EDR Contact: 01/08/2018
 Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/02/2022
 Date Data Arrived at EDR: 05/25/2022
 Date Made Active in Reports: 07/29/2022
 Number of Days to Update: 65

Source: Department of Labor, Mine Safety and Health Administration
 Telephone: 303-231-5959
 Last EDR Contact: 05/25/2022
 Next Scheduled EDR Contact: 09/05/2022
 Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 03/21/2022
 Date Data Arrived at EDR: 03/22/2022
 Date Made Active in Reports: 03/25/2022
 Number of Days to Update: 3

Source: DOL, Mine Safety & Health Admi
 Telephone: 202-693-9424
 Last EDR Contact: 08/02/2022
 Next Scheduled EDR Contact: 09/12/2022
 Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
 Date Data Arrived at EDR: 05/27/2020
 Date Made Active in Reports: 08/13/2020
 Number of Days to Update: 78

Source: USGS
 Telephone: 703-648-7709
 Last EDR Contact: 05/27/2022
 Next Scheduled EDR Contact: 09/05/2022
 Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011	Source: USGS
Date Data Arrived at EDR: 06/08/2011	Telephone: 703-648-7709
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 05/27/2022
Number of Days to Update: 97	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/10/2022	Source: Department of Interior
Date Data Arrived at EDR: 03/10/2022	Telephone: 202-208-2609
Date Made Active in Reports: 06/14/2022	Last EDR Contact: 06/14/2022
Number of Days to Update: 96	Next Scheduled EDR Contact: 09/19/2022
	Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 05/13/2022	Source: EPA
Date Data Arrived at EDR: 05/18/2022	Telephone: (215) 814-5000
Date Made Active in Reports: 05/31/2022	Last EDR Contact: 05/18/2022
Number of Days to Update: 13	Next Scheduled EDR Contact: 09/12/2022
	Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/21/2021	Telephone: 202-564-0527
Date Made Active in Reports: 08/11/2021	Last EDR Contact: 05/19/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2020	Source: Department of Defense
Date Data Arrived at EDR: 01/11/2022	Telephone: 703-704-1564
Date Made Active in Reports: 02/14/2022	Last EDR Contact: 07/07/2022
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/24/2022
	Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/02/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 07/01/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/17/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 73

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Quarterly

AIRS: Permitted Airs Facility List

A listing of permitted Airs facilities.

Date of Government Version: 06/14/2022
Date Data Arrived at EDR: 06/15/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 13

Source: Department of Environmental Quality
Telephone: 804-698-4000
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Annually

CEDS: Comprehensive Environmental Data System

Virginia Water Protection Permits, Virginia Pollution Discharge System (point discharge) permits and Virginia Pollution Abatement (no point discharge) permits.

Date of Government Version: 05/31/2022
Date Data Arrived at EDR: 06/01/2022
Date Made Active in Reports: 06/13/2022
Number of Days to Update: 12

Source: Department of Environmental Quality
Telephone: 804-698-4077
Last EDR Contact: 05/26/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Quarterly

COAL ASH: Coal Ash Disposal Sites

A listing of facilities with coal ash impoundments.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 05/26/2021
Date Made Active in Reports: 08/18/2021
Number of Days to Update: 84

Source: Department of Environmental Protection
Telephone: 804-698-4285
Last EDR Contact: 05/26/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Varies

DRYCLEANERS: Drycleaner List

A listing of registered drycleaners.

Date of Government Version: 04/11/2022
Date Data Arrived at EDR: 04/12/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 1

Source: Department of Environmental Quality
Telephone: 804-698-4407
Last EDR Contact: 06/29/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

ENFORCEMENT: Enforcement Actions Data

A listing of enforcement actions.

Date of Government Version: 04/04/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 84

Source: Department of Environmental Quality
Telephone: 804-698-4031
Last EDR Contact: 06/23/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Quarterly

Financial Assurance 1: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 01/24/2022	Source: Department of Environmental Quality
Date Data Arrived at EDR: 04/21/2022	Telephone: 804-698-4205
Date Made Active in Reports: 07/15/2022	Last EDR Contact: 07/19/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 11/07/2022
	Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information listing

Solid waste financial assurance information.

Date of Government Version: 04/26/2022	Source: Department of Environmental Quality
Date Data Arrived at EDR: 04/27/2022	Telephone: 804-698-4123
Date Made Active in Reports: 07/20/2022	Last EDR Contact: 07/19/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 11/07/2022
	Data Release Frequency: Varies

TIER 2: Tier 2 Information Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.

Date of Government Version: 12/31/2019	Source: Department of Environmental Quality
Date Data Arrived at EDR: 01/04/2022	Telephone: 804-698-4159
Date Made Active in Reports: 03/21/2022	Last EDR Contact: 06/23/2022
Number of Days to Update: 76	Next Scheduled EDR Contact: 09/26/2022
	Data Release Frequency: No Update Planned

UIC: Underground Injection Control Wells

A listing of underground injection controls wells.

Date of Government Version: 04/19/2022	Source: Department of Mines, Minerals and Energy
Date Data Arrived at EDR: 04/20/2022	Telephone: 276-415-9700
Date Made Active in Reports: 07/14/2022	Last EDR Contact: 07/26/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 11/07/2022
	Data Release Frequency: Quarterly

PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014	Source: EPA
Date Data Arrived at EDR: 01/06/2015	Telephone: 202-564-2496
Date Made Active in Reports: 05/06/2015	Last EDR Contact: 06/28/2022
Number of Days to Update: 120	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Semi-Annually

**MINES MRDS: Mineral Resources Data System
Mineral Resources Data System**

Date of Government Version: 04/06/2018	Source: USGS
Date Data Arrived at EDR: 10/21/2019	Telephone: 703-648-6533
Date Made Active in Reports: 10/24/2019	Last EDR Contact: 05/27/2022
Number of Days to Update: 3	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: Varies

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014	Source: EPA
Date Data Arrived at EDR: 02/05/2015	Telephone: 202-564-2497
Date Made Active in Reports: 03/06/2015	Last EDR Contact: 06/28/2022
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011	Source: EPA, Office of Water
Date Data Arrived at EDR: 08/05/2011	Telephone: 202-564-2496
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 06/28/2022
Number of Days to Update: 55	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Semi-Annually

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Virginia.

Date of Government Version: N/A	Source: Department of Environmental Quality
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/20/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 203	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Virginia and at the Regional VA Levels.

Date of Government Version: N/A	Source: Department of Environmental Quality
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/15/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 198	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 05/08/2022	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 05/09/2022	Telephone: 860-424-3375
Date Made Active in Reports: 07/28/2022	Last EDR Contact: 08/08/2022
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/21/2022
	Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/10/2019	Telephone: N/A
Date Made Active in Reports: 05/16/2019	Last EDR Contact: 06/28/2022
Number of Days to Update: 36	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 10/29/2021	Telephone: 518-402-8651
Date Made Active in Reports: 01/19/2022	Last EDR Contact: 07/29/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 11/07/2022
	Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
 Date Data Arrived at EDR: 07/19/2019
 Date Made Active in Reports: 09/10/2019
 Number of Days to Update: 53

Source: Department of Environmental Protection
 Telephone: 717-783-8990
 Last EDR Contact: 07/06/2022
 Next Scheduled EDR Contact: 10/24/2022
 Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020
 Date Data Arrived at EDR: 11/30/2021
 Date Made Active in Reports: 02/18/2022
 Number of Days to Update: 80

Source: Department of Environmental Management
 Telephone: 401-222-2797
 Last EDR Contact: 08/10/2022
 Next Scheduled EDR Contact: 11/28/2022
 Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
 Date Data Arrived at EDR: 06/19/2019
 Date Made Active in Reports: 09/03/2019
 Number of Days to Update: 76

Source: Department of Natural Resources
 Telephone: N/A
 Last EDR Contact: 06/03/2022
 Next Scheduled EDR Contact: 09/19/2022
 Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
 Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
 Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health
 Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics
 Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 804-692-1900

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM**TARGET PROPERTY ADDRESS**

8499 BINGHAM RD
8499 BINGHAM RD
WARRENTON, VA 20187

TARGET PROPERTY COORDINATES

Latitude (North): 38.680493 - 38° 40' 49.77"
Longitude (West): 77.786635 - 77° 47' 11.89"
Universal Tranverse Mercator: Zone 18
UTM X (Meters): 257591.7
UTM Y (Meters): 4284800.0
Elevation: 531 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 13911450 WARRENTON, VA
Version Date: 2019

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

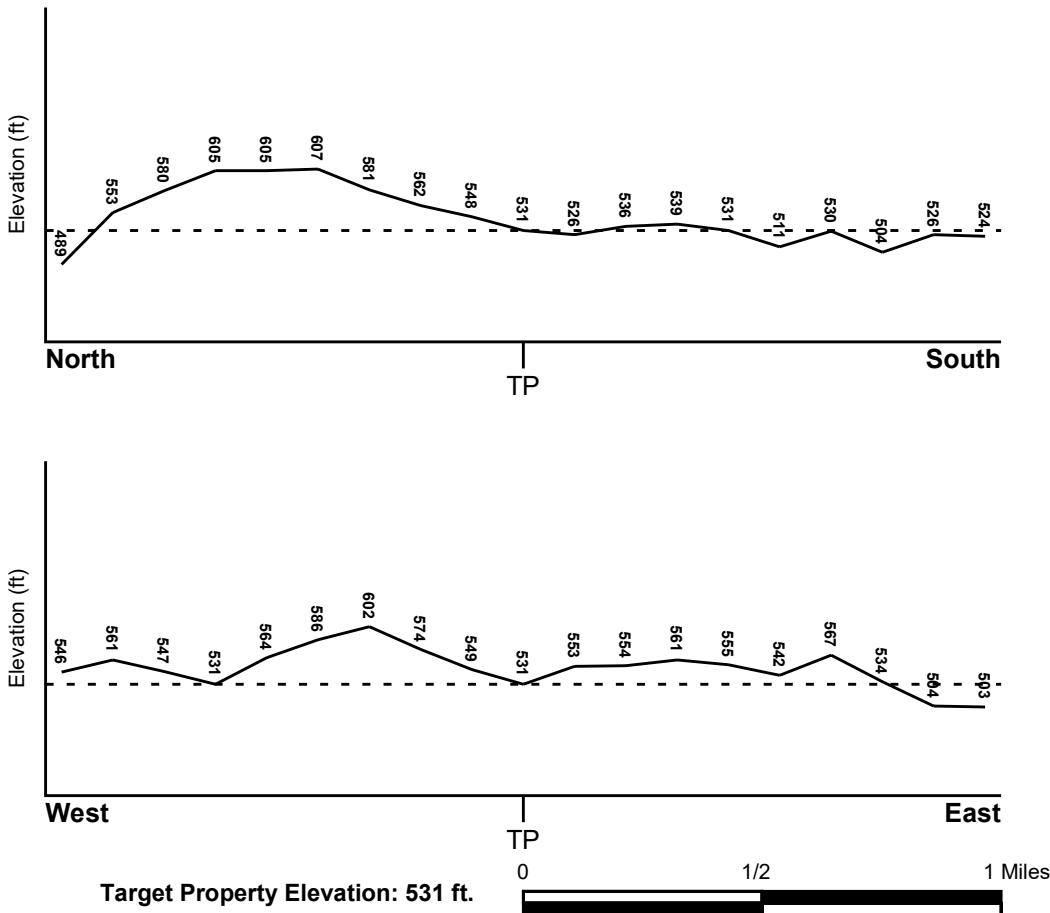
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
51061C0325C	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
51061C0308C	FEMA FIRM Flood data
51061C0309C	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
WARRENTON	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era: Mesozoic
 System: Triassic
 Series: Triassic mafic intrusives
 Code: Tri (*decoded above as Era, System & Series*)

GEOLOGIC AGE IDENTIFICATION

Category: Plutonic and Intrusive Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: CATOCTIN

Soil Surface Texture: extremely stony - silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 20 inches

Depth to Bedrock Max: > 40 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	10 inches	extremely stony - silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 6.00 Min: 2.00	Max: 6.50 Min: 5.10
2	10 inches	22 inches	channery - silt loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 6.50 Min: 5.10
3	22 inches	28 inches	very channery - silt loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 7.30 Min: 5.60
4	28 inches	32 inches	unweathered bedrock	Not reported	Not reported	Max: 0.06 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam
unweathered bedrock
flaggy - silt loam

Surficial Soil Types: silt loam
unweathered bedrock
flaggy - silt loam

Shallow Soil Types: silty clay loam
silt loam
very channery - silt loam

Deeper Soil Types: weathered bedrock
loam

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

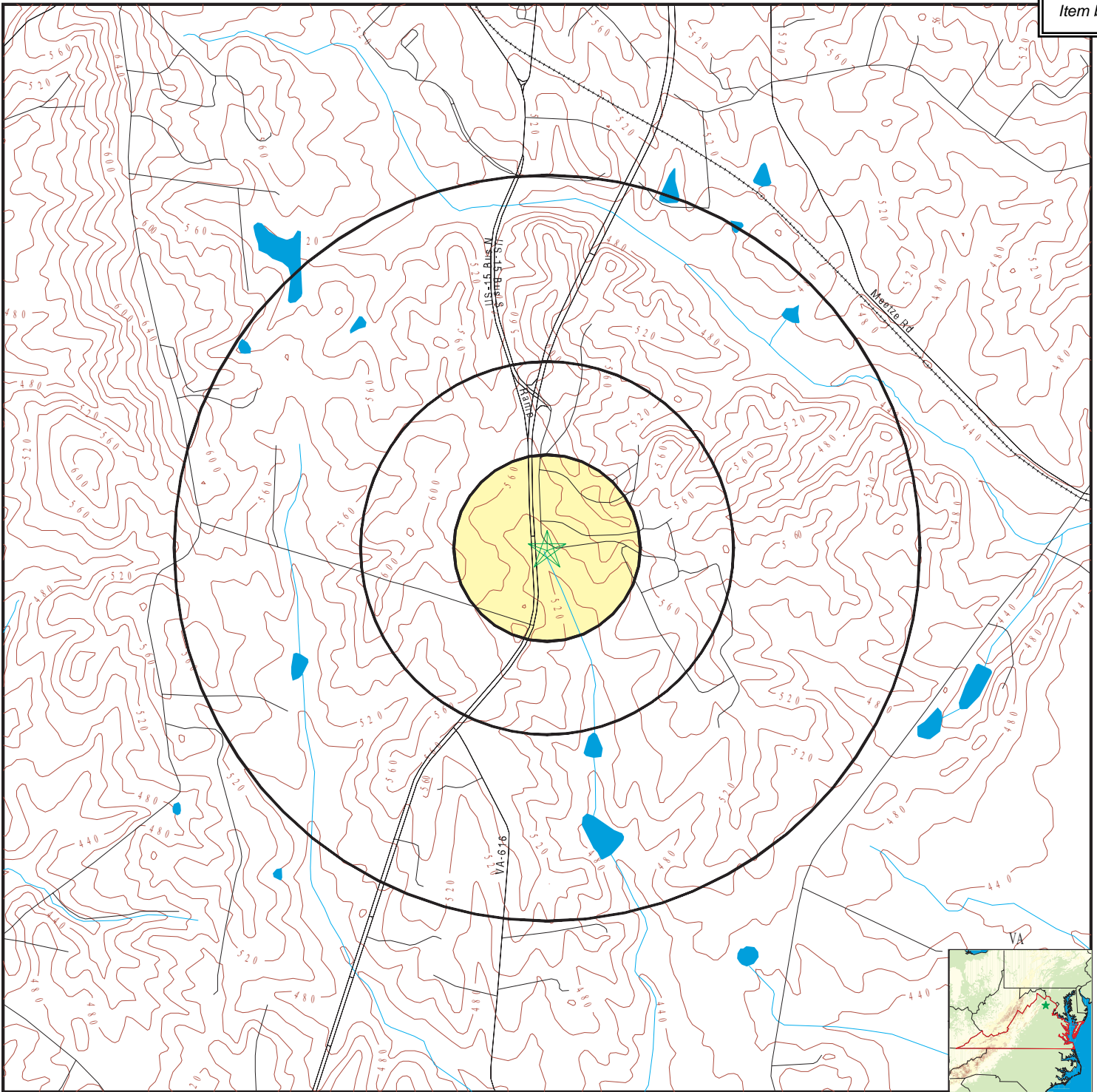
Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 7085107.2s

Item b.



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: 8499 BINGHAM RD
 ADDRESS: 8499 BINGHAM RD
 WARRENTON VA 20187
 LAT/LONG: 38.680493 / 77.786635

CLIENT: ECS Mid Atlantic, LLC
 CONTACT: Joshua Allen Peckham
 INQUIRY #: 7085107.2s
 DATE: August 12, 2022 11:55 am

1234

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for FAUQUIER County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.
- : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
- : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for FAUQUIER COUNTY, VA

Number of sites tested: 6

<u>Area</u>	<u>Average Activity</u>	<u>% <4 pCi/L</u>	<u>% 4-20 pCi/L</u>	<u>% >20 pCi/L</u>
Living Area - 1st Floor	4.450 pCi/L	50%	50%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.800 pCi/L	100%	0%	0%

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATIONAQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Virginia Public Water Supplies

Source: Department of Health, Office of Water Programs

Telephone: 804-786-1756

OTHER STATE DATABASE INFORMATION

Virginia Oil and Gas Wells

Source: Department of Mines, Minerals and Energy

Telephone: 804-692-3200

A listing of oil and gas well locations.

RADON

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

EPA Region 3 Statistical Summary Readings

Source: Region 3 EPA

Telephone: 215-814-2082

Radon readings for Delaware, D.C., Maryland, Pennsylvania, Virginia and West Virginia.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Item b.

STREET AND ADDRESS INFORMATION

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Appendix IV: Historical Research Documentation

8499 BINGHAM RD

8499 BINGHAM RD
WARRENTON, VA 20187

Inquiry Number: 7085107.5
August 16, 2022

The EDR-City Directory Image Report

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SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.

Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2017	<input type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2014	<input type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2010	<input type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2005	<input type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2000	<input type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1995	<input type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1992	<input type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1988	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1983	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1978	<input type="checkbox"/>	<input type="checkbox"/>	Hill's City Directory
1974	<input type="checkbox"/>	<input type="checkbox"/>	Hill's City Directory
1970	<input type="checkbox"/>	<input type="checkbox"/>	Hill's City Directory
1966	<input type="checkbox"/>	<input type="checkbox"/>	Hill's City Directory
1963	<input type="checkbox"/>	<input type="checkbox"/>	Hill's City Directory

EXECUTIVE SUMMARY

Year Target Street Cross Street Source

FINDINGS

TARGET PROPERTY STREET

8499 BINGHAM RD
WARRENTON, VA 20187

<u>Year</u>	<u>CD Image</u>	<u>Source</u>	
-------------	-----------------	---------------	--

BINGHAM RD

2017	-	EDR Digital Archive	Street not listed in Source
2014	-	EDR Digital Archive	Street not listed in Source
2010	-	EDR Digital Archive	Street not listed in Source
2005	-	EDR Digital Archive	Street not listed in Source
2000	-	EDR Digital Archive	Street not listed in Source
1995	-	EDR Digital Archive	Street not listed in Source
1992	-	EDR Digital Archive	Street not listed in Source
1988	-	Polk's City Directory	Street not listed in Source
1983	-	Polk's City Directory	Street not listed in Source
1978	-	Hill's City Directory	Street not listed in Source
1974	-	Hill's City Directory	Street not listed in Source
1970	-	Hill's City Directory	Street not listed in Source
1966	-	Hill's City Directory	Street not listed in Source
1963	-	Hill's City Directory	Street not listed in Source

FINDINGS

CROSS STREETS

No Cross Streets Identified

8499 BINGHAM RD

8499 BINGHAM RD

WARRENTON, VA 20187

Inquiry Number: 7085107.8

August 15, 2022

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

08/

Item b.

Site Name:

8499 BINGHAM RD
8499 BINGHAM RD
WARRENTON, VA 20187
EDR Inquiry # 7085107.8

Client Name:

ECS Mid Atlantic, LLC
14026 Thunderbolt Place
Chantilly, VA 20151
Contact: Joshua Allen Peckham



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1994	1"=500'	Acquisition Date: March 12, 1994	USGS/DOQQ
1980	1"=500'	Flight Date: March 27, 1980	USDA
1977	1"=500'	Flight Date: March 02, 1977	USGS
1970	1"=500'	Flight Date: September 25, 1970	USGS
1966	1"=500'	Flight Date: January 09, 1966	USGS
1960	1"=500'	Flight Date: April 11, 1960	USGS
1952	1"=500'	Flight Date: March 18, 1952	USGS

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Item b.



INQUIRY #: 7085107.8
YEAR: 2016



_____ = 500'

Item b.



INQUIRY #: 7085107.8
YEAR: 2012



— = 500'

1249

Item b.



INQUIRY #: 7085107.8
YEAR: 2009



_____ = 500'

1250

Item b.



INQUIRY #: 7085107.8
YEAR: 2005



_____ = 500'

1251

Item b.



INQUIRY #: 7085107.8
YEAR: 1994



_____ = 500'

1252

Item b.



INQUIRY #: 7085107.8

YEAR: 1980

_____ = 500'



1253

Item b.



INQUIRY #: 7085107.8

YEAR: 1977

_____ = 500'



Subject boundary not shown because it exceeds image extent or image not georeferenced.

1254

Item b.



INQUIRY #: 7085107.8

YEAR: 1970

_____ = 500'



1255

Item b.



INQUIRY #: 7085107.8
YEAR: 1966



_____ = 500'

Subject boundary not shown because it exceeds image extent or image not georeferenced.

1256

Item b.



INQUIRY #: 7085107.8

YEAR: 1960

_____ = 500'



1257

Item b.



INQUIRY #: 7085107.8

YEAR: 1952

_____ = 500'



Subject boundary not shown because it exceeds image extent or image not georeferenced.

1258

8499 BINGHAM RD
8499 BINGHAM RD
WARRENTON, VA 20187

Inquiry Number: 7085107.3
August 12, 2022

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.ednet.com

Certified Sanborn® Map Report

Site Name:

8499 BINGHAM RD
8499 BINGHAM RD
WARRENTON, VA 20187
EDR Inquiry # 7085107.3

Client Name:

ECS Mid Atlantic, LLC
14026 Thunderbolt Place
Chantilly, VA 20151
Contact: Joshua Allen Peckham



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by ECS Mid Atlantic, LLC were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

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Certified Sanborn Results:

Certification # 777A-415A-8241
PO # 47 13457-A
Project Town of Warrenton DPW Complex

UNMAPPED PROPERTY

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Sanborn® Library search results

Certification #: 777A-415A-8241

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

The Sanborn Library LLC Since 1866™

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Appendix V: Site Photographs



1 - East view across site



2 - Geotech boring on west of site



3 - Non-pcb transformers on northwestern portion of site



4 - North view across site



5 - North view offsite w/ Police Station



6 - Northeast offsite from top of hill



7 - Propane tank adjacent to utility building



8 - Rear of utility shed



9 - Small pond on southern portion of site



10 - Small utility shed/pumping station on northwest portion of site



11 - South view across western portion of the site



12 - Southwest view offsite from Northwest corner



13 - Stream offsite on west property



14 - View of Northern landscaped area of site



15 - View of northwest adjacent property



16 - View of southeast adjacent property



17 - View of stormwater pond located to the southwest of the site



18 - West view offsite

Appendix VI: Statement of Qualifications

Statement of Qualifications

2020

GUTS

INITIATIVE

CONSTRUCTION MATERIALS

FACILITIES



GEOTECHNICAL

ENVIRONMENTAL

RESILIENCE

TENACITY



ABOUT OUR COMPANY

Engineering Consulting Services (ECS) is one of the largest and most rapidly growing engineering and consulting companies in the US. Founded in 1988, ECS is a leader in geotechnical, environmental, construction materials and facilities engineering. We are currently ranked 69 in *Engineering News-Record's* Top 500 Design Firms (April 2020) and 52 in Zweig Group's 2020 Hot Firms (June 2020).

2,000
employees

65+
locations

30+
years' experience

ECS CORE SERVICES

- Geotechnical
- Environmental
- Construction Materials
- Facilities

ECS FOOTPRINT

Whether your project requires local project management, specialty expertise or both, we have you covered. ECS provides the best of both worlds - the attention your projects deserve from our local team, coupled with abundant staffing and technical resources. With 2,000 employees, ECS has grown to more than 65 locations spread across the Mid-Atlantic, Midwest, Southeast and Southwest.

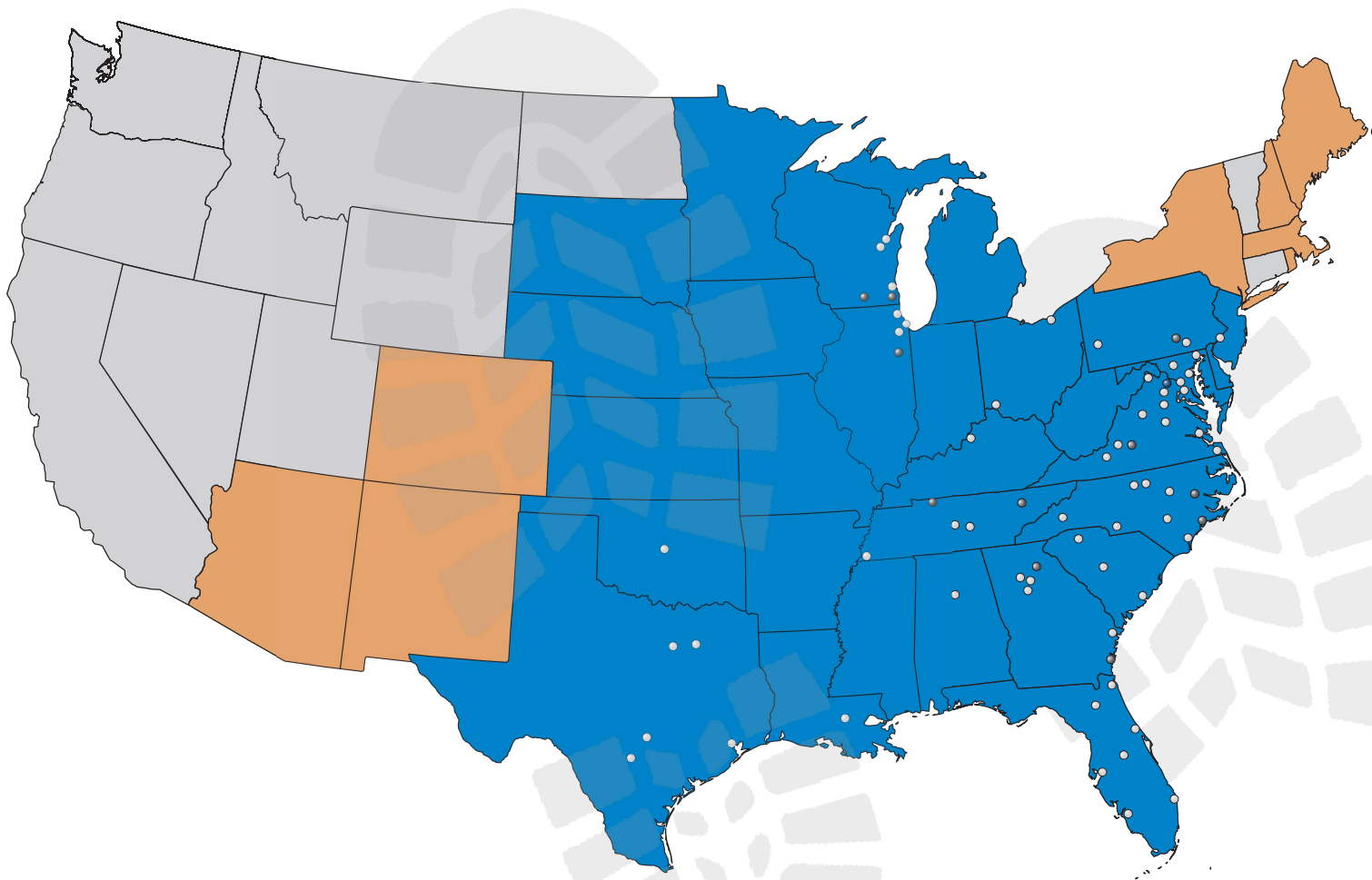
WHY ECS? WE HAVE GRIT.

What does that mean for you? That one descriptive word defines our company culture. It sets just the right tone for what our clients can expect our team to deliver each and every day. At ECS, GRIT is made up of four characteristics: guts, resilience, initiative and tenacity. Our boots are made for working. Click [here](#) for an inside look at what we do, who we are and why we have GRIT.

As a culture of doers, we roll up our sleeves and use our skills to help solve problems. We hustle.

WHEREVER YOUR PROJECT TAKES YOU, ECS HAS...

BOOTS ON THE GROUND.



SERVICES KEY

- Environmental & Facilities
- Geotechnical, Environmental, Materials Testing & Facilities
- Geotechnical, Environmental & Facilities

OFFICES KEY

- Full Service Office
- Testing Services Only
- Corporate Headquarters

Materials Testing Service Area is approximately a 75-mile radius around each office.



As part of typical commercial, industrial and residential real estate transactions, many services need to be completed prior to closing that should not be overlooked. ECS provides environmental and engineering due diligence services common to real estate transaction-driven work, including:

Environmental Due Diligence Services:

- Phase I Environmental Site Assessments (ESAs)
- Wetland and Stream Determination and Delineation Services
- Phase II Environmental Site Assessments (ESAs)
- Underground Storage Tank (UST) Assessments and Closures
- Environmental Transaction Screens (ETS)
- Regulatory Record Reviews
- HUD Assessments
- Endangered Species Assessments
- Historical and Cultural Surveys/Assessments
- Radon Assessment
- Asbestos Surveys and Abatement Design
- Lead-Based Paint Surveys and Abatement Design
- Microbial and Indoor Air Quality Assessments
- Vapor Intrusion Assessments
- Fannie Mae and Freddie Mac Assessments
- Contaminated soil management plans

Facilities Due Diligence Services:

- Accessibility Consulting
- Bank Draw Review
- Pre and Post Construction Surveys
- Property Condition Assessments (PCAs)
- Forensic Investigations
- GPR Surveys
- EIFS Services

Engineering Due Diligence Services:

- Subsurface Geotechnical Explorations
- Test Pit Evaluations
- Seismic Studies
- Cost estimating for construction
- Geologic Assessments

Joshua Peckham

ENVIRONMENTAL SCIENTIST



CERTIFICATIONS

OSHA 40 Hour Hazardous Waste Operations Training Certification (HAZWOPER)

8-Hour Hazardous Waste and Emergency Response Refresher

38-Hour Army Corps of Engineers Wetland Delineation Training program

Provisional Virginia DEQ Erosion & Sediment Control inspector

Provisional Virginia DEQ Storm Water Management Inspector

American Concrete Institute Inspector Certification

SKILLS

Phase I Assessments

Phase II Remediation Activities

Wetland Delineation, permitting
Construction Materials Testing

EDUCATION

Bachelor of Science, 2017,
Environmental Science with Wetland
Science minor

Virginia Polytechnic Institute
and State University, Blacksburg, VA

YEARS OF EXPERIENCE

Environmental Scientist
2021-present

Environmental Technician
2017, 2018-2021

Construction Material Technician
2018

PROFESSIONAL PROFILE

Mr. Peckham is an Environmental Scientist with five years of experience with ECS Mid-Atlantic, LLC. Duties as an environmental scientist include developing Phase I Site Assessments; Wetland delineation and permit compliance monitoring; Virginia stormwater and erosion and sediment control (SWPPP) inspections; and performing a variety of Phase II remediation activities.

PROJECT EXPERIENCE

- *Dominion Liberty Rail Spur, Manassas, VA* – Wetland permit compliance monitoring, SWPPP inspections and permitting.
- *Dominion Possum Point Power Station, Dumfries, VA* – Phase II water treatment remediation, coal ash dewatering treatment system operation and maintenance.
- *Dominion Chesterfield Power Station, Chesterfield, VA* – Phase II water treatment remediation, coal ash dewatering treatment system operation and maintenance.
- *The Wharf phase II, Washington, DC*. Phase II excavation monitoring
- *Hanover Pike Phase 1 ESA, Hanover, Maryland*. Phase 1 report generation
- *Potomac Creek, Fredericksburg, VA*, materials testing
- *Montross Solar Project, Montross, VA*, materials testing
- Field screening and sampling of petroleum impacted materials.
- Excavation and remediation of contaminated materials support
- Wetland delineation, flagging, and mapping
- Wetland impact permitting and compliance monitoring
- Soil boring, sampling, well installation, and related sub-surface work
- Dewatering system construction, operation, maintenance, and sampling.
- Wetland and SWPPP permit monitoring proposal generation
- Sub-slab and soil vapor sampling
- Soil and asphalt compaction testing
- ACI & WACEL concrete inspection and testing
- Nuclear gauge use and radiation safety training
- On-site dust and air monitoring for safety compliance
- Ground Penetrating Radar survey assistance
- Air emission permitting work



Ryan J. Croyle, REM

Regional Environmental Manager

EDUCATION

Bachelor of Science, 1998, Environmental Science/Biology, Edinboro University, Edinboro, PA

CERTIFICATIONS

National Registry of Environmental Professionals, Registered Environmental Manager

38-Hour Army Corps of Engineers Wetland Delineation Training Program

OSHA HAZWOPER 40 Hour Certification & Refreshers

New Jersey DEP Subsurface Evaluator License, Reg. No. 207176

EPA AHERA Asbestos Building Inspector Certification (Multiple states)

NIOSH 582 Certification (Collecting and Analyzing Asbestos Air Samples)

Mr. Croyle is the Regional Environmental Manager/ Principal Reviewer for the ECS Mid-Atlantic Northern Region. His responsibilities include managing the environmental staff, as well as coordinating, preparing, and reviewing environmental programs and services.

ENVIRONMENTAL MANAGER – Mr. Croyle provides principal review of Phase I and II Environmental Site Assessments, site characterization and remedial investigation reports, underground storage tank removal and remediation, State Voluntary Cleanup Programs, wetland determinations, risk assessments and hazardous materials surveys, health and safety plans (HASPs) environmental impact statements, and wetlands delineation studies.

SAMPLE PROJECT EXPERIENCE

- Department of the Navy, Polychlorinated Biphenyl (PCB) Impacted Soil Removal, Mechanicsburg, PA
- Fairpoint Communications, Bentleyville, PA
- MD State Highways Environmental Contract, Multiple Locations, MD
- Direct To You Gas, Adams County, PA
- Queensgate Plaza, York, PA
- Tanger Property, Hanover PA
- PNC Financial Services Group, Environmental, National Account Manager, Multiple Locations, US
- PNC Financial Services Group, Mercantile Bank, MD and PA
- Commercial Shopping Center, Brewers Hill, MD
- Cintas West Philadelphia Brownfields Redevelopment, Philadelphia, PA
- Center Point Baltimore, MD
- Bank of America, Environmental, Multiple Locations, PA
- Broadway Arts, Long Branch, NJ
- Bell Telephone Laboratory Consultation, Chester, NJ
- Broadway Arts Redevelopment, Long Branch, NJ
- Tractor Supply Company, Multiple Locations, MD, PA, NJ, MA
- AutoZone, Multiple Locations, PA, NJ, NH, MA, ME
- Millersville University, Millersville, PA
- BELCO Corporate Headquarters, Harrisburg, PA

Appendix VII: Acronyms

List of Common Acronyms

AULs	Activity and Use Limitations
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
ACM	Asbestos Containing Materials
BER	Business Environmental Risk
CORRACTS	CERCLA Corrective Action List
NPL	CERCLA National Priorities List
NFRAP	CERCLA No Further Remedial Action Planned
CERCLA	Comprehensive Environmental Response Cleanup Liability Act
CESQG	Conditionally Exempt Small Quantity Generator
CREC	Controlled Recognized Environmental Condition
ERNS	Emergency Response Notification System
EC	Engineering Controls
HIST LF	Historical Landfill
HREC	Historical Recognized Environmental Condition
IC	Institutional Controls
LQG	Large Quantity Generator
LBP	Lead Based Paint
LTANKS	Leaking Tanks
LUST	Leaking Underground Storage Tank
REC	Recognized Environmental Condition
RCRA	Resource Conservation and Recovery Act
RCRIS	Resource Conservation and Recovery Information System
SQG	Small Quantity Generator
SWF/LF	Solid Waste Facility/Landfill
SHWS	State Hazardous Waste Sites
UST	Underground Storage Tank
USGS	United States Geological Survey





NORFOLK DISTRICT REGULATORY OFFICE PRE-APPLICATION AND/OR JURISDICTIONAL WATERS DETERMINATION REQUEST FORM

This form is used when you want to determine if areas on your property fall under regulatory requirements of the U.S. Army Corps of Engineers (USACE). Please supply the following information and supporting documents described below. This form can be filled out online and/or printed and then mailed, faxed, or e-mailed to the Norfolk District. Submitting this request authorizes the US Army Corps of Engineers to field inspect the property site, if necessary, to help in the determination process. **THIS FORM MUST BE SIGNED BY THE PROPERTY OWNER TO BE CONSIDERED A FORMAL REQUEST.**

The printed form and supporting documents should be mailed to:

U.S. Army Corps of Engineers, Norfolk District
Regulatory Branch
803 Front Street
Norfolk, Virginia 23510-1096

Or faxed to (757) 201-7678

Or sent via e-mail to: CENAO.REG_ROD@usace.army.mil

Additional information on the Regulatory Program is available on our website at:
<http://www.nao.usace.army.mil/>

Please contact us at 757-201-7652 if you need any assistance with filling out this form.

Location and Information about Property to be subject to a Jurisdictional Determination:

1. Date of Request: September 14, 2022
2. Project Name: Town of Warrenton Site A
3. City or County where property located: Town of Warrenton, Fauquier County
4. Address of property and directions (attach a map of the property location and a copy of the property plat): ^{8499 Bingham Road, Town of Warrenton, Fauquier County 20186}
5. Coordinates of property (if known): 38.679000, -77.784000
6. Size of property in acres: 10
7. Tax Parcel Number / GPIN (if available): 6983-81-0145-000
8. Name of Nearest Waterway: Mill Run

9. Brief Description of Proposed Activity, Reason for Preapplication Request, and/or Reason for Jurisdictional Waters Determination Request:
To determine if jurisdictional waters are present on the subject property.

10. Has a wetland delineation/determination been completed by a consultant or the Corps on the property previously? YES NO UNKNOWN

If yes, please provide the name of the consultant and/or Corps staff and Corps permit number, if available:

Property Owner Contact Information:

Property Owner Name: Board of Supervisors of Fauquier County
Mailing Address: 10 Hotel Street, 2nd Floor
City: State: Zip: Warrenton, Virginia 20186
Daytime Telephone:
E-mail Address:

If the person requesting the Jurisdictional Determination is **NOT** the Property Owner, please also supply the Requestor's contact information here:

Requestor Name: Emily Grimes
Mailing Address: 1340 Charwood Road, Suite B
City: State: Zip: Hanover, Maryland 21076
Daytime Telephone: 410-859-4300
E-mail Address: EGrimes@ECSLimited.com

Additionally, if you have any of the following information, please include it with your request: wetland delineation map, other relevant maps, drain tile survey, topographic survey, and/or site photographs.

CERTIFICATION: I am hereby requesting a preapplication consultation or jurisdictional waters and/or wetlands determination from the U.S. Army Corps of Engineers, for the property(ies) I have described herein. I agree to allow the duly authorized representatives of the Norfolk District Corps of Engineers and other regulatory or advisory agencies to enter upon the premises of the project site at reasonable times to evaluate inspect and photograph site conditions. This consent to enter the property is superior to, takes precedence over, and waives any communication to the contrary. For example, if the property is posted as "no trespassing" this consent specifically supercedes and waives that prohibition and grants permission to enter the property despite such posting. I hereby certify that the information contained in the Request for a Jurisdictional Determination is accurate and complete:

Property Owner's Signature

Date



Office of the Town Manager

Frank Cassidy

STAFF REPORT

Warrenton Town Council

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Paul Mooney, At Large
David McGuire, At Large

Item c.

Council Meeting Date:	October 10, 2023
Agenda Title:	Community Development: Zoning Update
Requested Action:	Hold the Work Session
Department / Agency	Department of Community Development
Lead:	
Staff Lead:	Rob Walton, Director

EXECUTIVE SUMMARY

This staff report provides an update on the Department of Community Development’s goal to update the Zoning Ordinance that aligns with the Town’s Comprehensive Plan and the adopted budget.

BACKGROUND

The Town’s Comprehensive Plan (Plan Warrenton 2040) update was adopted in April 2021. Subsequently, funds were allocated to update the Zoning Ordinance to be more in line with the Plan Warrenton 2040 during the FY2024 budget process. Community Development has received a proposal from an on-call consultant. Based on the estimated cost, Community Development would like to request proposals from additional qualified consultants prior to awarding the contract.

Service Level/Policy Impact

The Town Council’s adoption of Plan Warrenton 2040 shows the desire to begin creating zoning regulations to promote character districts and attainable housing as specified in Plan Warrenton 2040. Affordable housing has also been a key discussion point that may be able to start being addressed with the update of the Zoning Ordinance, specifically with the revising of the accessory dwelling unit standards that currently exist. There are other areas of the Zoning Ordinance that should be revised at this time to bring the document up to date with the State Code as well as making the Ordinance more consistent throughout.

Once selected, staff will work closely with the consultant to map the process to include an inventory of existing development, layout the public input process, revisions to the drafted text, and processing the text amendment through the public hearing processes through the Planning Commission and Town Council. The process is anticipated to include the formation of a steering committee and initial public input meetings to create the changes. Public involvement will be available during the entirety of the

Zoning Ordinance update. All text amendments go through the public hearing process at the Planning Commission and Town Council meetings for input.

The goal of updating the Zoning Ordinance is to create the five (5) character districts as envisioned with Plan Warrenton 2040. In addition, some sections are outdated in that multiple terms are used for the same uses within different zoning districts, uses requiring Special Use Permits are restricted from the legislative process by the State Code, and accessory dwelling unit regulations can be revised to create more attainable housing within the Town to name a few.

Fiscal Impact

Town Council allocated \$200K in ARPA funds for the Zoning Ordinance updates during the FY24 budget process.

Legal Impact

There are current regulations contained within the Zoning Ordinance that cannot be regulated through the legislative process. Bringing the Zoning Ordinance up to date may help reduce liability in the future.



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Item d.

Council Meeting Date:	October 10, 2023
Agenda Title:	Nondisclosure Agreements
Requested Action:	Information Only
Department / Agency Lead:	Town Attorney
Staff Lead:	Martin Crim

EXECUTIVE SUMMARY

The purpose of this report is to lay out the background information necessary for an understanding of the issues and tradeoffs involved with nondisclosure agreements (NDA's). The Town Attorney will present this information and respond to questions at the council meeting. Questions regarding specific legal cases, or which reveal confidential client information, should be withheld until a closed session, if one is desired.

BACKGROUND

This section presents some questions raised and provides the statutes and ordinances governing NDA's in the Town.

1. Does VA have laws relating to NDAs between State/local governments and other entities such as private sector companies?

Answer: Yes, besides the general statutes such as the Uniform Trade Secrets Act, [Va. Code Title 59.1 Chapter 26](#), there are specific provisions in the Virginia Freedom of Information Act addressing proprietary records and trade secrets. [Va. Code § 2.2-3705.6](#). In addition, other state statutes make disclosure of certain specific information, like tax records, subject to criminal penalties.

2. Does the Town of Warrenton have any specific code/ordinances relating to the use of NDAs?

Answer: Yes, the Town Code's procurement provisions address confidential information which could be the subject of an NDA. See Town Code §§ 2-194 and Appendix B.

3. Why are NDAs allowed by VA law?

Answer: While neither the Uniform Trade Secrets Act nor VFOIA have specific purpose language regarding confidential information, the apparent purpose is to protect property rights in certain business information and to encourage communication that facilitates economic development. More broadly, NDA's fall within the right to contract.

4. What is typically covered in an NDA for economic development?

Answer: Depending on the stage of development, an NDA could conceal the name of the developer, the nature or size of the proposed project, assessments of market conditions, real estate appraisals, and plans for specific improvements. The Uniform Trade Secrets Act defines "Trade Secret" as follows:

information, including but not limited to, a formula, pattern, compilation, program, device, method, technique, or process, that:

- 1. Derives independent economic value, actual or potential, from not being generally known to, and not being readily ascertainable by proper means by, other persons who can obtain economic value from its disclosure or use, and
- 2. Is the subject of efforts that are reasonable under the circumstances to maintain its secrecy.

5. How long are they in effect?

Answer: Like any other contract, the NDA will define its own term and the conditions, if any, for termination.

6. Does Fauquier County allow the use of NDAs?

Answer: My understanding is that they do, typically in the context of economic development.

STAFF RECOMMENDATION

Receive the information; if there are any questions regarding pending legal cases or specific legal claims, they should be deferred to a closed session.

Service Level/Policy Impact

Background only.

Fiscal Impact

No direct impact.

Legal Impact

Failure to protect information covered by NDA's may result in legal action.

ATTACHMENTS

None.



Office of the Town Manager

Frank Cassidy

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Item a.

Council Meeting Date:	October 10 th , 2023.
Agenda Title:	Dominion Energy Report
Requested Action:	Receive the Report from Dominion Power
Department / Agency Lead:	Town Council
Staff Lead:	Frank Cassidy

EXECUTIVE SUMMARY

A representative from Dominion Energy will give a report to the Town Council.

BACKGROUND

Dominion Energy, Inc., commonly referred to as Dominion, is an American power and energy company headquartered in Richmond, Virginia that supplies electricity in parts of Virginia, North Carolina, and South Carolina and supplies natural gas to parts of Utah, Idaho and Wyoming, West Virginia, Ohio, Pennsylvania, North Carolina, South Carolina, and Georgia. Dominion also has generation facilities in Indiana, Illinois, Connecticut, and Rhode Island.

STAFF RECOMMENDATION

Receive the report from Dominion Energy.

Service Level/Policy Impact

Dominion Energy is the provider for energy needs within the Town of Warrenton. A collaborative relationship with the company helps power all aspects of Plan Warrenton 2040.

Fiscal Impact

No fiscal impact at this time.

Legal Impact

No Legal impact at this time.

ATTACHMENTS

1. None