

Agenda
Town Board Meeting
March 22, 2023
6:30 PM

1. Virtual Meeting Instructions - March 22, 2023

Documents:

[3-22-23 TOWN BOARD MEETING INSTRUCTIONS.PDF](#)

2. Pledge Of Allegiance

3. Open Podium

Grant deBruin - Police Chief Resignation

4. Appointment Of The Interim Police Chief

Documents:

[INTERIM POLICE CHIEF AGREEMENT - TOWN OF MANLIUS.PDF](#)

5. Nuisance Property Report - 607 Washington Blvd. - Code Enforcement Officer

Documents:

[INITIAL UNSAFE STRUCTURE RESOLUTION - WALCKER III.PDF](#)
[NOTICE OF UNSAFE BUILDING WALCKER.PDF](#)

6. Sustainable Manlius Earthfest Presentation - Craig Polhamus

7. Set Date - Work Session - Draft Comprehensive Plan

8. Engineering Letter Of Interest Update

9. Muirfield Drainage Assessment

Documents:

[MJ1456.07 DRAFT MUIRFIELD DRAINAGE ASSESSMENT.PDF](#)

10. Neighborhood Sidewalk Program

Documents:

[NSP SUPPORT PETITION-V2.PDF](#)
[NEIGHBORHOOD SIDEWALK PROGRAM APPLICATION.PDF](#)
[NEIGHBORHOOD SIDEWALK PROGRAM \(NSP\).PDF](#)
[NSP PRESENTATION.PDF](#)

11. Set Date For A Public Hearing - Draft Local Law To Establish A Planned Use District (PUD)

Documents:

[LOCAL LAW 2023 - ____ PLANNED UNIT DEVELOPMEN PH.PDF](#)

12. Approval Of Minutes - March 8, 2023

Documents:

[3-8-23 DRAFT.PDF](#)

13. Approval Of Abstract # 6

Documents:

[ABSTRACT 6.PDF](#)

14. Approval Of Minutes - March 16, 2023 & March 22, 2023

Documents:

[3-16 -23 DRAFT.PDF](#)

[3-22-23 DRAFT.PDF](#)

15. January Supervisor Report

Documents:

[BALANCE SHEET.PDF](#)

[CASH BALANCE REPORT.PDF](#)

[YTD ACTUAL TO BUDGET TOTAL - FUND DETAIL.PDF](#)

16. February Supervisor Report

Documents:

[BALANCE SHEET.PDF](#)

[CASH BALANCE REPORT.PDF](#)

[YTD ACTUAL TO BUDGET TOTAL - FUND DETAIL.PDF](#)

17. Adjournment

This meeting is being recorded and live streamed. The recording will be broadcast live and will be posted to the town website at www.townofmanlius.org



March 22, 2023

6:30 PM

Town Board Meeting Instructions

The easiest way to participate in the meeting is to use the link provided below. The meeting will be conducted on the ZOOM platform as a webinar. Please make sure that when you complete your attendee registration you enter your full name.

Click on the link or enter the meeting URL web address as listed below.

<https://us02web.zoom.us/j/87133274622?pwd=UXJ2bjdXZ2ExMDdybkF1LythVmxpUT09>

Password to join when prompted:

Password: **261904**

Enter your email address and name and join the meeting.

Join by telephone by dialing the number below:

(929) 436-2866

When prompted to enter the Webinar ID, use the number below followed by #

Webinar ID: 871 3327 4622

Press # again to skip the personal id and enter the password below followed by #

Password: **261904**

If this is your first time joining a ZOOM meeting, you may practice using ZOOM meeting platform at <https://zoom.us/test>.

CONTRACT FOR TEMPORARY EMPLOYMENT

INTERIM POLICE CHIEF

THIS AGREEMENT is made by and between **THE TOWN OF MANLIUS** (hereinafter, the "Town"), and Jason Cassalia, who is hereby appointed as Police Chief (hereinafter, the "Interim Police Chief").

WITNESSETH THAT:

WHEREAS, the Town desires to hire an Interim Police Chief for the Town of Manlius Police Department (the "Town" and the "Department" respectively) due to the resignation of the current Police Chief, upon the terms and conditions set forth herein; and

WHEREAS, the Interim Police Chief has accepted said offer of employment; and

WHEREAS, the Town and the Interim Police Chief have mutually agreed that such terms and conditions should be reduced to writing in order to avoid any misunderstanding as to the nature of the employment relationship created hereby; and

WHEREAS, the parties have mutually agreed upon the following terms and conditions relative to the Interim Police Chief's employment by the Town; and

NOW, THEREFORE, in consideration of the agreements hereinafter set forth and other good and valuable consideration, the parties agree as follows:

1. **Offer of Employment.** The Town, pursuant to any applicable provisions of any statute governing the appointment of employees, and in accordance with a resolution duly introduced and adopted shall employ the Interim Police Chief as the upon the terms and conditions set forth in this Agreement.

2. **Acceptance by Interim Police Chief.** The Interim Police Chief hereby confirms his acceptance of the said offer of employment and agrees to perform, to the best of his ability, the duties of such position in a professional and competent manner.

3. **Term of Employment.**

a. The Interim Police Chief's employment shall be temporary while the Town takes steps to employ a Police Chief more permanently. The Town expects said temporary employment to last for a period of up to ninety working days. The Interim Police Chief's employment will begin effective April 3, 2023.

b. Any extension of the term of the Interim Police Chief's employment shall be in the form of a written Amendment to this Agreement, shall be upon the same terms and conditions as herein set forth unless otherwise agreed to in writing by the parties; and it shall not be considered that the Town and the Interim Police Chief have entered into a new Agreement, unless expressly stated in a writing signed by both parties hereto.

4. **Interim Police Chief's Duties and Responsibilities.**

a. The Interim Police Chief shall be appropriately deputized and sworn an officer of the Manlius Police Department. He shall furthermore possess all the powers and authority of the Department's Police Chief with respect to the operations of the Department. Specifically, given his

experience and qualifications, his purpose shall be to provide excellent leadership for the Department following the prior Chief's resignation, which was effective March 17, 2023.

b. The Interim Police Chief shall work full-time during the period of this Agreement; however, due to the limited notification the Town had regarding its vacancy in the position, the Town understands and agrees that the Interim Police Chief had prior commitments during the temporary period of employment, which he will keep the Town Supervisor informed about, but shall be permitted to attend.

c. The Interim Police Chief agrees to perform all services of the Police Chief per this Agreement in accordance with all applicable Federal and State statutes, regulations, rules, and Town or Department needs/directives.

d. The Interim Police Chief is furthermore authorized and empowered to serve the Town in the capacity as the Chief of Police and will be sworn in as such at the first Town Board meeting following the Interim Police Chief's signature on this Agreement.

e. The Town may, from time to time, prescribe additional duties and responsibilities for the Interim Police Chief which are not inconsistent with the position, and which are agreed upon between the Town Supervisor and the Interim Police Chief.

5. **Certification**. The Interim Police Chief understands and represents that he shall possess any and all valid certifications, licenses, and otherwise necessary approvals to act as a Interim Police Chief of the Department at all times during the term of his employment with the Town. The Interim Police Chief's lack of such certification at any such time shall be deemed to automatically terminate his employment and this Agreement without the necessity for any action by the Town or the Interim Police Chief.

6. **Compensation**. The Interim Police Chief shall be compensated through bi-weekly payroll at the annual salary rate of \$135,000.00. His salary stated herein will continue only for the temporary period in which he serves as Interim Police Chief. If this Agreement is extended beyond the ninety-day period set forth in Paragraph 3a, and pursuant to an extension as required by Paragraph 3b, in addition to bi-weekly salary, the Interim Police Chief shall receive a monthly stipend in the amount of \$3400.00.

7. **Other Benefits of Employment**. The Interim Police Chief shall not be eligible for vacation pay, sick leave, compensatory time, life insurance, or other benefits associated with permanent employment except as specified herein. In performing the services described in this Agreement, the Interim Police Chief shall be covered by the Town's applicable insurance policy(ies) and will be provided indemnification to the same extent as any sworn member of the Department/Police Chief.

8. **Reimbursement for Expenses**. The Interim Police Chief shall be reimbursed for the actual expenses incurred in connection with his activities for and on behalf of the Town in connection with the execution of his duties and responsibilities as set forth in Paragraph 4(a) above. The Interim Police Chief shall provide the Town with an itemized accounting of such expenditures prior to reimbursement, subject to audit by the Town's auditor. The Interim Police Chief shall be provided with the Town owned police vehicle for his use by the Police Chief as a take home vehicle.

9. **Technology**. The Interim Police Chief may request any technology necessary to carry out his duties and responsibilities set forth in this Agreement, provided the use of any technology complies with applicable Town policies and procedures.

10. **Indemnification**. The Town agrees to provide legal counsel and to indemnify the Interim Police Chief against all uninsured financial loss arising out of any claim, demand, suit or judgment by reason of alleged negligence or other conduct resulting in bodily or other injury to any person or damage

to the property of any person, excluding criminal conduct, committed while the Interim Police Chief is acting within the scope of his employment or under the direction of the Town. The Town shall have the right and authority to conduct the defense of any suit and proceeding, including the right, in the Town's discretion, to settle such suit or claim at any time. This Paragraph shall survive the term and be enforceable after the termination of this Agreement.

11. **Termination**. The employment relationship between the Interim Police Chief and the Town may be terminated prior to the expiration of the Interim Police Chief's term of employment, for any of the following reasons:

- a. Disability of the Interim Police Chief;
- b. Written resignation of the Interim Police Chief;
- c. Termination upon agreement;
- d. Discharge for cause.

12. **Conditions for Termination Other than Expiration of Term of Employment**. Any termination of the parties' employment relationship hereunder, other than the termination of the Agreement by reason of the expiration of the Interim Police Chief's term of employment, shall be governed by the following:

a. Disability of the Interim Police Chief. If, by reason of disability due to illness or other incapacitation, the Town may elect to terminate this Agreement, at which time all obligations of the Town to the Interim Police Chief shall cease.

b. Written Resignation of Interim Police Chief. The Interim Police Chief may, at his option, resign from his employment by the Town of Manlius Police Department upon giving written notice of such resignation to the Town at least seven (7) days in advance of the effective date of such resignation. Upon receipt of such notice, the Town, may, at its option, advance the effective date of such resignation up to the date of receipt thereof, and this Agreement shall terminate and become null and void as of the ultimate effective date of such resignation as determined by this paragraph. The Interim Police Chief shall be obligated, in any event, to fully perform his duties up to the effective date of such resignation.

c. Termination by Agreement between Interim Police Chief and Town. Either party may propose to terminate this Agreement upon mutually acceptable terms. In the event of such occurrence and the execution of a written termination agreement, the terms and conditions thereof shall supersede any and all terms of this Agreement, which shall become null and void upon the termination date specified in said termination agreement.

d. Discharge for Cause. The Town shall be entitled to discharge the Interim Police Chief for cause. Cause shall constitute conduct that is prejudicial to the Town, including, but not limited to, the neglect by the Interim Police Chief of his duties and responsibilities, incompetence, insubordination, inefficiency or the commission of a crime or immoral act.

13. **Written Agreement**. This Agreement is the sole agreement between the parties concerning the terms and conditions of the Interim Police Chief's employment, and it shall continue in full force and effect for the term expressed herein, unless otherwise terminated, modified or extended in accordance with the above specified provisions, or by another agreement in writing, executed in like manner, between the parties.

14. **Miscellaneous Provisions.** This Agreement shall be governed by the laws of the State of New York without reference to its conflicts of law provisions, and the venue for any action to interpret or enforce this Agreement shall be in Onondaga County, New York. In addition, in the event litigation is commenced to interpret or enforce this Agreement, the substantially prevailing party shall be entitled to recover reasonable attorney's fees and litigation expenses from the other party. If any provision of this Agreement shall be or become invalid under any provision of federal, state or local law, such invalidity shall not affect the validity or enforceability of any other provision hereof.

15. **Entire Agreement.** This Agreement attached hereto set forth the entire understanding between the parties with respect to the subject matter hereof, and no amendment, change or modification of this Agreement shall be effective unless in writing and signed by both parties hereto.

16. **Additional Provisions.** The waiver of a breach of any provision of this Agreement by either party shall not operate or be construed as a waiver of any subsequent breach. Any provision of this Agreement that by its terms requires performance by one or both parties following its expiration or termination shall survive such expiration or termination. Each party hereby represents and warrants to the other that: (i) the individual signing below is duly authorized and directed to execute this Agreement on that party's behalf; and (ii) this Agreement constitutes a legal, valid and binding obligation upon the executing party. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original but all of which together shall constitute a single instrument.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date first above written.

Dated: March __, 2023

Dated: March __, 2023

John Deer, Town Supervisor

Jason Cassalia, Interim Police Chief

**IN THE MATTER
Of**

**PROCEEDINGS PURSUANT TO CHAPTER
63 OF THE TOWN OF MANLIUS CODE
RELATIVE TO PREMISES ALLEGED TO
BE UNSAFE REPUTEDLY OWNED BY
JOSEPH WALCKER, III SITUATED AT 607
WASHINGTON BLVD AND/OR 606
CLEVELAND BLVD, FAYETTEVILLE, NY,
TOWN OF MANLIUS (TAX MAP NO. 083.-
05-12.0 AND 083.-05-19.0)**

**RESOLUTION AUTHORIZING
REMOVAL AND/OR
DEMOLITION OF
DANGEROUS OR UNSAFE
STRUCTURE(S)**

The **TOWN BOARD OF THE TOWN OF MANLIUS**, in the County of Onondaga, State of New York, met in regular session at the Town Hall in the Town of Manlius, located at 301 Brooklea Drive in the Village of Fayetteville, County of Onondaga, State of New York, and virtually on the platform commonly referred to as Zoom, the Town Facebook page and YouTube on the ____th of _____, 2023, at 6:30 p.m.

The meeting was called to order by John T. Deer, Supervisor, and the following were present, namely:

John T. Deer	Supervisor
Sara Bollinger	Councilor
Elaine Denton	Councilor
Alissa Italiano	Councilor
Katelyn M. Kriesel	Councilor
William Nicholson	Councilor
Heather Allison Waters	Councilor

The following resolution was moved, seconded and adopted:

WHEREAS, the Town Board, at its March 22, 2023 regular meeting, reviewed an Inspection Report, dated 3-17-23, prepared and submitted by Thomas Poitras, the Town of

Manlius Code Enforcement Officer (the Inspection Report is attached to this Resolution as Exhibit A and made part of hereof) that stated the 12' x 12' structure erected on the property located at 607 Washington Blvd. and/or 606 Cleveland Blvd., Fayetteville, NY (Property Tax Nos. 083.-05-12.0 and 083.-05-19) is in violation of Chapter 63 of the Town Code ("Unsafe Building");

WHEREAS, the Town Board agrees with the Inspection Report and is required to provide Notice of said violation of Chapter 63 to the property owner;

NOW THEREFORE, BE IT

RESOLVED, that the Town Board hereby authorizes the Town Clerk and/or the Code Enforcement Officer to issue the Notice of Violation and Order, attached to this Resolution as Exhibit B, to Joseph Walcker, III; and be it further

RESOLVED, that the Town Supervisor is hereby delegated whatever authority required to execute the Notice and Order and to work with the Town Attorney and Code Enforcement Officer to implement this Resolution.

I, ALLISON WEBER, Town Clerk of the Town of Manlius, **DO HEREBY CERTIFY** that the preceding Resolution was duly adopted by the Town Board of the Town of Manlius at a regular meeting of the Board duly called and held on the ____ day of March, 2023; that said Resolution was entered in the minutes of said meeting; that I have compared the foregoing copy with the original thereof now on file in my office; and that the same is a true and correct transcript of said Resolution and of the whole thereof.

I FURTHER CERTIFY that all members of said Board had due notice of said meeting.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the Town of Manlius, this ____th day of March, 2023.

DATED: March ____, 2023
Fayetteville, New York

Allison Weber
Town Clerk of the Town of Manlius
Onondaga County, New York

TOWN OF MANLIUS COUNTY OF ONONDAGA

IN THE MATTER

OF

NOTICE AND ORDER
PURSUANT TO TOWN OF
MANLIUS

CODE §§63-3,4

PROCEEDINGS PURSUANT TO CHAPTER 63 OF
THE TOWN OF MANLIUS CODE RELATIVE TO
PREMISES ALLEGED TO BE UNSAFE REPUTEDLY
OWNED BY JOSEPH WALCKER, III AND LOCATED AT
OR ABOUT 607 WASHINGTON BLVD. AND 606 CLEVELAND BLVD.
FAYETTEVILLE, NY 13057 (TAX MAP NOS. 083.-05-12.0 AND
083.-05-19.0)

TO: JOSEPH WALCKER, III

PLEASE TAKE NOTICE that the Codes Enforcement Officer of the Town of Manlius, Onondaga County, has filed a written report (“Report”) with the Town Board of the Town of Manlius pursuant to the provisions of Chapter 63 of the Code of the Town of Manlius regarding the unsafe building or structure situate on premises reputedly owned by you at 607 Washington Blvd., and/or 606 Cleveland Blvd., Fayetteville, New York in the Town of Manlius, designated as Onondaga County Tax Map Parcel Nos. 083.-05-12.0 and 083.-05-19.0 (“Premises”). A copy of the Report is attached hereto as Exhibit “A”.

The Town Board of the Town of Manlius, pursuant to the provisions of said Chapter 63, specifically §63-3, 4 by resolution duly adopted at its March 22, 2023 regular meeting, determined from said Report there is grounds to believe that such abandoned building or structure situate on the Premises is dangerous or unsafe to the public, and as such ordered the repair, removal and/or demolition of same for the reasons stated therein. A copy of the Resolution is attached hereto as Exhibit “B”.

**ACCORDINGLY, PLEASE TAKE NOTICE YOU ARE HEREBY ORDER TO
PLACE THE PREMISES IN SAFE CONDITION BY REPAIR OR BY DEMOLITION
AND REMOVAL OR OTHERWISE, ALL OF WHICH MUST BE COMMENCED
WITHIN THIRTY (30) DAYS OF THE SERVICE UPON YOU OF THIS NOTICE AND
BE COMPLETED WITHIN SIXTY (60) DAYS THEREAFTER, UNLESS SUCH TIME
SHALL BE EXTENDED BY THE TOWN BOARD OR ORDER OF A COURT OF**

COMPETENT JURISDICTION.

PLEASE TAKE FURTHER NOTICE if you fail to comply with the provisions of this Notice and Order, that the Town of Manlius will conduct such public hearing on the 26th of April, 2023 at 6:35 p.m. at 301 Brooklea Drive, Manlius, New York 13066, in relation to such unsafe building or structure, and that you are hereby required to appear before the Town Board on the date, and at the time and place set forth in this Notice to show cause why the building or structure reported to be unsafe should not be repaired, demolished and removed or otherwise dealt with pursuant to Chapter 63 of the Town Code.

PLEASE TAKE FURTHER NOTICE that in the event neither you nor any person having an interest appears at the hearing, or is unsuccessful in proving the building or structure is not unsafe and/or fails to comply with any Order of the Town Board, the Town Board shall have the right to order such building or structure to be vacated and made safe and secure by the demolition and removal of such structure or by such other measures which may be reasonably necessary, and you as the owner shall be liable to the Town for all costs and expenses so incurred by the Town, including in connection with this proceeding, and the Town may assess all costs and expenses incurred by the Town in connection with such repair or removal against the real property on which the structure is located and to institute a special proceeding to collect the costs of demolition, including legal expenses, and the Town may otherwise proceed all in accordance with the provisions of Chapter 63 of the Code of the Town of Manlius.

Any resident of the Town of Manlius is entitled to be heard at the hearing.

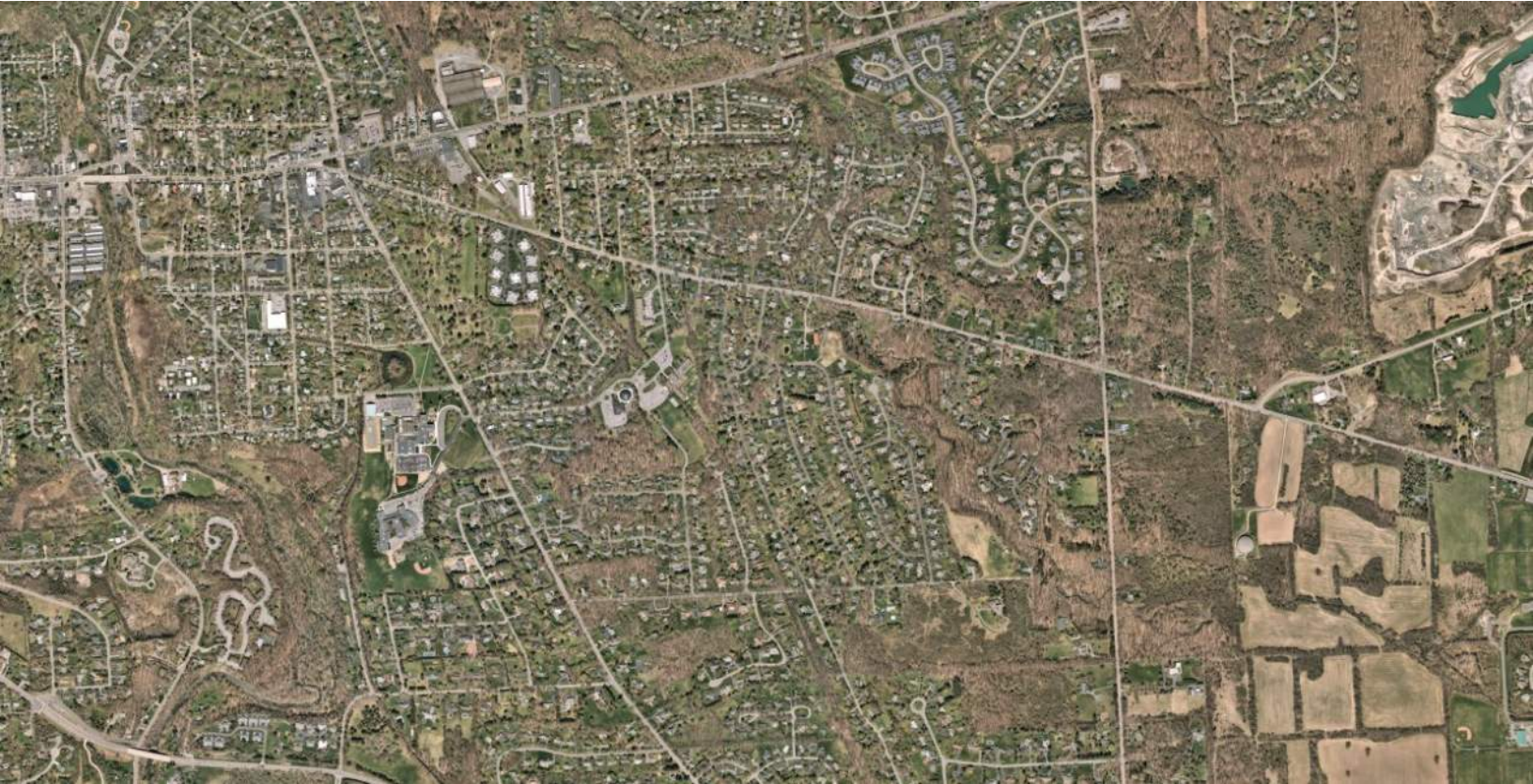
BY ORDER OF THE TOWN BOARD OF THE
TOWN OF MANLIUS.

Dated: March 22, 2023

Allison A. Weber, Town Clerk
Town of Manlius

MUIRFIELD DRIVE DRAINAGE IMPROVEMENTS ASSESSMENT

Town of Manlius, New York



Prepared For:



Town of Manlius, NY
301 Brooklea Drive
Fayetteville, NY 13066

Prepared By:



Engineering and
Land Surveying, P.C.

1533 Crescent Road, Clifton Park, NY 12065

DRAFT – March 16, 2023

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Appendix B:	State and Federal Aquifer Map(s)
Appendix C:	State and Federal Jurisdictional Wetland Map(s)
Appendix D:	Floodplain Map
Appendix E:	Rainfall Data
Appendix F:	Watershed Map
Appendix G:	HydroCad Report(s)
Appendix H:	Concept Plan
Appendix I:	Cost Estimates
Appendix J:	Statewide Assessment of Karst Aquifers in New York

1.0 PROJECT BACKGROUND AND STUDY GOALS

The Muirfield Retention System is located at the northern end of Muirfield Drive within the Town of Manlius. It was reportedly constructed concurrently with the Muirfield Subdivision in 1982. The system includes a graded above grade depression and underground storage vault. The vault is reportedly constructed of gabion baskets walls, segmented concrete plank covers and an open bottom that lies on rock. The overall system relies upon infiltration to manage stormwater runoff with the vault placed upon rock that is reportedly karst geology.

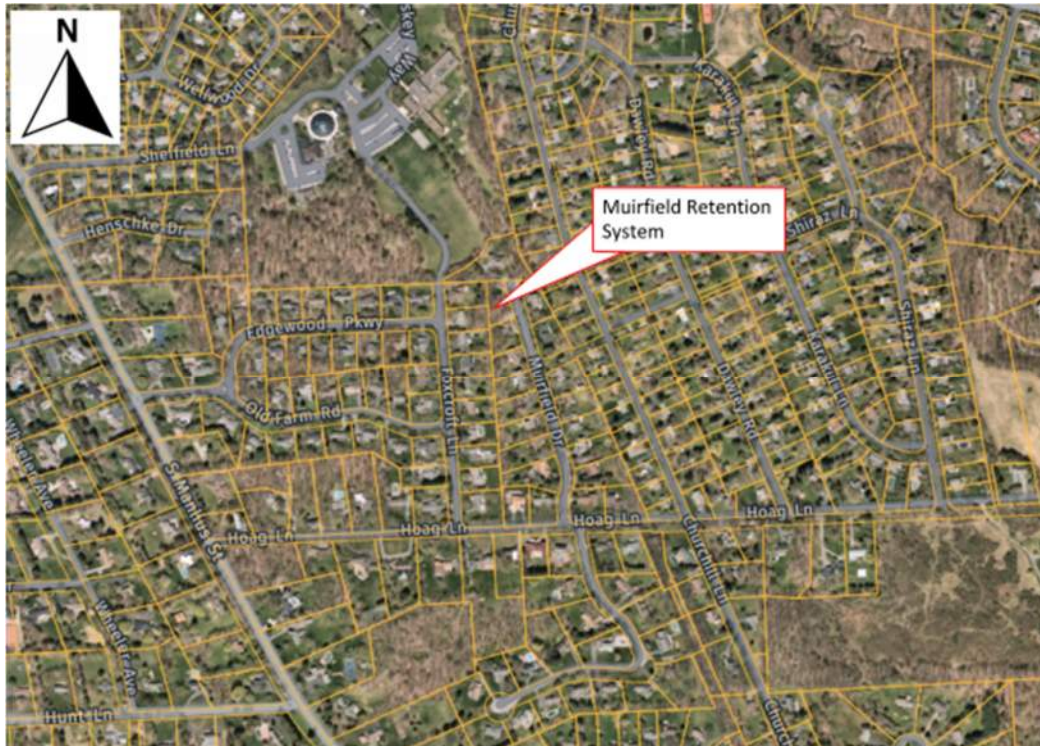


Figure 1-1
Project Location

The retention system services an overall watershed that is approximately 56.77 acres in size. Properties located along Muirfield Drive are located within the Muirfield Drive Drainage District with all other properties within the watershed outside a Town drainage district.

The last time the Town performed maintenance and repair on the retention system was in 2013 which reportedly included addressing deterioration in the concrete plank covers, reconstruction of walls and removal of silt from the bottom of the vault. The Town has reported no additional maintenance occurring since 2013.

The Manlius Town Board authorized the completed of a drainage study that was performed by Miller Engineering in 2020. The purpose of the Miller Drainage Study was to determine drainage problems or concerns within the watershed which included the Muirfield Retention System, evaluate the capacity of existing stormwater facilities, develop calculations for projected stormwater runoff flows for a variety of rainfall events and provide recommendations for improvements within the watershed. The Miller Drainage Study recommended numerous drainage improvements that included the following:

- Increasing the storage capacity of the Muirfield Retention System.
- Replacement of the existing storm sewer along Muirfield Drive to meet the 2-year design storm with all pipes being perforated to promote infiltration,
- Replacement of all storm pipes that are less than 12-inch diameter to a minimum of 12-inch diameter with all new pipes to be perforated to promote infiltration,
- Assess the feasibility of improving the designated overland flood routing within a reported existing drainage easement to the rear of lots on the east side of Muirfield Drive.
- Clean all catch basins and Muirfield Drive Retention system annually.
- Installation of an underground infiltration system on the paper street along Muirfield Drive

The Miller Drainage Study indicated that the above improvements would solve potential future flooding issues throughout the Muirfield Drive Retention Area Watershed. The budgetary estimate for the above work was \$400,000 in 2020 dollars. The Town did not advance any of the noted improvements outlined in the Miller Drainage Study.

Since the completion of the Miller Drainage Study, the Town was planning to initiate a clean out of the concrete vault within the Muirfield Retention System in 2022. The Town requested MJ to visually assess the concrete vault to determine whether it would be feasible to perform the planned cleaning. Based upon limited visual observations conducted in July of 2022, MJ believed removal of the concrete plank covers could result in the covers breaking as they were in an observed progressed state of deterioration. There were no lifting hooks and therefore, the planks would need to be lifted from one end or the other using an excavator. This method of removing the planks had a potential of damaging the covers. Further, there appeared evidence of advanced failure of a portion of the gabion basket walls due to observed settlement of the covers at the southern end of the vault. Based upon these limited observations, MJ did not believe maintenance could be performed on the vault without causing substantial damage to the plank covers or walls.

To address the noted deterioration of the vault and to be capable of performing ongoing maintenance of the system, the Town is assessing the potential phases rehabilitation of the Muirfield Retention System. The initial phase of work would be limited to replace or enlarge the existing concrete vault and reconfigure the inlet to the open basin such that it discharges to the ground surface and into a forebay. An alternate assessment of enlarging the graded basin and providing a dedicated outlet was also considered. This report presents the analysis completed that assesses the rehabilitation options summarized above.

2.0 STUDY AREA CHARACTERISTICS

2.1 WATERSHED AREA AND BOUNDARIES

Land use and Topography: Land use within the watershed is primarily residential. It is moderately to steeply sloped with areas ranging from 0% inclined to 35% inclined. There is a high point located on Hoag Lane to the southeast of the watershed and a low point to the northwest at the Muirfield Drive retention system. The watershed is located within an area where karst is expected to be present; karst geology is formed from the dissolution of soluble rock or rock containing minerals that are easily dissolved which forms highly permeable bedrock. Karst landscape is most notably characterized by sinkholes, caves, springs, and underground drainage systems. In areas where karst is present, loss of surface runoff into bedrock underlain by limestone geologic formations may occur; such occurrences are referred to as karst loss. Refer to Appendix K for a Statewide Assessment of Karst Aquifers in New York performed by the U.S. Department of the Interior and the U.S. Geological Survey (USGS) in cooperation with the New York State Department of Environmental Conservation (NYSDEC) in 2020.

Soils and Groundwater: Review of the National Resources Conservation Service (NRCS) Soil Survey indicates that the watershed is predominately comprised of Benson silt loam with a hydrologic rating of D, Cazenovia silt loam with a hydrologic rating of C, and Wassaic silt loam with a hydrologic rating of C; Refer to Appendix A. The Soil Conservation Service defines hydrologic soil groups C and D as follows:

Type C Soils: Soils having a slow infiltration rate when thoroughly wet. This hydrologic soil group consists of soils having a layer that impedes the downward movement of water and/or soils of moderately fine texture to fine texture. These soils have a slow rate of water transmission.

Type D Soils: Soils having a very slow infiltration rate, and high runoff potential, when thoroughly wet. This hydrologic soil group consists of clays that have a high shrink-swell potential, soils that have a high-water table, soils that have a claypan or clay layer at or near the surface, and/or soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

Receiving Water Bodies: Runoff within the watershed converges at the Muirfield Drive retention system; stormwater infiltrates through karst which ultimately reaches Limestone Creek. Limestone Creek is classified as a Class C(T) River by NYSDEC. Class C waters support fisheries and are suitable for non-contact activities; "(T)" indicates that Limestone Creek may support the trout population. Class C(T) rivers can be referred to as "protected streams" and are subject to the stream protection provisions of the Protection of Waters regulations.

Wetlands

State Jurisdictional Wetlands: The NYSDEC Environmental Resources Mapper (ERM) indicates that State Regulated Freshwater Wetlands and their buffer zones are not located within or adjacent to the watershed. Refer to Appendix C.

Federal Jurisdictional Wetlands: The online Wetlands Mapper provided by the U.S. Department of Interior, Fish, and Wildlife Service (USFWS) indicates that federal jurisdictional wetlands and their 100-foot buffer zones are not located within or adjacent to the watershed. Refer to Appendix C.

Flood Plains: Review of the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Panel 36067C0263F, dated November 4, 2016, shows that the watershed is not located within a floodplain. Refer to Appendix D.

2.2 HYDRAULIC AND HYDROLOGIC MODELING

This study presents the pre-development and post-development features and conditions associated with the rate of surface water runoff within the watershed. For both cases, the drainage patterns, soil types, and ground cover types are considered.

A hydrologic and hydraulic analysis of the pre-development and post-development conditions was performed using the Natural Resources Conservation Service Technical Release 20 (TR-20) and Technical Release 55 (TR-55) methodologies. HydroCAD, developed by HydroCAD Software Solutions LLC of Tamworth, New Hampshire, is a Computer-Aided-Design (CAD) program for analyzing the hydrologic and hydraulic characteristics of a given watershed and its associated stormwater management facilities. HydroCAD uses the TR-20 algorithms and TR-55 methods to create and route runoff hydrographs.

HydroCAD has the capability of computing hydrographs (which represent discharge rates characteristic of specified watershed conditions, precipitation, and geologic factors), combining hydrographs, and routing flows through pipes, streams and ponds. HydroCAD can also calculate the center of mass detention time for various hydraulic features. Documentation for HydroCAD can be found on their website: <http://www.hydrocad.net/>. For this analysis, the watershed was broken down into a network consisting of two (2) types of components as described below:

- Sub-catchment: A relatively homogeneous area of land, which produces a volume and rate of runoff unique to that area. Sub-catchments are represented by hexagons on the watershed routing diagrams.
- Pond: Natural or man-made impoundment, which temporarily stores stormwater runoff and empties it in a manner determined by its geometry and the hydraulic structure located at its outlets. Catch basins and manholes are also modeled as ponds, but do not have associated storage volumes. Ponds are represented by triangles on the watershed routing diagrams.

The analysis of hydrologic and hydraulic conditions of the pre-development and post-development of the watershed was performed by dividing it into relatively homogeneous sub-catchments. The separation of the area into sub-catchments was dictated by watershed conditions, methods of collection, conveyance, points of discharge and topography. Watershed characteristics for each sub-catchment were then assessed from USGS 7.5-minute topographic maps, aerial photographs, a topographical survey, soil surveys, site investigations, and land use maps. Proposed stormwater management facilities were designed and evaluated in accordance with applicable State and local regulatory requirements. The hydrologic and hydraulic analysis considered the SCS Type II 24-hour storm events for the 1, 2, 10, 100, and 90% storm.

Rainfall data utilized in modeling and analysis was obtained from the Northeast Regional Climate Center's (NRCC) Extreme Precipitation in New York and New England interactive web tool for extreme precipitation analysis (precip.eas.cornell.edu). Rainfall data for various 24-hour storm events are presented below in Table 2-1 and in Appendix E.

Table 2-1 Extreme Precipitation Table	
Storm Event	Depth (inches)
1 Year, 24 Hour	2.05
10 Year, 24 Hour	3.44
100 Year, 24 Hour	5.80
90%	1.00

These values were used to evaluate the pre-development and post-development stormwater runoff characteristics.

3.0 EXISTING WATERSHED ANALYSIS

3.1 DESCRIPTION OF FACILITIES AND OPERATIONAL PERFORMANCE

The watershed consists of residential housing, paved roadways, driveways, grassed areas, and wooded areas. Stormwater runoff within the watershed is currently conveyed through a series of closed drainage infrastructure, swales, and along roadways. Runoff converges at the Muirfield Retention System where it infiltrates into the ground with any discharge from the retention system being routed overland.

There are enclosed drainage systems located along several of the roadways within the watershed with sizes ranging from 6-inch diameter to 48-inch diameter. The location and size of the existing piping network is based upon record information and has not been field verified. The Muirfield Retention System includes the underground vault with a reported capacity of 12,000 c.f. and above grade open basin with a reported capacity of 8,900 c.f. This system relies upon infiltration through karst geology, however field testing to establish in-situ infiltration rates have not been performed. Refer to Figure 3-1 for the general arrangement of the Muirfield Retention System.

The Muirfield Retention System previously had a designated overflow with runoff being directed overland to the northeast and along the former railroad to the Village of Fayetteville. This overflow was filled to install a turnaround Muirfield Drive. Under current operations, runoff would have to overtop the embankments where it would drain northwest towards the Village of Fayetteville.



Figure 3-1
Existing Site Features

Discussions with the Town indicate that depth of runoff within the Muirfield Retention System rarely extends beyond the property boundaries of the retention system and no buildings have been adversely impacted by rain events because of discharges from the retention system. The reported localized drainage problems as summarized from the Miller Drainage Study are generally attributed to undersized storm sewer pipes at the intersections of Muirfield Drive and Hoag Lane. The Miller Drainage Study does identify the potential for flooding of basements of specific homes should any of the stormwater infrastructure become compromised or if precipitation events exceed more common rainfall intensities.

3.2 HYDROLOGIC AND HYDRAULIC ANALYSIS

To assess the potential of expanding the capacity of the retention system, it is necessary to develop a hydraulic and hydrologic model of the existing watershed and stormwater systems. Based on existing stormwater infrastructure and topography, the Muirfield Drive retention system watershed can be divided into 4 sub-catchments,

- 3S: which encompasses Hoag Lane E
- 4S: which encompasses Hoag Lane W, Muirfield Drive S, and Thornwood Lane
- 5S: which encompasses Dawley Road, Jackson Road, and Churchill Lane N
- 6S: which encompasses Muirfield Drive

Each sub-catchment contains both pervious and impervious areas and is made up of various types of soil, at various inclines, with hydrologic ratings of C and D. See Table 3-1 for sub-catchment characteristics. Refer to Appendix F for watershed mapping.

Table 3-1 Muirfield Drive Retention System Sub-catchments			
Sub-catchment	Area (Ac)	Runoff Curve No, Cn	Time of Concentration, Tc (Min.)
3S	11.19	80	22.5
4S	12.07	81	24
5S	21.59	79	13.3
6S	11.92	82	29.4

A summary of the pre-development watershed runoff rates at each sub-catchment is presented in Table 3-2.

Table 3-2 Muirfield Drive Retention System Runoff Rates (c.f.s.)					
Sub-catchment	1-Yr Storm	2-Yr Storm	10-Yr Storm	100-Yr Storm	90%
3S	6.34	9.02	18.32	41.80	0.39
4S	7.16	10.03	19.91	44.49	0.57
5S	15.27	21.84	44.83	103.13	0.70
6S	6.71	9.29	18.09	39.72	0.66

The overall pre-development runoff rates for the watershed are presented in Table 3-3.

Table 3-3 Overall Muirfield Drive Retention System Runoff Rates (c.f.s.)					
Design Point	1-Yr Storm	2-Yr Storm	10-Yr Storm	100-Yr Storm	90%
DP-1 (Overall System)	0.00	0.00	42.28	180.28	0.00

Although the watershed is located within an area that is predominantly characterized as having slow infiltration, (i.e. soils with hydrologic ratings of C and D), which attribute to higher runoff coefficients and lower time of concentrations, karst geology is known to underlay the watershed based upon the Statewide Assessment of Karst Aquifers in New York; Refer to Appendix J. To account for the karst geology, a higher infiltration rate has been assumed at the vault and adjacent properties when modeling stormwater runoff. To determine actual infiltration rates and the amount of karst within the watershed, soil testing must be performed. Refer to Appendix G for the results of the computer aided modeling used to analyze the overall watershed under pre-development conditions.

4.0 ALTERNATIVES ASSESSMENT / RECOMMENDED IMPROVEMENTS

4.1 OPTIONS

Four options to rehabilitate and/or expand the Muirfield Retention System have been considered. There is an added benefit to each option which scales with cost to complete the work. It should be noted that none of the improvements presented would provide any benefit to flooding that may occur in the upland watershed areas. To provide benefit to the upland watershed area, implementation of the improvements outlined in the Miller Drainage Study or other rehabilitation options within the upland drainage systems would be necessary.

4.1.1 Option 1: In-kind Replacement of Vault

Option 1 is for the in-kind replacement of the existing vault. The new vault would be constructed of precast or cast-in-place concrete walls that would be laid on the subgrade rock. Pre-cast concrete covers with access ways for maintenance would be provided. Internal steps would be provided for ease of access. These access ways would avoid the need to remove the covers for maintenance, as is the current method.

This option is an in-kind replacement of an existing functioning system and does not warrant a hydraulic analysis.

4.1.2 Option 2: Replace and Enlarge Vault

Option 2 is for the removal of the existing vault and providing one that is approximately 30% larger, increasing the storage volume from 12,000 c.f to 15,600 c.f. .The enlarged vault would include the same components as Option 1.

As illustrated in Table 4-1, implementing Option2 would reduce the outflow from the retention system at the 100-year storm event. This is accomplished by increasing the storage capacity below grade by expanding the size of the vault.

Table 4-1					
Option 2 - Muirfield Drive Retention System Runoff Rates (c.f.s.)					
Development	1-Yr Storm	2-Yr Storm	10-Yr Storm	100-Yr Storm	90%
Pre-Development	0.00	0.00	42.28	180.28	0.00
Post-development	0.00	0.00	39.47	159.41	0.00

By enlarging the vault, there is an 8.1% and 11.6% decrease in outflow from the retention system for the 10-year and 100-year storm events, respectively. Refer to Appendix G for the results of the computer aided modeling used to analyze the overall watershed under post-development conditions for Options 2.

4.1.3 Option 3: Redirect Inflow Pipe and Provide Stilling Basin

Runoff reportedly enters the basin through a culvert that discharges directly to the vault. Option 3 would reconfigure this to have a surface discharge into the open basin. At the realigned end section, a graded depression would be provided. The depression would provide opportunity for sediment to be removed from runoff rather than it being deposited directly to the vault. This arrangement could potentially extend the period between sediment removal in the vault. As part of this option, the vault would be provided with several grated openings to allow runoff to enter through the top and infiltrate into the subgrade.

This option would not substantially change the hydraulics of the system and does not warrant a hydraulic analysis.

4.1.4 Option 4: Expansion of Vault and Open Basin and Provide Outfall

Option 4 would include the expansion of the vault (Option 2), installation of the stilling basin at the reconfigured inlet (Option 3), expansion of the open graded surface basin, and providing a formal emergency outflow. There is space on the lot to expand the open basin further south. This option would excavate and expand the open surface basin to the south. An emergency overflow would be provided that directs flow to the northeast and across Muirfield Drive towards the original outlet that was in place prior to the construction of the turnaround at the end of Muirfield Drive.

As illustrated in Table 4-2, implementing Option 4 would reduce the outflow from the retention system at the 100-year storm event. This is accomplished by increasing the storage capacity both below grade by expanding the size of the vault and above grade by expanding the open detention basin to the south.

Table 4-2					
Option 4 - Muirfield Drive Retention System Runoff Rates (c.f.s.)					
Development	1-Yr Storm	2-Yr Storm	10-Yr Storm	100-Yr Storm	90%
Pre-Development	0.00	0.00	42.28	180.28	0.00
Post-development	0.00	0.00	0.00	101.63	0.00

By enlarging the vault and surface basin and providing a still basin, there is a 100% and 43.6% decrease in outflow from the retention system for the 10-year and 100-year storm events, respectively. Refer to Appendix G for the results of the computer aided modeling used to analyze the overall watershed under post-development conditions for Option 4.

4.2 PROJECT BUDGET

An order of magnitude estimate has been developed which is summarized below with a detailed estimate provided in Appendix J. Please note the project estimate is conceptual in nature and subject to change based on subsequent detailed engineering and design.

Table 4-3 Project Estimate				
Description	Option 1	Option 2	Option 3*	Option 4
Construction Costs	\$81,050	\$135,500	\$29,550	\$187,575
General Conditions (10%)	\$8,105	\$13,550	\$2,955	\$18,758
Overhead & Profit (10%)	\$8,916	\$14,905	\$3,251	\$20,633
Design Contingencies (20%)	\$19,614	\$32,791	\$7,151	\$45,393
Bid Contingency (5%)	\$5,884	\$9,837	\$2,145	\$13,618
Escalation (3.5%)	\$4,325	\$7,230	\$1,577	\$10,009
Design Services (12%)	\$15,347	\$25,658	\$1,632	\$35,518
Total Project Cost	\$143,241	\$239,471	\$48,261	\$331,504

**Option 3 includes redirection of the inflow pipe and installation of a stilling basin only and would need to be selected in conjunction with Option 1 or 2.*

The above estimates are valid for 2023 and are subject to the bidding environment. Advancing the project in later years will be subject to escalation.

4.3 APPLICABLE CODES AND REGULATORY REQUIREMENTS

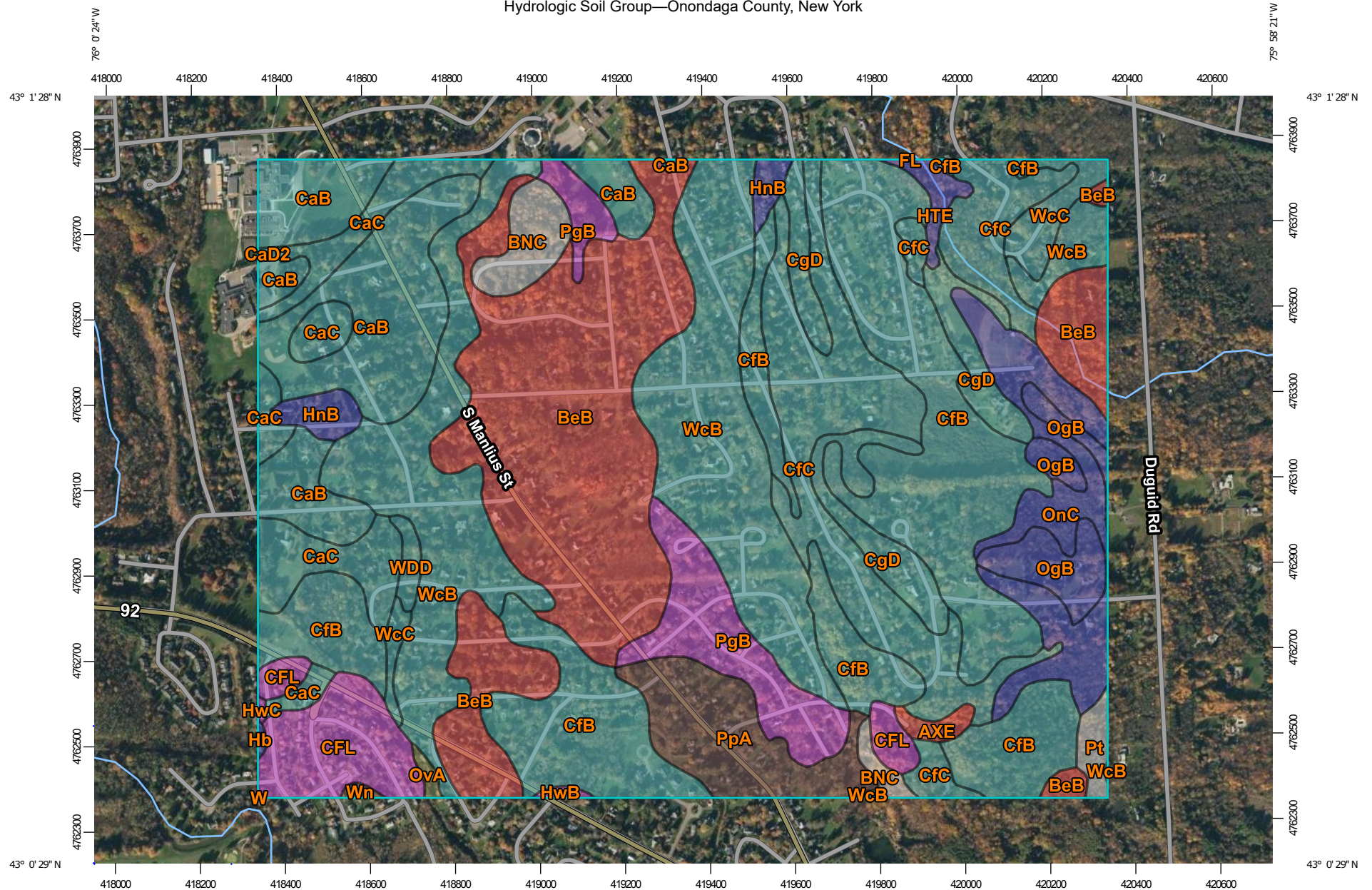
The following codes and regulations would apply to the recommended improvements presented:

- State Environmental Quality Review Act (SEQRA): The project (or action) is to be classified as an Unlisted SEQRA action as the project scope exceeds the thresholds of a Type II defined in Part 617.5. For an Unlisted Action, Parts 1 through 3 of a short environmental assessment must be completed Under ECL Part 617. Coordinated reviews for Unlisted actions are optional.

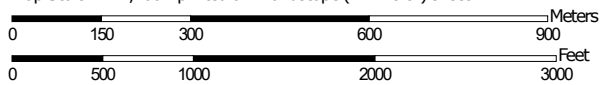
Appendix A

Soil Survey Data Map

Hydrologic Soil Group—Onondaga County, New York



Map Scale: 1:12,700 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

1/27/2023
Page 1 of 5

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

-  A
-  A/D
-  B
-  B/D
-  C
-  C/D
-  D
-  Not rated or not available

Soil Rating Lines

-  A
-  A/D
-  B
-  B/D
-  C
-  C/D
-  D
-  Not rated or not available

Soil Rating Points

-  A
-  A/D
-  B
-  B/D

-  C
-  C/D
-  D
-  Not rated or not available

Water Features

-  Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

-  Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Onondaga County, New York

Survey Area Data: Version 17, Sep 10, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 3, 2021—Nov 7, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
AXE	Aurora-Farmington-Rock outcrop association, steep	D	2.4	0.3%
BeB	Benson silt loam, undulating	D	129.1	17.4%
BNC	Benson-Wassaic-Rock outcrop association, sloping		11.2	1.5%
CaB	Camillus silt loam, 2 to 6 percent slopes	C	65.1	8.8%
CaC	Camillus silt loam, 6 to 12 percent slopes	C	30.6	4.1%
CaD2	Camillus silt loam, 12 to 18 percent slopes eroded	C	0.3	0.0%
CfB	Cazenovia silt loam, 2 to 8 percent slopes	C	140.7	19.0%
CfC	Cazenovia silt loam, 8 to 15 percent slopes	C	69.5	9.4%
CFL	Cut and fill land	A	25.4	3.4%
CgD	Cazenovia soils, 15 to 25 percent slopes	C	25.4	3.4%
FL	Fluvaquents, frequently flooded	A/D	0.0	0.0%
Hb	Hamlin silt loam	B	0.3	0.0%
HnB	Honeoye silt loam, 3 to 8 percent slopes	B	6.6	0.9%
HTE	Honeoye, Lansing, and Ontario soils, 25 to 35 percent slopes	B	3.6	0.5%
HwB	Howard gravelly fine sandy loam, 3 to 8 percent slopes	A	0.7	0.1%
HwC	Howard gravelly fine sandy loam, rolling	A	0.2	0.0%
OgB	Ontario loam, 3 to 8 percent slopes	B	14.4	1.9%
OnC	Ontario gravelly loam, 8 to 15 percent slopes	B	29.6	4.0%
OvA	Ovid silt loam, 0 to 3 percent slopes	C/D	1.0	0.1%
PgB	Palmyra gravelly loam, 3 to 8 percent slopes	A	28.8	3.9%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
PpA	Phelps gravelly loam, 0 to 3 percent slopes	B/D	25.5	3.4%
Pt	Quarries		3.5	0.5%
W	Water		0.0	0.0%
WcB	Wassaic silt loam, 0 to 8 percent slopes	C	116.0	15.6%
WcC	Wassaic silt loam, 8 to 15 percent slopes	C	8.6	1.2%
WDD	Wassaic-Benson silt loams, moderately steep	C	2.4	0.3%
Wn	Wayland soils complex, 0 to 3 percent slopes, frequently flooded	B/D	0.6	0.1%
Totals for Area of Interest			741.6	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

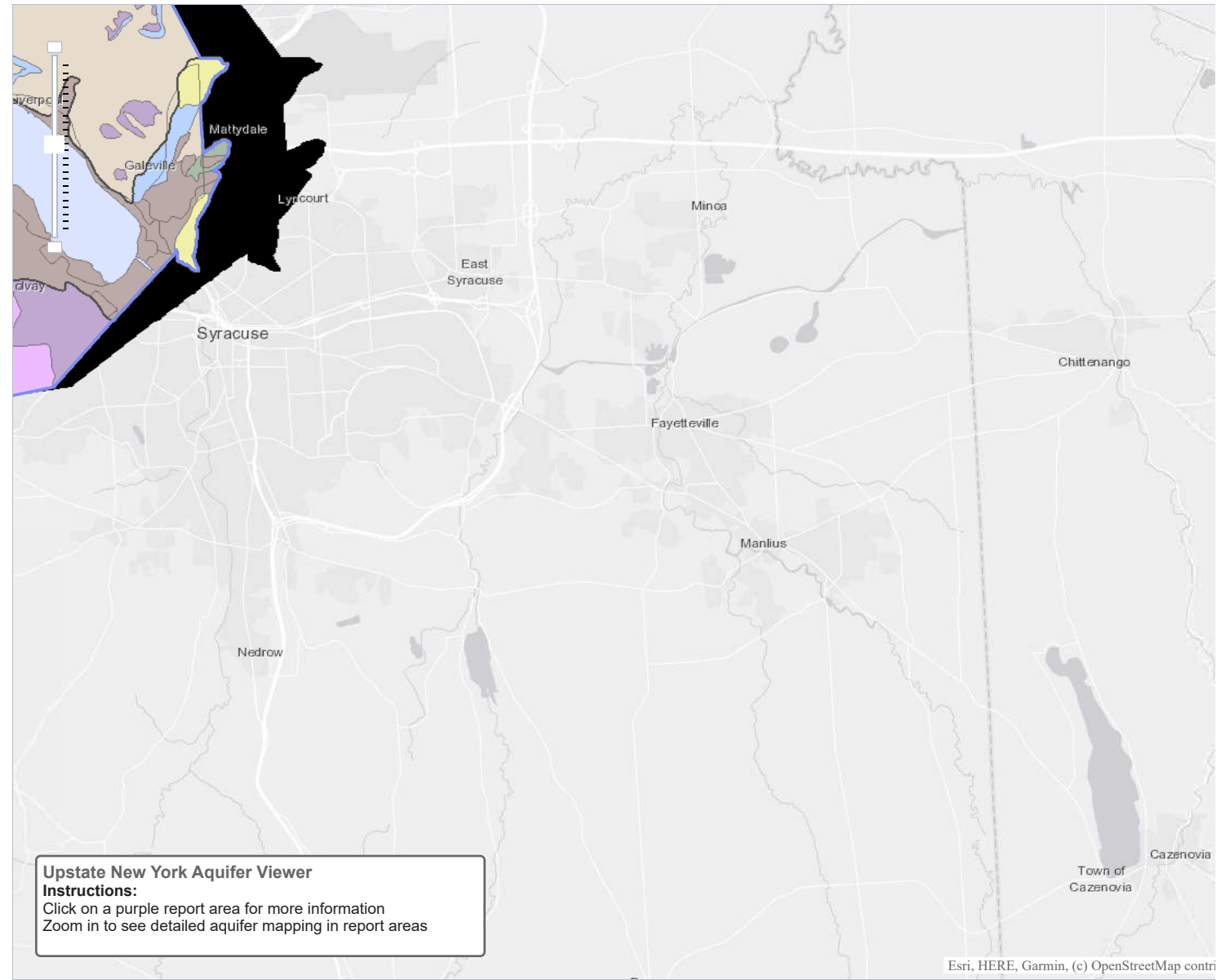
Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Appendix B

State and Federal Aquifer Map(s)



Esri, HERE, Garmin, (c) OpenStreetMap contri

Legend

Stratified-drift aquifers mapped at 1:24,000

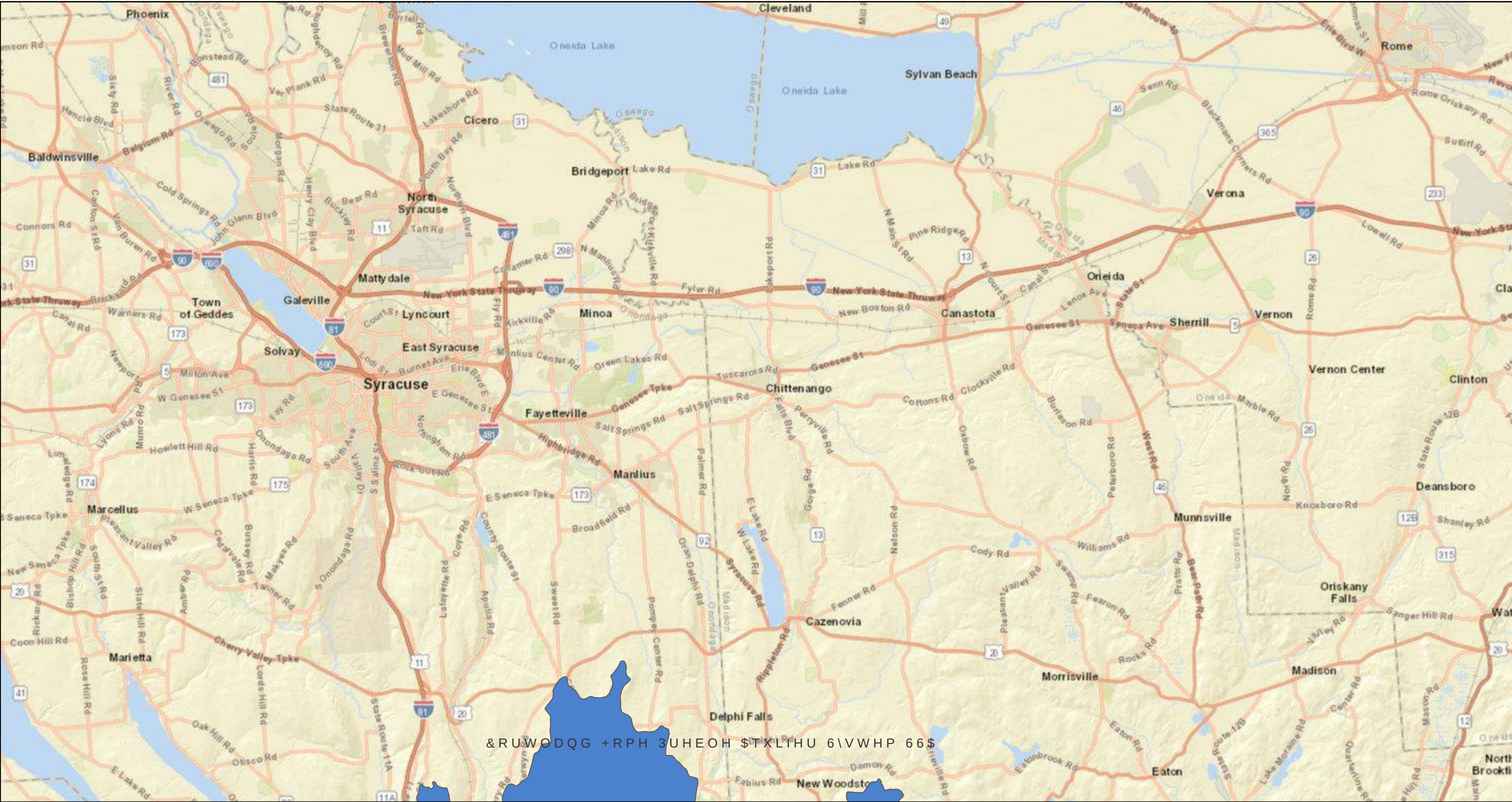
Stratified-drift aquifer boundary lines

- Closed Aquifer Boundary
- New Aquifer Boundary
- New Inferred Aquifer Boundary

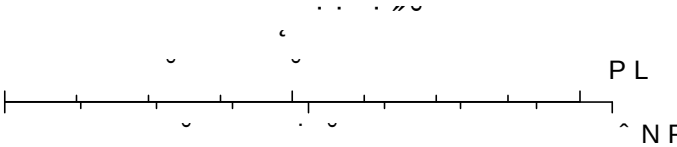
Surficial Geology

- alluvial fan
- alluvium
- artificial fill
- beach
- bedrock outcrop
- colluvium
- fluvial
- kame
- kame moraine
- lacustrine sand
- lacustrine silt
- outwash
- peat and muck
- sand
- till
- till moraine
- unknown
- urban land
- water

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Appendix C

State and Federal Jurisdictional Wetland Map(s)

NYSDEC REGULATED WETLANDS



January 31, 2023

★ Unique Geological Features

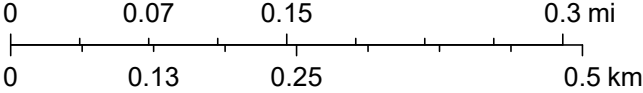
— Waterbody Classifications for Rivers/Streams

■ Waterbody Classifications for Lakes

■ State Regulated Freshwater Wetlands
(Outside of the Adirondack Park)

■ State Regulated Wetland Checkzone

1:9,028



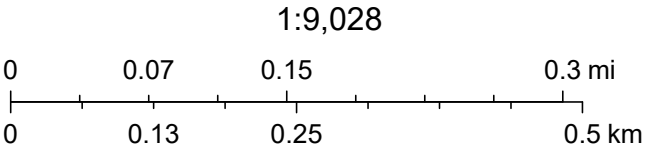
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

NATIONAL WETLAND INVENTORY



January 31, 2023

- | | |
|-----------------------------------|-----------------|
| Estuarine and Marine Deepwater | Freshwater Pond |
| Estuarine and Marine Wetland | Lake |
| Freshwater Emergent Wetland | Other |
| Freshwater Forested/Shrub Wetland | Riverine |

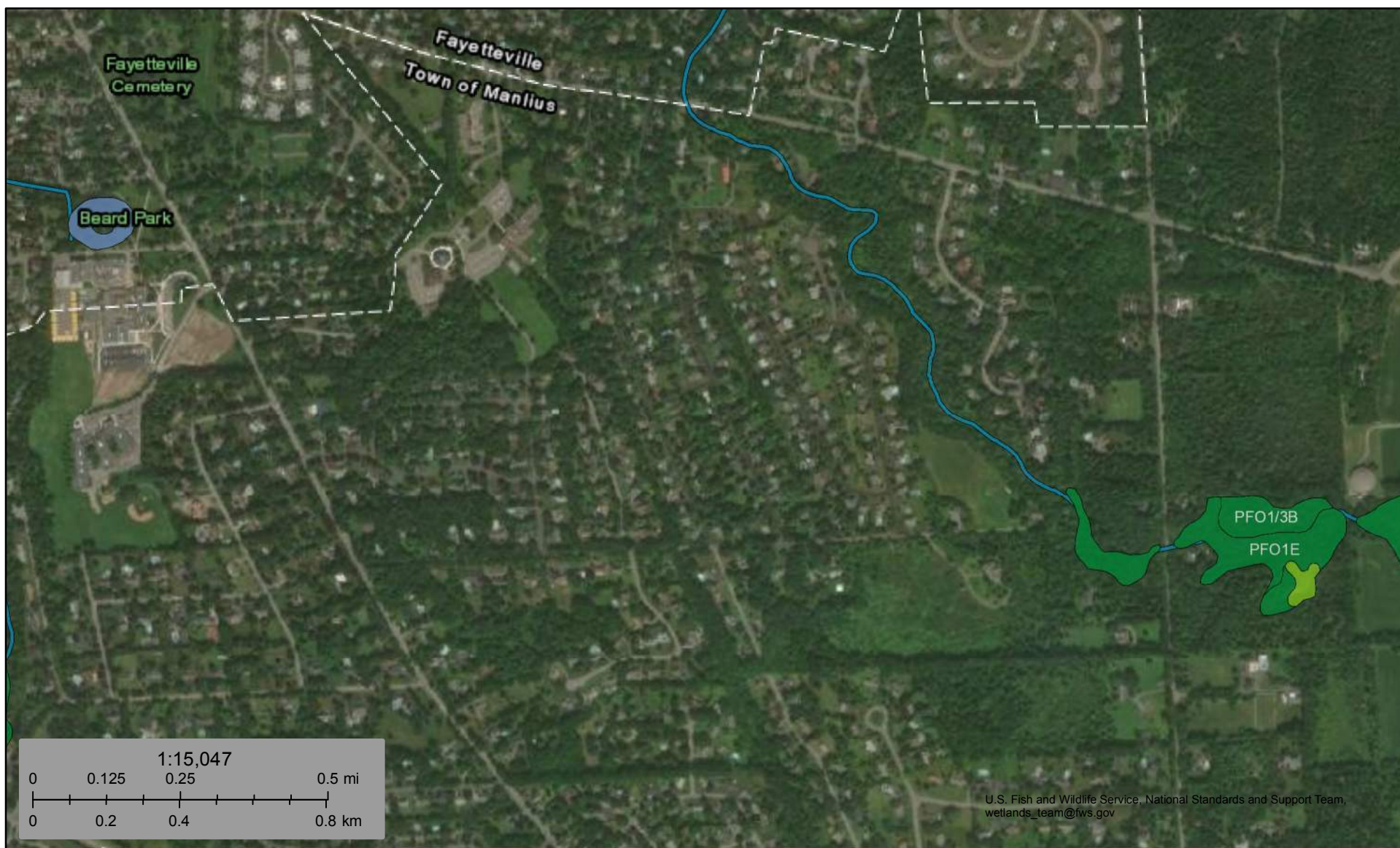


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



U.S. Fish and Wildlife Service

National Wetlands Inventory



U.S. Fish and Wildlife Service, National Standards and Support Team,
wetlands_team@fws.gov

February 1, 2023

Wetlands

	Estuarine and Marine Deepwater		Freshwater Emergent Wetland		Lake
	Estuarine and Marine Wetland		Freshwater Forested/Shrub Wetland		Other
			Freshwater Pond		Riverine

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.

Appendix D

Floodplain Map

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~~(b) (6), (b) (7)(C), (b) (7)(D)~~

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- 33.3%

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HOFQWVGRQW DSSHV, EXHBSLGLHVI IORFGFOHBEHV
OHFG VDDHEDV, BSUHWLFGDWH FQW, WLGQWLILHV
)SSQHO QEHU DQGS)SHIFWLYHGDWH DSLBHVIRU
XQSSGDQGXQGHUQJGDJHV FQQRW EXHFGIRU
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Town Of Manlius
360584

AREA OF MINIMAL FLOOD HAZARD
Zone X

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eff. 11/4/2016

■ HW

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Appendix F

Rainfall Data

Extreme Precipitation Tables

Northeast Regional Climate Center

Data represents point estimates calculated from partial duration series. All precipitation amounts are displayed in inches.

Smoothing	Yes
State	New York
Location	
Longitude	75.990 degrees West
Latitude	43.020 degrees North
Elevation	0 feet
Date/Time	Fri, 27 Jan 2023 11:51:14 -0500

Extreme Precipitation Estimates

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.28	0.43	0.53	0.69	0.86	1.06	1yr	0.75	0.96	1.21	1.45	1.73	2.05	2.30	1yr	1.82	2.21	2.64	3.18	3.69	1yr
2yr	0.33	0.50	0.63	0.82	1.04	1.28	2yr	0.89	1.16	1.44	1.73	2.04	2.39	2.69	2yr	2.12	2.59	3.03	3.65	4.21	2yr
5yr	0.39	0.61	0.76	1.02	1.30	1.61	5yr	1.12	1.43	1.83	2.17	2.54	2.94	3.32	5yr	2.60	3.19	3.72	4.39	5.01	5yr
10yr	0.44	0.69	0.88	1.19	1.55	1.93	10yr	1.34	1.69	2.18	2.59	3.00	3.44	3.89	10yr	3.04	3.74	4.34	5.05	5.71	10yr
25yr	0.53	0.84	1.07	1.48	1.96	2.44	25yr	1.69	2.10	2.76	3.25	3.74	4.23	4.81	25yr	3.74	4.62	5.34	6.08	6.79	25yr
50yr	0.60	0.96	1.24	1.73	2.34	2.93	50yr	2.02	2.48	3.31	3.87	4.42	4.95	5.65	50yr	4.38	5.43	6.24	7.00	7.75	50yr
100yr	0.70	1.12	1.45	2.05	2.79	3.50	100yr	2.41	2.93	3.95	4.60	5.21	5.80	6.64	100yr	5.13	6.38	7.30	8.06	8.84	100yr
200yr	0.80	1.30	1.69	2.42	3.34	4.19	200yr	2.88	3.46	4.73	5.47	6.16	6.79	7.80	200yr	6.01	7.50	8.55	9.29	10.09	200yr
500yr	0.97	1.60	2.08	3.02	4.23	5.31	500yr	3.65	4.34	5.98	6.87	7.66	8.37	9.67	500yr	7.41	9.30	10.53	11.21	12.02	500yr

Lower Confidence Limits

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.25	0.38	0.46	0.62	0.76	0.87	1yr	0.66	0.85	0.92	1.10	1.40	1.65	2.02	1yr	1.46	1.94	2.38	2.78	3.34	1yr
2yr	0.32	0.49	0.61	0.82	1.01	1.14	2yr	0.87	1.11	1.26	1.56	1.90	2.33	2.61	2yr	2.06	2.51	2.94	3.55	4.11	2yr
5yr	0.35	0.55	0.68	0.93	1.19	1.34	5yr	1.02	1.31	1.48	1.86	2.27	2.73	3.09	5yr	2.41	2.97	3.48	4.11	4.71	5yr
10yr	0.39	0.60	0.74	1.04	1.34	1.49	10yr	1.16	1.46	1.67	2.07	2.54	3.08	3.48	10yr	2.73	3.35	3.93	4.56	5.22	10yr
25yr	0.44	0.66	0.83	1.18	1.55	1.71	25yr	1.34	1.68	1.96	2.40	2.92	3.58	4.06	25yr	3.16	3.91	4.61	5.24	5.97	25yr
50yr	0.46	0.71	0.88	1.27	1.70	1.89	50yr	1.47	1.85	2.19	2.65	3.24	4.00	4.54	50yr	3.54	4.36	5.20	5.82	6.59	50yr
100yr	0.50	0.76	0.95	1.38	1.89	2.33	100yr	1.63	2.27	2.46	2.94	3.59	4.44	5.06	100yr	3.93	4.87	5.86	6.43	7.29	100yr
200yr	0.55	0.82	1.04	1.50	2.10	2.65	200yr	1.81	2.59	2.74	3.24	3.97	4.95	5.66	200yr	4.38	5.44	6.59	7.11	8.05	200yr
500yr	0.86	1.29	1.66	2.41	3.42	3.17	500yr	2.95	3.10	3.15	3.69	4.53	5.68	6.52	500yr	5.03	6.27	7.69	8.08	9.18	500yr

Upper Confidence Limits

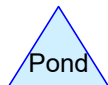
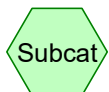
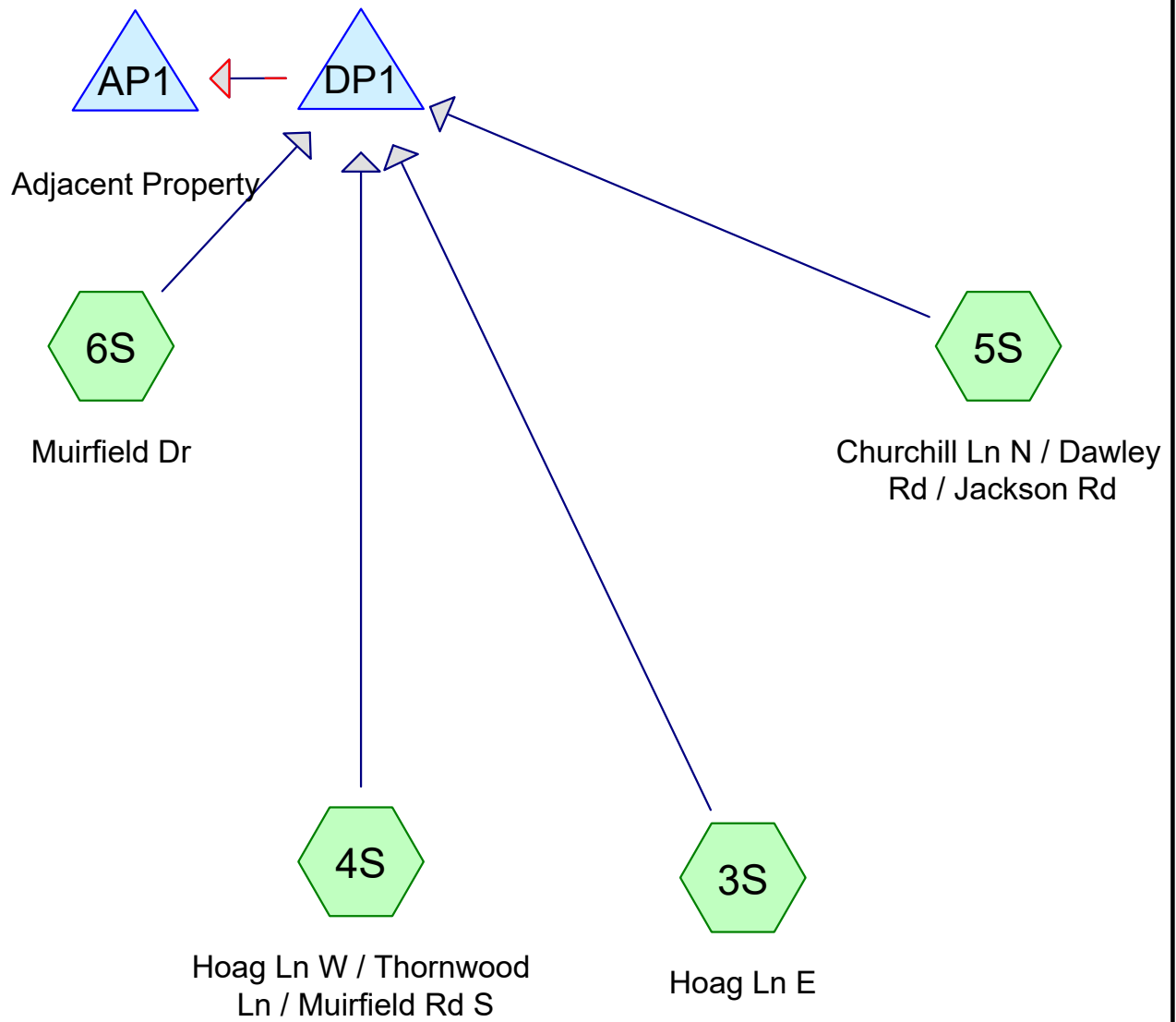
	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.30	0.46	0.56	0.76	0.93	1.07	1yr	0.81	1.05	1.20	1.55	1.84	2.22	2.61	1yr	1.97	2.51	2.84	3.40	3.98	1yr
2yr	0.35	0.54	0.66	0.89	1.10	1.23	2yr	0.95	1.21	1.37	1.72	2.07	2.50	2.80	2yr	2.21	2.69	3.13	3.76	4.34	2yr
5yr	0.42	0.65	0.81	1.11	1.42	1.61	5yr	1.22	1.57	1.76	2.18	2.62	3.12	3.53	5yr	2.76	3.40	3.98	4.67	5.32	5yr
10yr	0.50	0.76	0.95	1.32	1.71	1.99	10yr	1.47	1.95	2.16	2.67	3.21	3.83	4.25	10yr	3.39	4.09	4.79	5.52	6.23	10yr
25yr	0.62	0.95	1.18	1.69	2.22	2.65	25yr	1.92	2.60	2.83	3.52	4.19	4.73	5.46	25yr	4.19	5.25	6.15	6.89	7.68	25yr
50yr	0.74	1.13	1.40	2.02	2.72	3.31	50yr	2.35	3.23	3.48	4.31	5.11	5.68	6.60	50yr	5.03	6.35	7.45	8.17	8.99	50yr
100yr	0.89	1.34	1.68	2.43	3.34	3.96	100yr	2.88	3.87	4.29	5.32	6.27	6.83	8.00	100yr	6.04	7.69	9.02	9.69	10.55	100yr
200yr	1.06	1.60	2.03	2.94	4.10	4.89	200yr	3.54	4.78	5.29	6.57	7.68	8.20	9.69	200yr	7.25	9.32	10.94	11.52	12.38	200yr
500yr	1.26	1.87	2.41	3.50	4.98	6.47	500yr	4.30	6.32	6.99	8.70	10.07	10.47	12.53	500yr	9.26	12.05	14.15	14.46	15.32	500yr

Appendix G

Watershed Map

Appendix H

HydroCad Report(s)



Routing Diagram for MJ1456.07_MODEL_PRE

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
38.885	74	>75% Grass cover, Good, HSG C (3S, 4S, 5S, 6S)
3.904	80	>75% Grass cover, Good, HSG D (6S)
12.210	98	Paved parking/Roofs, HSG C (3S, 4S, 5S, 6S)
1.770	98	Paved parking/Roofs, HSG D (6S)
56.769	80	TOTAL AREA

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Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
51.096	HSG C	3S, 4S, 5S, 6S
5.674	HSG D	6S
0.000	Other	
56.769		TOTAL AREA

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Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	38.885	3.904	0.000	42.789	>75% Grass cover, Good	3S, 4S, 5S, 6S
0.000	0.000	12.210	1.770	0.000	13.980	Paved parking/Roofs	3S, 4S, 5S, 6S
0.000	0.000	51.096	5.674	0.000	56.769	TOTAL AREA	

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Muirfield Drive Drainage Study Pre-Development Watershed

Type II 24-hr 1 YR Rainfall=2.05"

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Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN

Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=0.59"
Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=6.34 cfs 0.553 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=0.64"
Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=7.16 cfs 0.640 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=0.55"
Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=15.27 cfs 0.993 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=0.68"
Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=6.71 cfs 0.677 af

Pond AP1: Adjacent Property Peak Elev=593.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
Discarded=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond DP1: Peak Elev=594.04' Storage=12,727 cf Inflow=30.89 cfs 2.864 af
Discarded=23.32 cfs 2.864 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=23.32 cfs 2.864 af

Total Runoff Area = 56.769 ac Runoff Volume = 2.864 af Average Runoff Depth = 0.61"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 1 YR Rainfall=2.05"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 6.34 cfs @ 12.17 hrs, Volume= 0.553 af, Depth= 0.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1 YR Rainfall=2.05"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1
					Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2
					Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3
					Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4
					Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 7.16 cfs @ 12.19 hrs, Volume= 0.640 af, Depth= 0.64"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1 YR Rainfall=2.05"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 15.27 cfs @ 12.07 hrs, Volume= 0.993 af, Depth= 0.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1 YR Rainfall=2.05"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 6.71 cfs @ 12.25 hrs, Volume= 0.677 af, Depth= 0.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1 YR Rainfall=2.05"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.00" for 1 YR event
 Inflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 593.00' @ 0.01 hrs Surf.Area= 312 sf Storage= 0 cf

Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)

Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

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Type II 24-hr 1 YR Rainfall=2.05"

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Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑**1=Exfiltration** (Passes 0.00 cfs of 2.17 cfs potential flow)**Secondary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑**2=Special & User-Defined** (Controls 0.00 cfs)**Summary for Pond DP1:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.61" for 1 YR event
 Inflow = 30.89 cfs @ 12.12 hrs, Volume= 2.864 af
 Outflow = 23.32 cfs @ 12.29 hrs, Volume= 2.864 af, Atten= 25%, Lag= 10.0 min
 Discarded = 23.32 cfs @ 12.29 hrs, Volume= 2.864 af
 Primary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 594.04' @ 12.29 hrs Surf.Area= 3,277 sf Storage= 12,727 cf

Flood Elev= 596.00' Surf.Area= 7,601 sf Storage= 23,177 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 4.0 min (882.4 - 878.4)

Volume	Invert	Avail.Storage	Storage Description
#1	588.00'	23,177 cf	Vault/Basin (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,100	200.0	0	0	2,100
594.00	2,100	200.0	12,600	12,600	3,300
594.01	3,221	209.0	26	12,626	3,593
595.00	5,259	320.0	4,157	16,783	8,273
596.00	7,601	340.0	6,394	23,177	9,374

Device	Routing	Invert	Outlet Devices
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 1.00 16.00 17.00 Height (feet) 0.50 0.00 0.00 0.50
#3	Secondary	595.50'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 1 YR Rainfall=2.05"

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Discarded OutFlow Max=23.31 cfs @ 12.29 hrs HW=594.04' (Free Discharge)

↑**1=Exfiltration** (Controls 23.31 cfs)

Primary OutFlow Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Controls 0.00 cfs)

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Muirfield Drive Drainage Study Pre-Development Watershed

Type II 24-hr 2 YR Rainfall=2.39"

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Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN

Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=0.81"
Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=9.02 cfs 0.759 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=0.86"
Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=10.03 cfs 0.870 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=0.76"
Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=21.84 cfs 1.375 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=0.92"
Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=9.29 cfs 0.912 af

Pond AP1: Adjacent Property Peak Elev=593.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
Discarded=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond DP1: Peak Elev=594.94' Storage=16,470 cf Inflow=43.98 cfs 3.916 af
Discarded=36.27 cfs 3.916 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=36.27 cfs 3.916 af

Total Runoff Area = 56.769 ac Runoff Volume = 3.916 af Average Runoff Depth = 0.83"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 2 YR Rainfall=2.39"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 9.02 cfs @ 12.17 hrs, Volume= 0.759 af, Depth= 0.81"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2 YR Rainfall=2.39"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1
					Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2
					Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3
					Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4
					Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 10.03 cfs @ 12.19 hrs, Volume= 0.870 af, Depth= 0.86"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2 YR Rainfall=2.39"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Type II 24-hr 2 YR Rainfall=2.39"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 21.84 cfs @ 12.06 hrs, Volume= 1.375 af, Depth= 0.76"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2 YR Rainfall=2.39"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 9.29 cfs @ 12.25 hrs, Volume= 0.912 af, Depth= 0.92"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2 YR Rainfall=2.39"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.00" for 2 YR event
 Inflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 593.00' @ 0.01 hrs Surf.Area= 312 sf Storage= 0 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

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Type II 24-hr 2 YR Rainfall=2.39"

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Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑ **1=Exfiltration** (Passes 0.00 cfs of 2.17 cfs potential flow)**Secondary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑ **2=Special & User-Defined** (Controls 0.00 cfs)**Summary for Pond DP1:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.83" for 2 YR event
 Inflow = 43.98 cfs @ 12.11 hrs, Volume= 3.916 af
 Outflow = 36.27 cfs @ 12.24 hrs, Volume= 3.916 af, Atten= 18%, Lag= 7.6 min
 Discarded = 36.27 cfs @ 12.24 hrs, Volume= 3.916 af
 Primary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 594.94' @ 12.24 hrs Surf.Area= 5,121 sf Storage= 16,470 cf

Flood Elev= 596.00' Surf.Area= 7,601 sf Storage= 23,177 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 4.2 min (872.7 - 868.5)

Volume	Invert	Avail.Storage	Storage Description		
#1	588.00'	23,177 cf	Vault/Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,100	200.0	0	0	2,100
594.00	2,100	200.0	12,600	12,600	3,300
594.01	3,221	209.0	26	12,626	3,593
595.00	5,259	320.0	4,157	16,783	8,273
596.00	7,601	340.0	6,394	23,177	9,374
Device	Routing	Invert	Outlet Devices		
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'		
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 1.00 16.00 17.00 Height (feet) 0.50 0.00 0.00 0.50		
#3	Secondary	595.50'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000		

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Type II 24-hr 2 YR Rainfall=2.39"

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Discarded OutFlow Max=36.27 cfs @ 12.24 hrs HW=594.94' (Free Discharge)

↑**1=Exfiltration** (Controls 36.27 cfs)

Primary OutFlow Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Controls 0.00 cfs)

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Muirfield Drive Drainage Study Pre-Development Watershed

Type II 24-hr 10 YR Rainfall=3.44"

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Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN

Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E

Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=1.59"
Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=18.32 cfs 1.482 af

Subcatchment4S: Hoag Ln W /

Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=1.66"
Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=19.91 cfs 1.670 af

Subcatchment5S: Churchill Ln N /

Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=1.52"
Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=44.83 cfs 2.733 af

Subcatchment6S: Muirfield Dr

Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=1.73"
Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=18.09 cfs 1.722 af

Pond AP1: Adjacent Property

Peak Elev=593.80' Storage=2,061 cf Inflow=43.15 cfs 0.779 af
Discarded=42.28 cfs 0.779 af Secondary=0.00 cfs 0.000 af Outflow=42.28 cfs 0.779 af

Pond DP1:

Peak Elev=595.58' Storage=20,216 cf Inflow=89.68 cfs 7.607 af
Discarded=46.49 cfs 6.830 af Primary=2.31 cfs 0.037 af Secondary=40.84 cfs 0.742 af Outflow=89.64 cfs 7.609 af

Total Runoff Area = 56.769 ac Runoff Volume = 7.607 af Average Runoff Depth = 1.61"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 10 YR Rainfall=3.44"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 18.32 cfs @ 12.17 hrs, Volume= 1.482 af, Depth= 1.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10 YR Rainfall=3.44"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1
					Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2
					Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3
					Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4
					Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 19.91 cfs @ 12.18 hrs, Volume= 1.670 af, Depth= 1.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10 YR Rainfall=3.44"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 44.83 cfs @ 12.06 hrs, Volume= 2.733 af, Depth= 1.52"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10 YR Rainfall=3.44"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 18.09 cfs @ 12.25 hrs, Volume= 1.722 af, Depth= 1.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10 YR Rainfall=3.44"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.16" for 10 YR event
 Inflow = 43.15 cfs @ 12.11 hrs, Volume= 0.779 af
 Outflow = 42.28 cfs @ 12.13 hrs, Volume= 0.779 af, Atten= 2%, Lag= 1.3 min
 Discarded = 42.28 cfs @ 12.13 hrs, Volume= 0.779 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 593.80' @ 12.13 hrs Surf.Area= 6,076 sf Storage= 2,061 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 0.7 min (730.5 - 729.8)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

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Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=42.25 cfs @ 12.13 hrs HW=593.80' (Free Discharge)↑**1=Exfiltration** (Controls 42.25 cfs)**Secondary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑**2=Special & User-Defined** (Controls 0.00 cfs)**Summary for Pond DP1:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 1.61" for 10 YR event
 Inflow = 89.68 cfs @ 12.10 hrs, Volume= 7.607 af
 Outflow = 89.64 cfs @ 12.11 hrs, Volume= 7.609 af, Atten= 0%, Lag= 0.2 min
 Discarded = 46.49 cfs @ 12.11 hrs, Volume= 6.830 af
 Primary = 2.31 cfs @ 12.11 hrs, Volume= 0.037 af
 Secondary = 40.84 cfs @ 12.11 hrs, Volume= 0.742 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 595.58' @ 12.11 hrs Surf.Area= 6,569 sf Storage= 20,216 cf

Flood Elev= 596.00' Surf.Area= 7,601 sf Storage= 23,177 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 4.0 min (852.8 - 848.9)

Volume	Invert	Avail.Storage	Storage Description		
#1	588.00'	23,177 cf	Vault/Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,100	200.0	0	0	2,100
594.00	2,100	200.0	12,600	12,600	3,300
594.01	3,221	209.0	26	12,626	3,593
595.00	5,259	320.0	4,157	16,783	8,273
596.00	7,601	340.0	6,394	23,177	9,374

Device	Routing	Invert	Outlet Devices
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 1.00 16.00 17.00 Height (feet) 0.50 0.00 0.00 0.50
#3	Secondary	595.50'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 10 YR Rainfall=3.44"

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Discarded OutFlow Max=46.49 cfs @ 12.11 hrs HW=595.58' (Free Discharge)

↑**1=Exfiltration** (Controls 46.49 cfs)

Primary OutFlow Max=2.31 cfs @ 12.11 hrs HW=595.58' TW=593.78' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Weir Controls 2.31 cfs @ 0.92 fps)

Secondary OutFlow Max=40.80 cfs @ 12.11 hrs HW=595.58' TW=593.78' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Custom Controls 40.80 cfs)

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Muirfield Drive Drainage Study Pre-Development Watershed

Type II 24-hr 90% Rainfall=1.00"

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Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN

Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=0.08"
Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=0.39 cfs 0.078 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=0.10"
Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=0.57 cfs 0.099 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=0.07"
Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=0.70 cfs 0.126 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=0.11"
Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=0.66 cfs 0.113 af

Pond AP1: Adjacent Property Peak Elev=593.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
Discarded=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond DP1: Peak Elev=588.00' Storage=0 cf Inflow=2.07 cfs 0.416 af
Discarded=2.07 cfs 0.416 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=2.07 cfs 0.416 af

Total Runoff Area = 56.769 ac Runoff Volume = 0.416 af Average Runoff Depth = 0.09"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 90% Rainfall=1.00"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 0.39 cfs @ 12.27 hrs, Volume= 0.078 af, Depth= 0.08"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 90% Rainfall=1.00"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1
					Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2
					Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3
					Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4
					Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 0.57 cfs @ 12.27 hrs, Volume= 0.099 af, Depth= 0.10"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 90% Rainfall=1.00"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 0.70 cfs @ 12.13 hrs, Volume= 0.126 af, Depth= 0.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 90% Rainfall=1.00"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 0.66 cfs @ 12.32 hrs, Volume= 0.113 af, Depth= 0.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 90% Rainfall=1.00"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.00" for 90% event
 Inflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 593.00' @ 0.01 hrs Surf.Area= 312 sf Storage= 0 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

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Type II 24-hr 90% Rainfall=1.00"

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Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑ **1=Exfiltration** (Passes 0.00 cfs of 2.17 cfs potential flow)**Secondary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑ **2=Special & User-Defined** (Controls 0.00 cfs)**Summary for Pond DP1:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.09" for 90% event
 Inflow = 2.07 cfs @ 12.26 hrs, Volume= 0.416 af
 Outflow = 2.07 cfs @ 12.26 hrs, Volume= 0.416 af, Atten= 0%, Lag= 0.0 min
 Discarded = 2.07 cfs @ 12.26 hrs, Volume= 0.416 af
 Primary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 588.00' @ 0.01 hrs Surf.Area= 2,100 sf Storage= 0 cf

Flood Elev= 596.00' Surf.Area= 7,601 sf Storage= 23,177 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 0.0 min (961.0 - 961.0)

Volume	Invert	Avail.Storage	Storage Description
#1	588.00'	23,177 cf	Vault/Basin (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,100	200.0	0	0	2,100
594.00	2,100	200.0	12,600	12,600	3,300
594.01	3,221	209.0	26	12,626	3,593
595.00	5,259	320.0	4,157	16,783	8,273
596.00	7,601	340.0	6,394	23,177	9,374

Device	Routing	Invert	Outlet Devices
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 1.00 16.00 17.00 Height (feet) 0.50 0.00 0.00 0.50
#3	Secondary	595.50'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 90% Rainfall=1.00"

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Discarded OutFlow Max=0.00 cfs @ 12.26 hrs HW=588.00' (Free Discharge)

↑**1=Exfiltration** (Passes 0.00 cfs of 14.58 cfs potential flow)

Primary OutFlow Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Controls 0.00 cfs)

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Muirfield Drive Drainage Study Pre-Development Watershed

Type II 24-hr 100 YR Rainfall=5.80"

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Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN

Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E

Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=3.60"
Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=41.80 cfs 3.359 af

Subcatchment4S: Hoag Ln W /

Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=3.70"
Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=44.49 cfs 3.723 af

Subcatchment5S: Churchill Ln N /

Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=3.50"
Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=103.13 cfs 6.299 af

Subcatchment6S: Muirfield Dr

Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=3.80"
Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=39.72 cfs 3.779 af

Pond AP1: Adjacent Property

Peak Elev=595.15' Storage=15,287 cf Inflow=155.14 cfs 4.830 af
Discarded=105.02 cfs 4.277 af Secondary=75.27 cfs 0.553 af Outflow=180.28 cfs 4.830 af

Pond DP1:

Peak Elev=595.78' Storage=21,568 cf Inflow=205.09 cfs 17.160 af
Discarded=49.88 cfs 12.330 af Primary=14.99 cfs 0.388 af Secondary=140.15 cfs 4.441 af Outflow=205.03 cfs 17.160 af

Total Runoff Area = 56.769 ac Runoff Volume = 17.160 af Average Runoff Depth = 3.63"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 100 YR Rainfall=5.80"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 41.80 cfs @ 12.15 hrs, Volume= 3.359 af, Depth= 3.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100 YR Rainfall=5.80"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1
					Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2
					Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3
					Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4
					Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 44.49 cfs @ 12.17 hrs, Volume= 3.723 af, Depth= 3.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100 YR Rainfall=5.80"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 103.13 cfs @ 12.05 hrs, Volume= 6.299 af, Depth= 3.50"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100 YR Rainfall=5.80"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 39.72 cfs @ 12.24 hrs, Volume= 3.779 af, Depth= 3.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100 YR Rainfall=5.80"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 1.02" for 100 YR event
 Inflow = 155.14 cfs @ 12.10 hrs, Volume= 4.830 af
 Outflow = 180.28 cfs @ 12.10 hrs, Volume= 4.830 af, Atten= 0%, Lag= 0.2 min
 Discarded = 105.02 cfs @ 12.10 hrs, Volume= 4.277 af
 Secondary = 75.27 cfs @ 12.10 hrs, Volume= 0.553 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 595.15' @ 12.10 hrs Surf.Area= 15,016 sf Storage= 15,287 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 1.7 min (731.7 - 730.0)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

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Muirfield Drive Drainage Study Pre-Development Watershed

Type II 24-hr 100 YR Rainfall=5.80"

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Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=105.02 cfs @ 12.10 hrs HW=595.15' (Free Discharge)↑**1=Exfiltration** (Controls 105.02 cfs)**Secondary OutFlow** Max=75.14 cfs @ 12.10 hrs HW=595.15' (Free Discharge)↑**2=Special & User-Defined** (Custom Controls 75.14 cfs)**Summary for Pond DP1:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 3.63" for 100 YR event
 Inflow = 205.09 cfs @ 12.10 hrs, Volume= 17.160 af
 Outflow = 205.03 cfs @ 12.10 hrs, Volume= 17.160 af, Atten= 0%, Lag= 0.1 min
 Discarded = 49.88 cfs @ 12.10 hrs, Volume= 12.330 af
 Primary = 14.99 cfs @ 12.10 hrs, Volume= 0.388 af
 Secondary = 140.15 cfs @ 12.10 hrs, Volume= 4.441 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 595.78' @ 12.10 hrs Surf.Area= 7,050 sf Storage= 21,568 cf

Flood Elev= 596.00' Surf.Area= 7,601 sf Storage= 23,177 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 3.3 min (828.8 - 825.5)

Volume	Invert	Avail.Storage	Storage Description		
#1	588.00'	23,177 cf	Vault/Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,100	200.0	0	0	2,100
594.00	2,100	200.0	12,600	12,600	3,300
594.01	3,221	209.0	26	12,626	3,593
595.00	5,259	320.0	4,157	16,783	8,273
596.00	7,601	340.0	6,394	23,177	9,374
Device	Routing	Invert	Outlet Devices		
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'		
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 1.00 16.00 17.00 Height (feet) 0.50 0.00 0.00 0.50		
#3	Secondary	595.50'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000		

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Type II 24-hr 100 YR Rainfall=5.80"

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Discarded OutFlow Max=49.88 cfs @ 12.10 hrs HW=595.78' (Free Discharge)

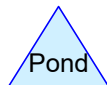
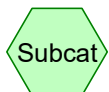
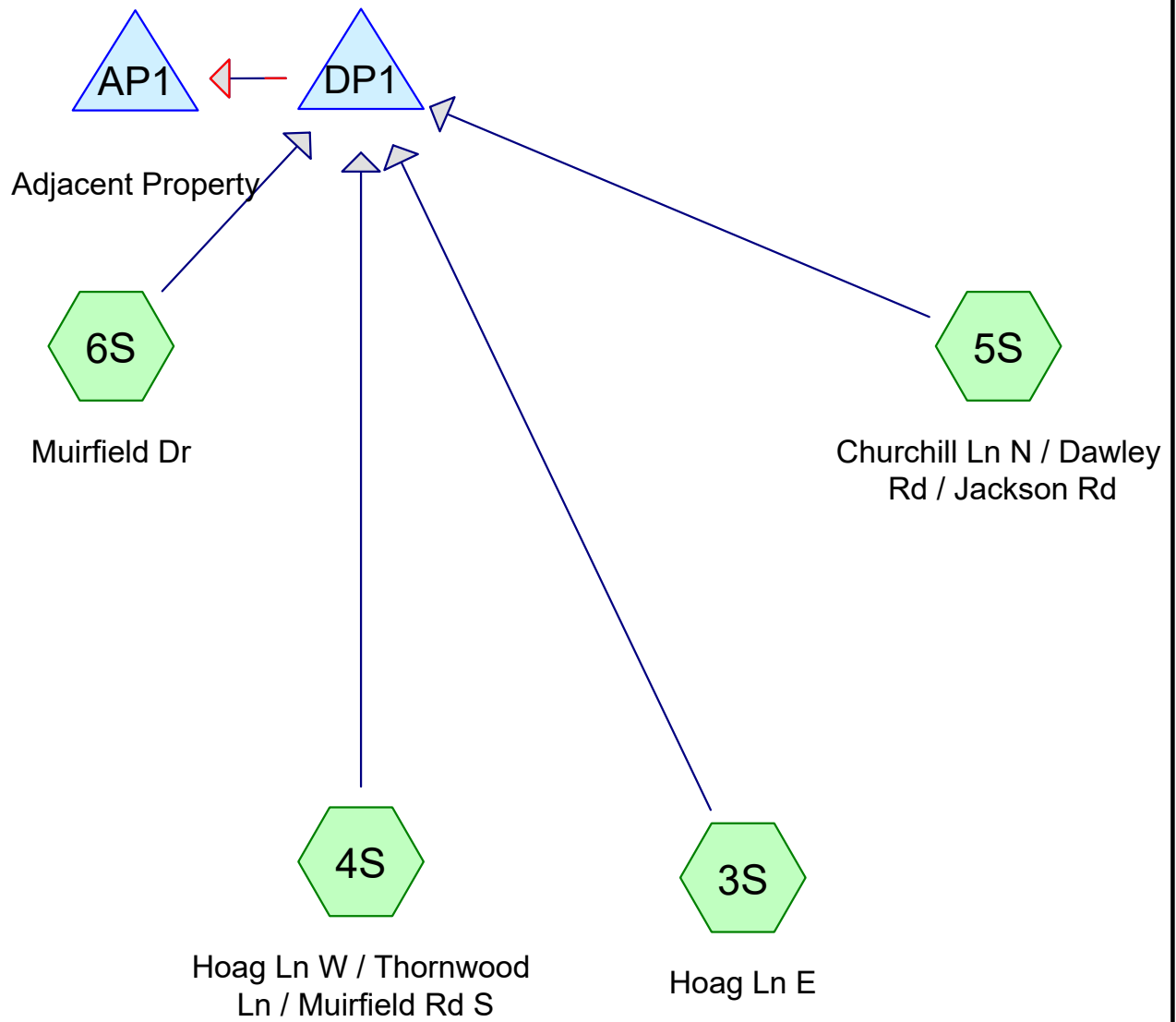
↑**1=Exfiltration** (Controls 49.88 cfs)

Primary OutFlow Max=14.98 cfs @ 12.10 hrs HW=595.78' TW=595.12' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Weir Controls 14.98 cfs @ 1.66 fps)

Secondary OutFlow Max=140.08 cfs @ 12.10 hrs HW=595.78' TW=595.12' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Custom Controls 140.08 cfs)



Routing Diagram for MJ1456.07_MODEL_POST_1

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
38.885	74	>75% Grass cover, Good, HSG C (3S, 4S, 5S, 6S)
3.904	80	>75% Grass cover, Good, HSG D (6S)
12.210	98	Paved parking/Roofs, HSG C (3S, 4S, 5S, 6S)
1.770	98	Paved parking/Roofs, HSG D (6S)
56.769	80	TOTAL AREA

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Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
51.096	HSG C	3S, 4S, 5S, 6S
5.674	HSG D	6S
0.000	Other	
56.769		TOTAL AREA

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Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	38.885	3.904	0.000	42.789	>75% Grass cover, Good	3S, 4S, 5S, 6S
0.000	0.000	12.210	1.770	0.000	13.980	Paved parking/Roofs	3S, 4S, 5S, 6S
0.000	0.000	51.096	5.674	0.000	56.769	TOTAL AREA	

Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3
 Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
 Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=0.59"
 Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=6.34 cfs 0.553 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=0.64"
 Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=7.16 cfs 0.640 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=0.55"
 Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=15.27 cfs 0.993 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=0.68"
 Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=6.71 cfs 0.677 af

Pond AP1: Adjacent Property Peak Elev=593.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
 Discarded=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond DP1: Peak Elev=594.01' Storage=12,623 cf Inflow=30.89 cfs 2.864 af
 Discarded=25.73 cfs 2.864 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=25.73 cfs 2.864 af

Total Runoff Area = 56.769 ac Runoff Volume = 2.864 af Average Runoff Depth = 0.61"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 1 YR Rainfall=2.05"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 6.34 cfs @ 12.17 hrs, Volume= 0.553 af, Depth= 0.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1 YR Rainfall=2.05"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1
					Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2
					Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3
					Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4
					Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 7.16 cfs @ 12.19 hrs, Volume= 0.640 af, Depth= 0.64"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1 YR Rainfall=2.05"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Type II 24-hr 1 YR Rainfall=2.05"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 15.27 cfs @ 12.07 hrs, Volume= 0.993 af, Depth= 0.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1 YR Rainfall=2.05"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 6.71 cfs @ 12.25 hrs, Volume= 0.677 af, Depth= 0.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1 YR Rainfall=2.05"

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Type II 24-hr 1 YR Rainfall=2.05"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.00" for 1 YR event
 Inflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 593.00' @ 0.01 hrs Surf.Area= 312 sf Storage= 0 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)
 ↑ **1=Exfiltration** (Passes 0.00 cfs of 2.17 cfs potential flow)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)
 ↑ **2=Special & User-Defined** (Controls 0.00 cfs)

Summary for Pond DP1:

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.61" for 1 YR event
 Inflow = 30.89 cfs @ 12.12 hrs, Volume= 2.864 af
 Outflow = 25.73 cfs @ 12.26 hrs, Volume= 2.864 af, Atten= 17%, Lag= 8.8 min
 Discarded = 25.73 cfs @ 12.26 hrs, Volume= 2.864 af
 Primary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 594.01' @ 12.26 hrs Surf.Area= 3,467 sf Storage= 12,623 cf
 Flood Elev= 596.00' Surf.Area= 7,883 sf Storage= 23,996 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 4.0 min (882.4 - 878.4)

Volume	Invert	Avail.Storage	Storage Description		
#1	588.00'	23,996 cf	Vault/Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,100	200.0	0	0	2,100
594.00	2,100	200.0	12,600	12,600	3,300
594.01	3,776	235.0	29	12,629	4,512
595.00	5,647	338.0	4,633	17,262	9,217
596.00	7,883	350.0	6,734	23,996	9,958

Device	Routing	Invert	Outlet Devices
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 1.00 16.00 17.00 Height (feet) 0.50 0.00 0.00 0.50
#3	Secondary	595.50'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 1 YR Rainfall=2.05"

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Discarded OutFlow Max=24.52 cfs @ 12.26 hrs HW=594.01' (Free Discharge)

↑**1=Exfiltration** (Controls 24.52 cfs)

Primary OutFlow Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Controls 0.00 cfs)

Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=0.81"
Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=9.02 cfs 0.759 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=0.86"
Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=10.03 cfs 0.870 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=0.76"
Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=21.84 cfs 1.375 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=0.92"
Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=9.29 cfs 0.912 af

Pond AP1: Adjacent Property Peak Elev=593.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
Discarded=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond DP1: Peak Elev=594.76' Storage=15,963 cf Inflow=43.98 cfs 3.916 af
Discarded=36.51 cfs 3.916 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=36.51 cfs 3.916 af

Total Runoff Area = 56.769 ac Runoff Volume = 3.916 af Average Runoff Depth = 0.83"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 2 YR Rainfall=2.39"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 9.02 cfs @ 12.17 hrs, Volume= 0.759 af, Depth= 0.81"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2 YR Rainfall=2.39"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1 Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2 Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 10.03 cfs @ 12.19 hrs, Volume= 0.870 af, Depth= 0.86"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2 YR Rainfall=2.39"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Type II 24-hr 2 YR Rainfall=2.39"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 21.84 cfs @ 12.06 hrs, Volume= 1.375 af, Depth= 0.76"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2 YR Rainfall=2.39"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 9.29 cfs @ 12.25 hrs, Volume= 0.912 af, Depth= 0.92"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2 YR Rainfall=2.39"

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Type II 24-hr 2 YR Rainfall=2.39"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.00" for 2 YR event
 Inflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 593.00' @ 0.01 hrs Surf.Area= 312 sf Storage= 0 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)
 ↑ **1=Exfiltration** (Passes 0.00 cfs of 2.17 cfs potential flow)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)
 ↑ **2=Special & User-Defined** (Controls 0.00 cfs)

Summary for Pond DP1:

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.83" for 2 YR event
 Inflow = 43.98 cfs @ 12.11 hrs, Volume= 3.916 af
 Outflow = 36.51 cfs @ 12.24 hrs, Volume= 3.916 af, Atten= 17%, Lag= 7.4 min
 Discarded = 36.51 cfs @ 12.24 hrs, Volume= 3.916 af
 Primary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 594.76' @ 12.24 hrs Surf.Area= 5,158 sf Storage= 15,963 cf
 Flood Elev= 596.00' Surf.Area= 7,883 sf Storage= 23,996 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 4.1 min (872.7 - 868.5)

Volume	Invert	Avail.Storage	Storage Description		
#1	588.00'	23,996 cf	Vault/Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,100	200.0	0	0	2,100
594.00	2,100	200.0	12,600	12,600	3,300
594.01	3,776	235.0	29	12,629	4,512
595.00	5,647	338.0	4,633	17,262	9,217
596.00	7,883	350.0	6,734	23,996	9,958

Device	Routing	Invert	Outlet Devices
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 1.00 16.00 17.00 Height (feet) 0.50 0.00 0.00 0.50
#3	Secondary	595.50'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 2 YR Rainfall=2.39"

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Discarded OutFlow Max=36.50 cfs @ 12.24 hrs HW=594.76' (Free Discharge)

↑**1=Exfiltration** (Controls 36.50 cfs)

Primary OutFlow Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Controls 0.00 cfs)

Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=1.59"
Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=18.32 cfs 1.482 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=1.66"
Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=19.91 cfs 1.670 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=1.52"
Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=44.83 cfs 2.733 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=1.73"
Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=18.09 cfs 1.722 af

Pond AP1: Adjacent Property Peak Elev=593.77' Storage=1,894 cf Inflow=40.87 cfs 0.694 af
Discarded=40.00 cfs 0.694 af Secondary=0.00 cfs 0.000 af Outflow=40.00 cfs 0.694 af

Pond DP1: Peak Elev=595.58' Storage=20,877 cf Inflow=89.68 cfs 7.607 af
Discarded=48.77 cfs 6.915 af Primary=2.13 cfs 0.032 af Secondary=38.74 cfs 0.662 af Outflow=89.64 cfs 7.609 af

Total Runoff Area = 56.769 ac Runoff Volume = 7.607 af Average Runoff Depth = 1.61"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 10 YR Rainfall=3.44"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 18.32 cfs @ 12.17 hrs, Volume= 1.482 af, Depth= 1.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10 YR Rainfall=3.44"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1
					Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2
					Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3
					Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4
					Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 19.91 cfs @ 12.18 hrs, Volume= 1.670 af, Depth= 1.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10 YR Rainfall=3.44"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Type II 24-hr 10 YR Rainfall=3.44"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 44.83 cfs @ 12.06 hrs, Volume= 2.733 af, Depth= 1.52"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10 YR Rainfall=3.44"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 18.09 cfs @ 12.25 hrs, Volume= 1.722 af, Depth= 1.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10 YR Rainfall=3.44"

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Type II 24-hr 10 YR Rainfall=3.44"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.15" for 10 YR event
 Inflow = 40.87 cfs @ 12.11 hrs, Volume= 0.694 af
 Outflow = 40.00 cfs @ 12.13 hrs, Volume= 0.694 af, Atten= 2%, Lag= 1.4 min
 Discarded = 40.00 cfs @ 12.13 hrs, Volume= 0.694 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 593.77' @ 12.13 hrs Surf.Area= 5,748 sf Storage= 1,894 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 0.7 min (730.5 - 729.8)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=39.97 cfs @ 12.13 hrs HW=593.77' (Free Discharge)
 ↑ **1=Exfiltration** (Controls 39.97 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)
 ↑ **2=Special & User-Defined** (Controls 0.00 cfs)

Summary for Pond DP1:

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 1.61" for 10 YR event
 Inflow = 89.68 cfs @ 12.10 hrs, Volume= 7.607 af
 Outflow = 89.64 cfs @ 12.11 hrs, Volume= 7.609 af, Atten= 0%, Lag= 0.2 min
 Discarded = 48.77 cfs @ 12.11 hrs, Volume= 6.915 af
 Primary = 2.13 cfs @ 12.11 hrs, Volume= 0.032 af
 Secondary = 38.74 cfs @ 12.11 hrs, Volume= 0.662 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 595.58' @ 12.11 hrs Surf.Area= 6,893 sf Storage= 20,877 cf
 Flood Elev= 596.00' Surf.Area= 7,883 sf Storage= 23,996 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 4.0 min (852.8 - 848.9)

Volume	Invert	Avail.Storage	Storage Description
#1	588.00'	23,996 cf	Vault/Basin (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,100	200.0	0	0	2,100
594.00	2,100	200.0	12,600	12,600	3,300
594.01	3,776	235.0	29	12,629	4,512
595.00	5,647	338.0	4,633	17,262	9,217
596.00	7,883	350.0	6,734	23,996	9,958

Device	Routing	Invert	Outlet Devices
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 1.00 16.00 17.00 Height (feet) 0.50 0.00 0.00 0.50
#3	Secondary	595.50'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 10 YR Rainfall=3.44"

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Discarded OutFlow Max=48.76 cfs @ 12.11 hrs HW=595.58' (Free Discharge)

↑**1=Exfiltration** (Controls 48.76 cfs)

Primary OutFlow Max=2.13 cfs @ 12.11 hrs HW=595.58' TW=593.75' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Weir Controls 2.13 cfs @ 0.90 fps)

Secondary OutFlow Max=38.69 cfs @ 12.11 hrs HW=595.58' TW=593.75' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Custom Controls 38.69 cfs)

Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3
 Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
 Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=0.08"
 Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=0.39 cfs 0.078 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=0.10"
 Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=0.57 cfs 0.099 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=0.07"
 Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=0.70 cfs 0.126 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=0.11"
 Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=0.66 cfs 0.113 af

Pond AP1: Adjacent Property Peak Elev=593.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
 Discarded=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond DP1: Peak Elev=588.00' Storage=0 cf Inflow=2.07 cfs 0.416 af
 Discarded=2.07 cfs 0.416 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=2.07 cfs 0.416 af

Total Runoff Area = 56.769 ac Runoff Volume = 0.416 af Average Runoff Depth = 0.09"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 90% Rainfall=1.00"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 0.39 cfs @ 12.27 hrs, Volume= 0.078 af, Depth= 0.08"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 90% Rainfall=1.00"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1
					Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2
					Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3
					Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4
					Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 0.57 cfs @ 12.27 hrs, Volume= 0.099 af, Depth= 0.10"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 90% Rainfall=1.00"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Type II 24-hr 90% Rainfall=1.00"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 0.70 cfs @ 12.13 hrs, Volume= 0.126 af, Depth= 0.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 90% Rainfall=1.00"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 0.66 cfs @ 12.32 hrs, Volume= 0.113 af, Depth= 0.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 90% Rainfall=1.00"

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Type II 24-hr 90% Rainfall=1.00"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.00" for 90% event
 Inflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 593.00' @ 0.01 hrs Surf.Area= 312 sf Storage= 0 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

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Type II 24-hr 90% Rainfall=1.00"

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Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑**1=Exfiltration** (Passes 0.00 cfs of 2.17 cfs potential flow)**Secondary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑**2=Special & User-Defined** (Controls 0.00 cfs)**Summary for Pond DP1:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.09" for 90% event
 Inflow = 2.07 cfs @ 12.26 hrs, Volume= 0.416 af
 Outflow = 2.07 cfs @ 12.26 hrs, Volume= 0.416 af, Atten= 0%, Lag= 0.0 min
 Discarded = 2.07 cfs @ 12.26 hrs, Volume= 0.416 af
 Primary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 588.00' @ 0.01 hrs Surf.Area= 2,100 sf Storage= 0 cf

Flood Elev= 596.00' Surf.Area= 7,883 sf Storage= 23,996 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 0.0 min (961.0 - 961.0)

Volume	Invert	Avail.Storage	Storage Description		
#1	588.00'	23,996 cf	Vault/Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,100	200.0	0	0	2,100
594.00	2,100	200.0	12,600	12,600	3,300
594.01	3,776	235.0	29	12,629	4,512
595.00	5,647	338.0	4,633	17,262	9,217
596.00	7,883	350.0	6,734	23,996	9,958
Device	Routing	Invert	Outlet Devices		
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'		
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 1.00 16.00 17.00 Height (feet) 0.50 0.00 0.00 0.50		
#3	Secondary	595.50'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000		

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Type II 24-hr 90% Rainfall=1.00"

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Discarded OutFlow Max=0.00 cfs @ 12.26 hrs HW=588.00' (Free Discharge)

↑**1=Exfiltration** (Passes 0.00 cfs of 14.58 cfs potential flow)

Primary OutFlow Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Controls 0.00 cfs)

Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=3.60"
Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=41.80 cfs 3.359 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=3.70"
Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=44.49 cfs 3.723 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=3.50"
Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=103.13 cfs 6.299 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=3.80"
Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=39.72 cfs 3.779 af

Pond AP1: Adjacent Property Peak Elev=595.10' Storage=15,287 cf Inflow=153.01 cfs 4.670 af
Discarded=104.98 cfs 4.166 af Secondary=50.89 cfs 0.504 af Outflow=155.88 cfs 4.670 af

Pond DP1: Peak Elev=595.78' Storage=22,295 cf Inflow=205.09 cfs 17.160 af
Discarded=52.01 cfs 12.490 af Primary=14.69 cfs 0.375 af Secondary=138.32 cfs 4.295 af Outflow=205.02 cfs 17.160 af

Total Runoff Area = 56.769 ac Runoff Volume = 17.160 af Average Runoff Depth = 3.63"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 100 YR Rainfall=5.80"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 41.80 cfs @ 12.15 hrs, Volume= 3.359 af, Depth= 3.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100 YR Rainfall=5.80"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1
					Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2
					Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3
					Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4
					Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 44.49 cfs @ 12.17 hrs, Volume= 3.723 af, Depth= 3.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100 YR Rainfall=5.80"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Type II 24-hr 100 YR Rainfall=5.80"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 103.13 cfs @ 12.05 hrs, Volume= 6.299 af, Depth= 3.50"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100 YR Rainfall=5.80"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 39.72 cfs @ 12.24 hrs, Volume= 3.779 af, Depth= 3.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100 YR Rainfall=5.80"

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Type II 24-hr 100 YR Rainfall=5.80"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.99" for 100 YR event
 Inflow = 153.01 cfs @ 12.10 hrs, Volume= 4.670 af
 Outflow = 155.88 cfs @ 12.09 hrs, Volume= 4.670 af, Atten= 0%, Lag= 0.0 min
 Discarded = 104.98 cfs @ 12.09 hrs, Volume= 4.166 af
 Secondary = 50.89 cfs @ 12.09 hrs, Volume= 0.504 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 595.10' @ 12.09 hrs Surf.Area= 15,016 sf Storage= 15,287 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 1.8 min (731.6 - 729.9)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=104.98 cfs @ 12.09 hrs HW=595.10' (Free Discharge)
 ↑ **1=Exfiltration** (Controls 104.98 cfs)

Secondary OutFlow Max=50.63 cfs @ 12.09 hrs HW=595.10' (Free Discharge)
 ↑ **2=Special & User-Defined** (Custom Controls 50.63 cfs)

Summary for Pond DP1:

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 3.63" for 100 YR event
 Inflow = 205.09 cfs @ 12.10 hrs, Volume= 17.160 af
 Outflow = 205.02 cfs @ 12.10 hrs, Volume= 17.160 af, Atten= 0%, Lag= 0.1 min
 Discarded = 52.01 cfs @ 12.10 hrs, Volume= 12.490 af
 Primary = 14.69 cfs @ 12.10 hrs, Volume= 0.375 af
 Secondary = 138.32 cfs @ 12.10 hrs, Volume= 4.295 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 595.78' @ 12.10 hrs Surf.Area= 7,351 sf Storage= 22,295 cf
 Flood Elev= 596.00' Surf.Area= 7,883 sf Storage= 23,996 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 3.3 min (828.8 - 825.5)

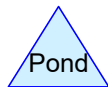
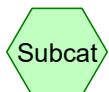
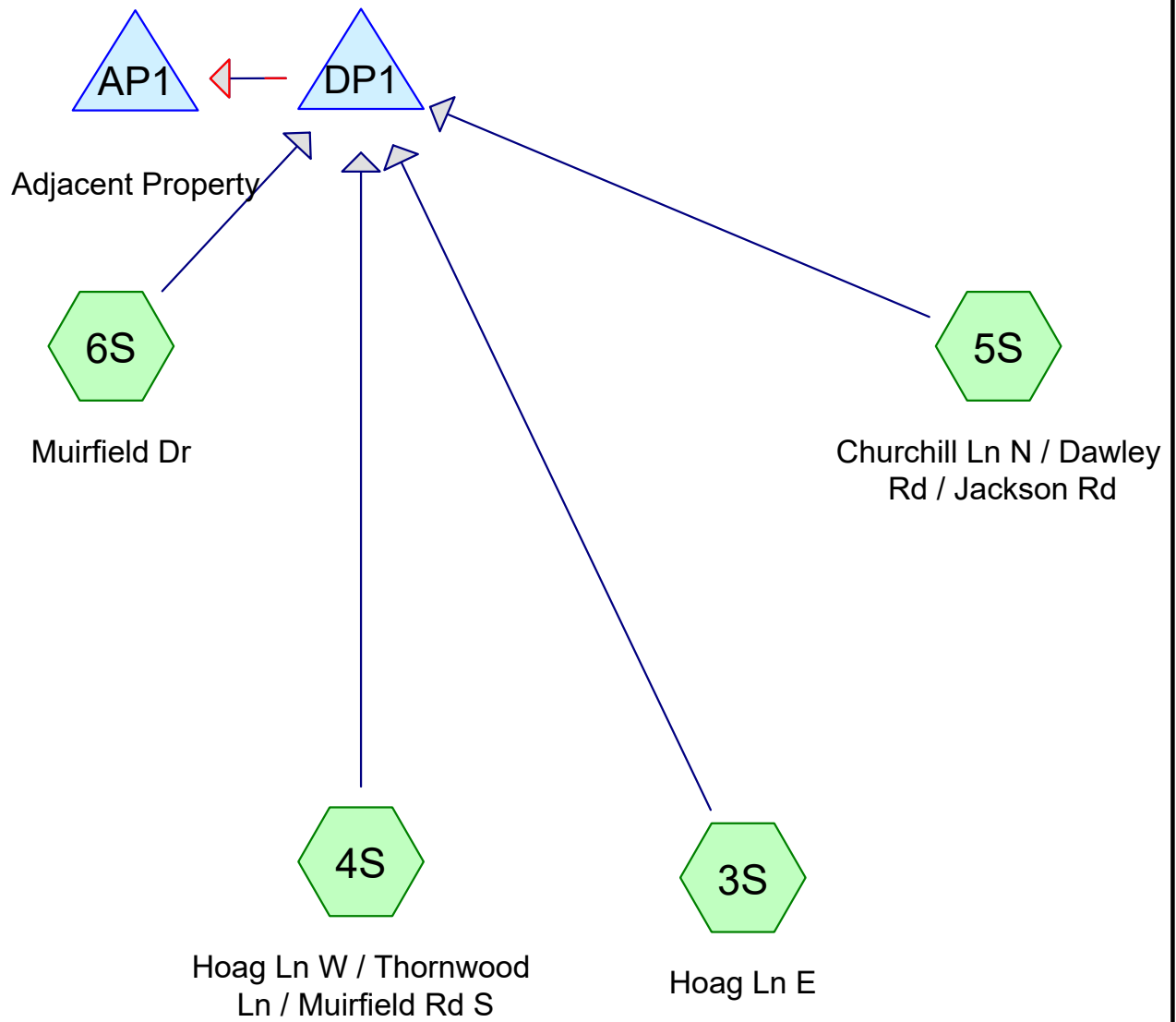
Volume	Invert	Avail.Storage	Storage Description		
#1	588.00'	23,996 cf	Vault/Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,100	200.0	0	0	2,100
594.00	2,100	200.0	12,600	12,600	3,300
594.01	3,776	235.0	29	12,629	4,512
595.00	5,647	338.0	4,633	17,262	9,217
596.00	7,883	350.0	6,734	23,996	9,958

Device	Routing	Invert	Outlet Devices
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 1.00 16.00 17.00 Height (feet) 0.50 0.00 0.00 0.50
#3	Secondary	595.50'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=52.01 cfs @ 12.10 hrs HW=595.78' (Free Discharge)
↑**1=Exfiltration** (Controls 52.01 cfs)

Primary OutFlow Max=14.68 cfs @ 12.10 hrs HW=595.78' TW=595.09' (Dynamic Tailwater)
↑**2=Asymmetrical Weir** (Weir Controls 14.68 cfs @ 1.65 fps)

Secondary OutFlow Max=138.25 cfs @ 12.10 hrs HW=595.78' TW=595.09' (Dynamic Tailwater)
↑**3=Special & User-Defined** (Custom Controls 138.25 cfs)



Routing Diagram for MJ1456.07_MODEL_POST_2

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
38.885	74	>75% Grass cover, Good, HSG C (3S, 4S, 5S, 6S)
3.904	80	>75% Grass cover, Good, HSG D (6S)
12.210	98	Paved parking/Roofs, HSG C (3S, 4S, 5S, 6S)
1.770	98	Paved parking/Roofs, HSG D (6S)
56.769	80	TOTAL AREA

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Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
51.096	HSG C	3S, 4S, 5S, 6S
5.674	HSG D	6S
0.000	Other	
56.769		TOTAL AREA

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Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	38.885	3.904	0.000	42.789	>75% Grass cover, Good	3S, 4S, 5S, 6S
0.000	0.000	12.210	1.770	0.000	13.980	Paved parking/Roofs	3S, 4S, 5S, 6S
0.000	0.000	51.096	5.674	0.000	56.769	TOTAL AREA	

Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3
 Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
 Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=0.59"
 Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=6.34 cfs 0.553 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=0.64"
 Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=7.16 cfs 0.640 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=0.55"
 Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=15.27 cfs 0.993 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=0.68"
 Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=6.71 cfs 0.677 af

Pond AP1: Adjacent Property Peak Elev=593.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
 Discarded=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond DP1: Peak Elev=592.01' Storage=10,429 cf Inflow=30.89 cfs 2.864 af
 Discarded=18.53 cfs 2.864 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=18.53 cfs 2.864 af

Total Runoff Area = 56.769 ac Runoff Volume = 2.864 af Average Runoff Depth = 0.61"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 1 YR Rainfall=2.05"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 6.34 cfs @ 12.17 hrs, Volume= 0.553 af, Depth= 0.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1 YR Rainfall=2.05"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1
					Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2
					Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3
					Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4
					Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 7.16 cfs @ 12.19 hrs, Volume= 0.640 af, Depth= 0.64"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1 YR Rainfall=2.05"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Type II 24-hr 1 YR Rainfall=2.05"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 15.27 cfs @ 12.07 hrs, Volume= 0.993 af, Depth= 0.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1 YR Rainfall=2.05"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 6.71 cfs @ 12.25 hrs, Volume= 0.677 af, Depth= 0.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1 YR Rainfall=2.05"

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Type II 24-hr 1 YR Rainfall=2.05"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.00" for 1 YR event
 Inflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 593.00' @ 0.01 hrs Surf.Area= 312 sf Storage= 0 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

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Type II 24-hr 1 YR Rainfall=2.05"

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Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑ **1=Exfiltration** (Passes 0.00 cfs of 2.17 cfs potential flow)**Secondary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑ **2=Special & User-Defined** (Controls 0.00 cfs)**Summary for Pond DP1:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.61" for 1 YR event
 Inflow = 30.89 cfs @ 12.12 hrs, Volume= 2.864 af
 Outflow = 18.53 cfs @ 12.37 hrs, Volume= 2.864 af, Atten= 40%, Lag= 14.9 min
 Discarded = 18.53 cfs @ 12.37 hrs, Volume= 2.864 af
 Primary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 592.01' @ 12.37 hrs Surf.Area= 2,602 sf Storage= 10,429 cf

Flood Elev= 596.00' Surf.Area= 7,883 sf Storage= 27,011 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 2.4 min (880.9 - 878.4)

Volume	Invert	Avail.Storage	Storage Description		
#1	588.00'	27,011 cf	Vault/Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,602	214.0	0	0	2,602
594.00	2,602	214.0	15,612	15,612	3,886
594.01	3,776	235.0	32	15,644	4,636
595.00	5,647	338.0	4,633	20,277	9,341
596.00	7,883	350.0	6,734	27,011	10,083
Device	Routing	Invert	Outlet Devices		
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'		
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 1.00 16.00 17.00 Height (feet) 0.50 0.00 0.00 0.50		
#3	Secondary	595.50'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000		

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Type II 24-hr 1 YR Rainfall=2.05"

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Discarded OutFlow Max=18.53 cfs @ 12.37 hrs HW=592.01' (Free Discharge)

↑**1=Exfiltration** (Controls 18.53 cfs)

Primary OutFlow Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Controls 0.00 cfs)

Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3
 Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
 Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=0.81"
 Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=9.02 cfs 0.759 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=0.86"
 Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=10.03 cfs 0.870 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=0.76"
 Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=21.84 cfs 1.375 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=0.92"
 Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=9.29 cfs 0.912 af

Pond AP1: Adjacent Property Peak Elev=593.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
 Discarded=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond DP1: Peak Elev=594.52' Storage=17,795 cf Inflow=43.98 cfs 3.916 af
 Discarded=33.35 cfs 3.919 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=33.35 cfs 3.919 af

Total Runoff Area = 56.769 ac Runoff Volume = 3.916 af Average Runoff Depth = 0.83"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 2 YR Rainfall=2.39"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 9.02 cfs @ 12.17 hrs, Volume= 0.759 af, Depth= 0.81"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2 YR Rainfall=2.39"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1
					Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2
					Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3
					Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4
					Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 10.03 cfs @ 12.19 hrs, Volume= 0.870 af, Depth= 0.86"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2 YR Rainfall=2.39"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Type II 24-hr 2 YR Rainfall=2.39"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 21.84 cfs @ 12.06 hrs, Volume= 1.375 af, Depth= 0.76"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2 YR Rainfall=2.39"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 9.29 cfs @ 12.25 hrs, Volume= 0.912 af, Depth= 0.92"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2 YR Rainfall=2.39"

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Type II 24-hr 2 YR Rainfall=2.39"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.00" for 2 YR event
 Inflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 593.00' @ 0.01 hrs Surf.Area= 312 sf Storage= 0 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

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Type II 24-hr 2 YR Rainfall=2.39"

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Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑**1=Exfiltration** (Passes 0.00 cfs of 2.17 cfs potential flow)**Secondary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑**2=Special & User-Defined** (Controls 0.00 cfs)**Summary for Pond DP1:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.83" for 2 YR event
 Inflow = 43.98 cfs @ 12.11 hrs, Volume= 3.916 af
 Outflow = 33.35 cfs @ 12.27 hrs, Volume= 3.919 af, Atten= 24%, Lag= 9.7 min
 Discarded = 33.35 cfs @ 12.27 hrs, Volume= 3.919 af
 Primary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 594.52' @ 12.27 hrs Surf.Area= 4,691 sf Storage= 17,795 cf

Flood Elev= 596.00' Surf.Area= 7,883 sf Storage= 27,011 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 4.2 min (872.7 - 868.5)

Volume	Invert	Avail.Storage	Storage Description		
#1	588.00'	27,011 cf	Vault/Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,602	214.0	0	0	2,602
594.00	2,602	214.0	15,612	15,612	3,886
594.01	3,776	235.0	32	15,644	4,636
595.00	5,647	338.0	4,633	20,277	9,341
596.00	7,883	350.0	6,734	27,011	10,083
Device	Routing	Invert	Outlet Devices		
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'		
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 1.00 16.00 17.00 Height (feet) 0.50 0.00 0.00 0.50		
#3	Secondary	595.50'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000		

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Type II 24-hr 2 YR Rainfall=2.39"

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Discarded OutFlow Max=33.35 cfs @ 12.27 hrs HW=594.52' (Free Discharge)

↑**1=Exfiltration** (Controls 33.35 cfs)

Primary OutFlow Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Controls 0.00 cfs)

Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=1.59"
Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=18.32 cfs 1.482 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=1.66"
Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=19.91 cfs 1.670 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=1.52"
Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=44.83 cfs 2.733 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=1.73"
Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=18.09 cfs 1.722 af

Pond AP1: Adjacent Property Peak Elev=593.76' Storage=1,856 cf Inflow=40.74 cfs 0.632 af
Discarded=39.47 cfs 0.632 af Secondary=0.00 cfs 0.000 af Outflow=39.47 cfs 0.632 af

Pond DP1: Peak Elev=595.58' Storage=23,890 cf Inflow=89.68 cfs 7.607 af
Discarded=48.90 cfs 6.978 af Primary=2.12 cfs 0.029 af Secondary=38.62 cfs 0.603 af Outflow=89.64 cfs 7.610 af

Total Runoff Area = 56.769 ac Runoff Volume = 7.607 af Average Runoff Depth = 1.61"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 10 YR Rainfall=3.44"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 18.32 cfs @ 12.17 hrs, Volume= 1.482 af, Depth= 1.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10 YR Rainfall=3.44"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1
					Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2
					Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3
					Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4
					Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 19.91 cfs @ 12.18 hrs, Volume= 1.670 af, Depth= 1.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10 YR Rainfall=3.44"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Type II 24-hr 10 YR Rainfall=3.44"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 44.83 cfs @ 12.06 hrs, Volume= 2.733 af, Depth= 1.52"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10 YR Rainfall=3.44"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 18.09 cfs @ 12.25 hrs, Volume= 1.722 af, Depth= 1.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10 YR Rainfall=3.44"

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Type II 24-hr 10 YR Rainfall=3.44"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.13" for 10 YR event
 Inflow = 40.74 cfs @ 12.11 hrs, Volume= 0.632 af
 Outflow = 39.47 cfs @ 12.13 hrs, Volume= 0.632 af, Atten= 3%, Lag= 1.7 min
 Discarded = 39.47 cfs @ 12.13 hrs, Volume= 0.632 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 593.76' @ 12.13 hrs Surf.Area= 5,672 sf Storage= 1,856 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 0.7 min (731.0 - 730.4)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

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Type II 24-hr 10 YR Rainfall=3.44"

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Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=39.42 cfs @ 12.13 hrs HW=593.76' (Free Discharge)↑**1=Exfiltration** (Controls 39.42 cfs)**Secondary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑**2=Special & User-Defined** (Controls 0.00 cfs)**Summary for Pond DP1:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 1.61" for 10 YR event
 Inflow = 89.68 cfs @ 12.10 hrs, Volume= 7.607 af
 Outflow = 89.64 cfs @ 12.11 hrs, Volume= 7.610 af, Atten= 0%, Lag= 0.2 min
 Discarded = 48.90 cfs @ 12.11 hrs, Volume= 6.978 af
 Primary = 2.12 cfs @ 12.11 hrs, Volume= 0.029 af
 Secondary = 38.62 cfs @ 12.11 hrs, Volume= 0.603 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 595.58' @ 12.11 hrs Surf.Area= 6,892 sf Storage= 23,890 cf

Flood Elev= 596.00' Surf.Area= 7,883 sf Storage= 27,011 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 4.1 min (853.0 - 848.9)

Volume	Invert	Avail.Storage	Storage Description		
#1	588.00'	27,011 cf	Vault/Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,602	214.0	0	0	2,602
594.00	2,602	214.0	15,612	15,612	3,886
594.01	3,776	235.0	32	15,644	4,636
595.00	5,647	338.0	4,633	20,277	9,341
596.00	7,883	350.0	6,734	27,011	10,083
Device	Routing	Invert	Outlet Devices		
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'		
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 1.00 16.00 17.00 Height (feet) 0.50 0.00 0.00 0.50		
#3	Secondary	595.50'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000		

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Type II 24-hr 10 YR Rainfall=3.44"

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Discarded OutFlow Max=48.90 cfs @ 12.11 hrs HW=595.58' (Free Discharge)

↑**1=Exfiltration** (Controls 48.90 cfs)

Primary OutFlow Max=2.12 cfs @ 12.11 hrs HW=595.58' TW=593.73' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Weir Controls 2.12 cfs @ 0.90 fps)

Secondary OutFlow Max=38.57 cfs @ 12.11 hrs HW=595.58' TW=593.73' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Custom Controls 38.57 cfs)

Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3
 Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
 Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=0.08"
 Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=0.39 cfs 0.078 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=0.10"
 Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=0.57 cfs 0.099 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=0.07"
 Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=0.70 cfs 0.126 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=0.11"
 Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=0.66 cfs 0.113 af

Pond AP1: Adjacent Property Peak Elev=593.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
 Discarded=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond DP1: Peak Elev=588.00' Storage=0 cf Inflow=2.07 cfs 0.416 af
 Discarded=2.07 cfs 0.416 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=2.07 cfs 0.416 af

Total Runoff Area = 56.769 ac Runoff Volume = 0.416 af Average Runoff Depth = 0.09"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 90% Rainfall=1.00"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 0.39 cfs @ 12.27 hrs, Volume= 0.078 af, Depth= 0.08"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 90% Rainfall=1.00"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1 Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2 Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 0.57 cfs @ 12.27 hrs, Volume= 0.099 af, Depth= 0.10"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 90% Rainfall=1.00"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Type II 24-hr 90% Rainfall=1.00"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 0.70 cfs @ 12.13 hrs, Volume= 0.126 af, Depth= 0.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 90% Rainfall=1.00"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 0.66 cfs @ 12.32 hrs, Volume= 0.113 af, Depth= 0.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 90% Rainfall=1.00"

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Type II 24-hr 90% Rainfall=1.00"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.00" for 90% event
 Inflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 593.00' @ 0.01 hrs Surf.Area= 312 sf Storage= 0 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

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Type II 24-hr 90% Rainfall=1.00"

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Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑ **1=Exfiltration** (Passes 0.00 cfs of 2.17 cfs potential flow)**Secondary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑ **2=Special & User-Defined** (Controls 0.00 cfs)**Summary for Pond DP1:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.09" for 90% event
 Inflow = 2.07 cfs @ 12.26 hrs, Volume= 0.416 af
 Outflow = 2.07 cfs @ 12.26 hrs, Volume= 0.416 af, Atten= 0%, Lag= 0.0 min
 Discarded = 2.07 cfs @ 12.26 hrs, Volume= 0.416 af
 Primary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 588.00' @ 0.01 hrs Surf.Area= 2,602 sf Storage= 0 cf

Flood Elev= 596.00' Surf.Area= 7,883 sf Storage= 27,011 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 0.0 min (961.0 - 961.0)

Volume	Invert	Avail.Storage	Storage Description		
#1	588.00'	27,011 cf	Vault/Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,602	214.0	0	0	2,602
594.00	2,602	214.0	15,612	15,612	3,886
594.01	3,776	235.0	32	15,644	4,636
595.00	5,647	338.0	4,633	20,277	9,341
596.00	7,883	350.0	6,734	27,011	10,083
Device	Routing	Invert	Outlet Devices		
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'		
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 1.00 16.00 17.00 Height (feet) 0.50 0.00 0.00 0.50		
#3	Secondary	595.50'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000		

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Type II 24-hr 90% Rainfall=1.00"

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Discarded OutFlow Max=0.00 cfs @ 12.26 hrs HW=588.00' (Free Discharge)

↑**1=Exfiltration** (Passes 0.00 cfs of 18.07 cfs potential flow)

Primary OutFlow Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Controls 0.00 cfs)

Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=3.60"
Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=41.80 cfs 3.359 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=3.70"
Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=44.49 cfs 3.723 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=3.50"
Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=103.13 cfs 6.299 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=3.80"
Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=39.72 cfs 3.779 af

Pond AP1: Adjacent Property Peak Elev=595.11' Storage=15,287 cf Inflow=152.88 cfs 4.599 af
Discarded=104.99 cfs 4.097 af Secondary=54.43 cfs 0.503 af Outflow=159.41 cfs 4.599 af

Pond DP1: Peak Elev=595.78' Storage=25,308 cf Inflow=205.09 cfs 17.160 af
Discarded=52.14 cfs 12.561 af Primary=14.68 cfs 0.371 af Secondary=138.21 cfs 4.228 af Outflow=205.02 cfs 17.160 af

Total Runoff Area = 56.769 ac Runoff Volume = 17.160 af Average Runoff Depth = 3.63"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 100 YR Rainfall=5.80"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 41.80 cfs @ 12.15 hrs, Volume= 3.359 af, Depth= 3.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100 YR Rainfall=5.80"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1
					Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2
					Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3
					Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4
					Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 44.49 cfs @ 12.17 hrs, Volume= 3.723 af, Depth= 3.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100 YR Rainfall=5.80"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Type II 24-hr 100 YR Rainfall=5.80"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 103.13 cfs @ 12.05 hrs, Volume= 6.299 af, Depth= 3.50"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100 YR Rainfall=5.80"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 39.72 cfs @ 12.24 hrs, Volume= 3.779 af, Depth= 3.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100 YR Rainfall=5.80"

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Type II 24-hr 100 YR Rainfall=5.80"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.97" for 100 YR event
 Inflow = 152.88 cfs @ 12.10 hrs, Volume= 4.599 af
 Outflow = 159.41 cfs @ 12.09 hrs, Volume= 4.599 af, Atten= 0%, Lag= 0.0 min
 Discarded = 104.99 cfs @ 12.09 hrs, Volume= 4.097 af
 Secondary = 54.43 cfs @ 12.09 hrs, Volume= 0.503 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 595.11' @ 12.09 hrs Surf.Area= 15,016 sf Storage= 15,287 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 1.8 min (731.8 - 730.1)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=104.99 cfs @ 12.09 hrs HW=595.11' (Free Discharge)
 ↑ **1=Exfiltration** (Controls 104.99 cfs)

Secondary OutFlow Max=54.16 cfs @ 12.09 hrs HW=595.11' (Free Discharge)
 ↑ **2=Special & User-Defined** (Custom Controls 54.16 cfs)

Summary for Pond DP1:

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 3.63" for 100 YR event
 Inflow = 205.09 cfs @ 12.10 hrs, Volume= 17.160 af
 Outflow = 205.02 cfs @ 12.10 hrs, Volume= 17.160 af, Atten= 0%, Lag= 0.1 min
 Discarded = 52.14 cfs @ 12.10 hrs, Volume= 12.561 af
 Primary = 14.68 cfs @ 12.10 hrs, Volume= 0.371 af
 Secondary = 138.21 cfs @ 12.10 hrs, Volume= 4.228 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 595.78' @ 12.10 hrs Surf.Area= 7,351 sf Storage= 25,308 cf
 Flood Elev= 596.00' Surf.Area= 7,883 sf Storage= 27,011 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 3.3 min (828.9 - 825.5)

Volume	Invert	Avail.Storage	Storage Description		
#1	588.00'	27,011 cf	Vault/Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,602	214.0	0	0	2,602
594.00	2,602	214.0	15,612	15,612	3,886
594.01	3,776	235.0	32	15,644	4,636
595.00	5,647	338.0	4,633	20,277	9,341
596.00	7,883	350.0	6,734	27,011	10,083

Device	Routing	Invert	Outlet Devices
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 1.00 16.00 17.00 Height (feet) 0.50 0.00 0.00 0.50
#3	Secondary	595.50'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 100 YR Rainfall=5.80"

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Discarded OutFlow Max=52.14 cfs @ 12.10 hrs HW=595.78' (Free Discharge)

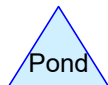
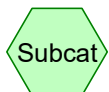
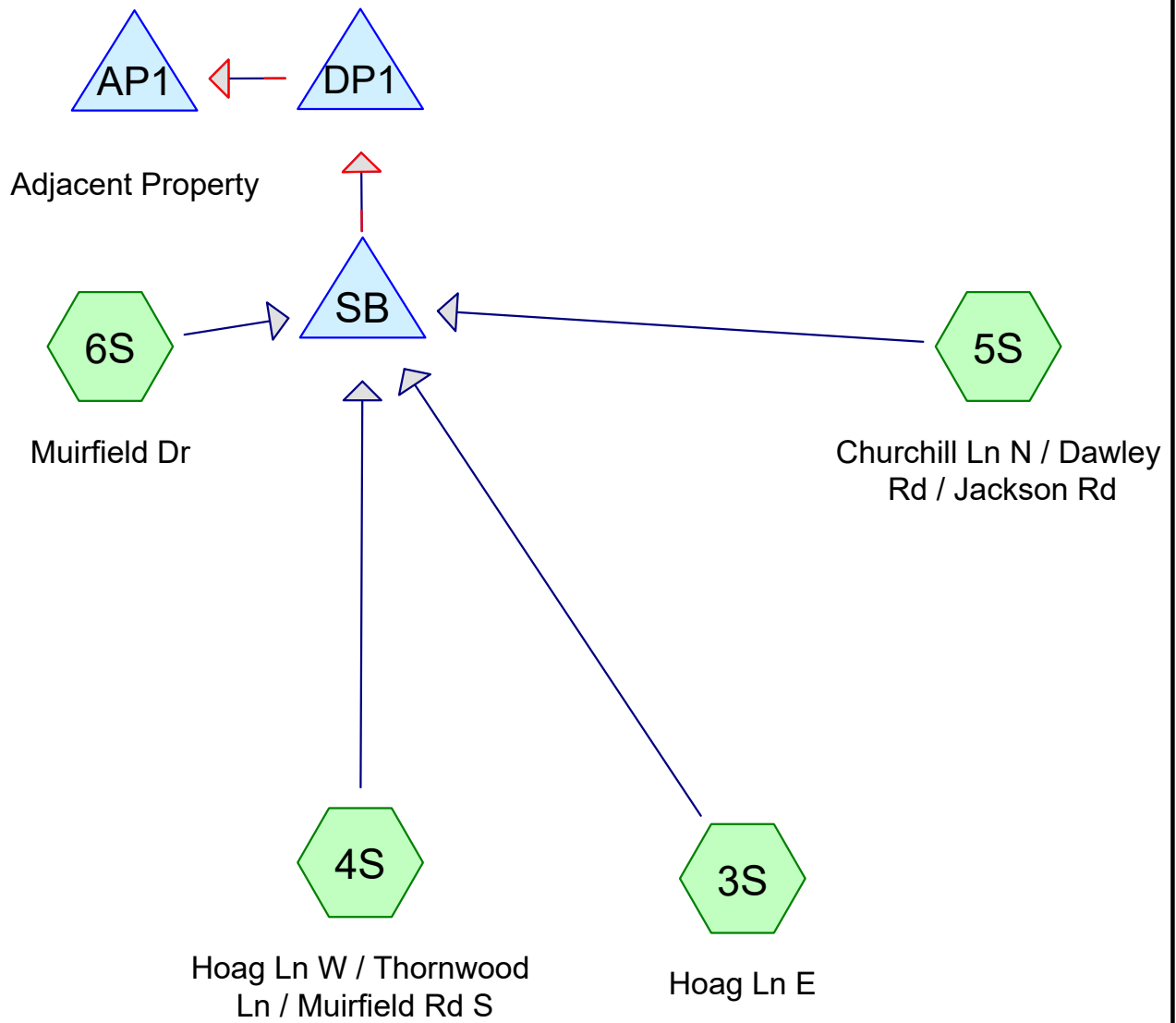
↑**1=Exfiltration** (Controls 52.14 cfs)

Primary OutFlow Max=14.66 cfs @ 12.10 hrs HW=595.78' TW=595.09' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Weir Controls 14.66 cfs @ 1.65 fps)

Secondary OutFlow Max=138.13 cfs @ 12.10 hrs HW=595.78' TW=595.09' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Custom Controls 138.13 cfs)



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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
38.885	74	>75% Grass cover, Good, HSG C (3S, 4S, 5S, 6S)
3.904	80	>75% Grass cover, Good, HSG D (6S)
12.210	98	Paved parking/Roofs, HSG C (3S, 4S, 5S, 6S)
1.770	98	Paved parking/Roofs, HSG D (6S)
56.769	80	TOTAL AREA

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Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
51.096	HSG C	3S, 4S, 5S, 6S
5.674	HSG D	6S
0.000	Other	
56.769		TOTAL AREA

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Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	38.885	3.904	0.000	42.789	>75% Grass cover, Good	3S, 4S, 5S, 6S
0.000	0.000	12.210	1.770	0.000	13.980	Paved parking/Roofs	3S, 4S, 5S, 6S
0.000	0.000	51.096	5.674	0.000	56.769	TOTAL AREA	

Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3
 Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
 Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=0.59"
 Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=6.34 cfs 0.553 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=0.64"
 Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=7.16 cfs 0.640 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=0.55"
 Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=15.27 cfs 0.993 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=0.68"
 Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=6.71 cfs 0.677 af

Pond AP1: Adjacent Property Peak Elev=593.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
 Discarded=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond DP1: Peak Elev=588.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
 Discarded=0.00 cfs 0.000 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond SB: Peak Elev=597.40' Storage=6,465 cf Inflow=30.89 cfs 2.864 af
 Discarded=25.75 cfs 2.865 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=25.75 cfs 2.865 af

Total Runoff Area = 56.769 ac Runoff Volume = 2.864 af Average Runoff Depth = 0.61"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 1 YR Rainfall=2.05"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 6.34 cfs @ 12.17 hrs, Volume= 0.553 af, Depth= 0.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1 YR Rainfall=2.05"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1
					Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2
					Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3
					Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4
					Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 7.16 cfs @ 12.19 hrs, Volume= 0.640 af, Depth= 0.64"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1 YR Rainfall=2.05"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Type II 24-hr 1 YR Rainfall=2.05"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 15.27 cfs @ 12.07 hrs, Volume= 0.993 af, Depth= 0.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1 YR Rainfall=2.05"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 6.71 cfs @ 12.25 hrs, Volume= 0.677 af, Depth= 0.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1 YR Rainfall=2.05"

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Type II 24-hr 1 YR Rainfall=2.05"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.00" for 1 YR event
 Inflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 593.00' @ 0.01 hrs Surf.Area= 312 sf Storage= 0 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

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Type II 24-hr 1 YR Rainfall=2.05"

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Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑ **1=Exfiltration** (Passes 0.00 cfs of 2.17 cfs potential flow)**Secondary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑ **2=Special & User-Defined** (Controls 0.00 cfs)**Summary for Pond DP1:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.00" for 1 YR event
 Inflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Primary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 588.00' @ 0.01 hrs Surf.Area= 2,100 sf Storage= 0 cf

Flood Elev= 596.00' Surf.Area= 7,883 sf Storage= 23,996 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)

Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description		
#1	588.00'	23,996 cf	Vault/Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,100	200.0	0	0	2,100
594.00	2,100	200.0	12,600	12,600	3,300
594.01	3,776	235.0	29	12,629	4,512
595.00	5,647	338.0	4,633	17,262	9,217
596.00	7,883	350.0	6,734	23,996	9,958
Device	Routing	Invert	Outlet Devices		
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'		
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 1.00 16.00 17.00 Height (feet) 0.50 0.00 0.00 0.50		
#3	Secondary	595.50'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000		

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Type II 24-hr 1 YR Rainfall=2.05"

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Discarded OutFlow Max=0.00 cfs @ 0.01 hrs HW=588.00' (Free Discharge)↑ **1=Exfiltration** (Passes 0.00 cfs of 14.58 cfs potential flow)**Primary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)↑ **2=Asymmetrical Weir** (Controls 0.00 cfs)**Secondary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)↑ **3=Special & User-Defined** (Controls 0.00 cfs)**Summary for Pond SB:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.61" for 1 YR event
 Inflow = 30.89 cfs @ 12.12 hrs, Volume= 2.864 af
 Outflow = 25.75 cfs @ 12.24 hrs, Volume= 2.865 af, Atten= 17%, Lag= 7.5 min
 Discarded = 25.75 cfs @ 12.24 hrs, Volume= 2.865 af
 Primary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 597.40' @ 12.24 hrs Surf.Area= 3,669 sf Storage= 6,465 cf

Flood Elev= 598.50' Surf.Area= 4,655 sf Storage= 11,027 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 1.3 min (879.7 - 878.4)

Volume	Invert	Avail.Storage	Storage Description		
#1	595.00'	11,027 cf	Stilling Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
595.00	1,783	231.0	0	0	1,783
596.00	2,519	254.0	2,140	2,140	2,703
597.00	3,332	280.0	2,916	5,056	3,840
598.00	4,200	299.0	3,758	8,814	4,762
598.50	4,655	308.0	2,213	11,027	5,222

Device	Routing	Invert	Outlet Devices
#1	Discarded	595.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	597.50'	Asymmetrical Weir, C= 3.27 Offset (feet) 0.00 3.00 13.00 16.00 Height (feet) 1.00 0.00 0.00 1.00
#3	Secondary	598.00'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 1 YR Rainfall=2.05"

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Discarded OutFlow Max=25.75 cfs @ 12.24 hrs HW=597.40' (Free Discharge)

↑**1=Exfiltration** (Controls 25.75 cfs)

Primary OutFlow Max=0.00 cfs @ 0.01 hrs HW=595.00' TW=588.00' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=595.00' TW=588.00' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Controls 0.00 cfs)

Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=0.81"
Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=9.02 cfs 0.759 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=0.86"
Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=10.03 cfs 0.870 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=0.76"
Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=21.84 cfs 1.375 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=0.92"
Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=9.29 cfs 0.912 af

Pond AP1: Adjacent Property Peak Elev=593.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
Discarded=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond DP1: Peak Elev=588.00' Storage=0 cf Inflow=12.73 cfs 0.187 af
Discarded=12.73 cfs 0.187 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=12.73 cfs 0.187 af

Pond SB: Peak Elev=597.99' Storage=8,792 cf Inflow=43.98 cfs 3.916 af
Discarded=29.50 cfs 3.729 af Primary=12.73 cfs 0.187 af Secondary=0.00 cfs 0.000 af Outflow=42.23 cfs 3.917 af

Total Runoff Area = 56.769 ac Runoff Volume = 3.916 af Average Runoff Depth = 0.83"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 2 YR Rainfall=2.39"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 9.02 cfs @ 12.17 hrs, Volume= 0.759 af, Depth= 0.81"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2 YR Rainfall=2.39"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1
					Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2
					Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3
					Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4
					Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 10.03 cfs @ 12.19 hrs, Volume= 0.870 af, Depth= 0.86"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2 YR Rainfall=2.39"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Type II 24-hr 2 YR Rainfall=2.39"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 21.84 cfs @ 12.06 hrs, Volume= 1.375 af, Depth= 0.76"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2 YR Rainfall=2.39"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 9.29 cfs @ 12.25 hrs, Volume= 0.912 af, Depth= 0.92"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2 YR Rainfall=2.39"

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Type II 24-hr 2 YR Rainfall=2.39"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.00" for 2 YR event
 Inflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 593.00' @ 0.01 hrs Surf.Area= 312 sf Storage= 0 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

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Type II 24-hr 2 YR Rainfall=2.39"

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Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑**1=Exfiltration** (Passes 0.00 cfs of 2.17 cfs potential flow)**Secondary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑**2=Special & User-Defined** (Controls 0.00 cfs)**Summary for Pond DP1:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.04" for 2 YR event
 Inflow = 12.73 cfs @ 12.16 hrs, Volume= 0.187 af
 Outflow = 12.73 cfs @ 12.16 hrs, Volume= 0.187 af, Atten= 0%, Lag= 0.0 min
 Discarded = 12.73 cfs @ 12.16 hrs, Volume= 0.187 af
 Primary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 588.00' @ 12.16 hrs Surf.Area= 2,100 sf Storage= 0 cf

Flood Elev= 596.00' Surf.Area= 7,883 sf Storage= 23,996 cf

Plug-Flow detention time= 0.0 min calculated for 0.187 af (100% of inflow)

Center-of-Mass det. time= 0.0 min (732.2 - 732.2)

Volume	Invert	Avail.Storage	Storage Description		
#1	588.00'	23,996 cf	Vault/Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,100	200.0	0	0	2,100
594.00	2,100	200.0	12,600	12,600	3,300
594.01	3,776	235.0	29	12,629	4,512
595.00	5,647	338.0	4,633	17,262	9,217
596.00	7,883	350.0	6,734	23,996	9,958
Device	Routing	Invert	Outlet Devices		
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'		
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 1.00 16.00 17.00 Height (feet) 0.50 0.00 0.00 0.50		
#3	Secondary	595.50'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000		

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Type II 24-hr 2 YR Rainfall=2.39"

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Discarded OutFlow Max=14.58 cfs @ 12.16 hrs HW=588.00' (Free Discharge)↑**1=Exfiltration** (Controls 14.58 cfs)**Primary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)↑**2=Asymmetrical Weir** (Controls 0.00 cfs)**Secondary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)↑**3=Special & User-Defined** (Controls 0.00 cfs)**Summary for Pond SB:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.83" for 2 YR event
 Inflow = 43.98 cfs @ 12.11 hrs, Volume= 3.916 af
 Outflow = 42.23 cfs @ 12.16 hrs, Volume= 3.917 af, Atten= 4%, Lag= 3.0 min
 Discarded = 29.50 cfs @ 12.16 hrs, Volume= 3.729 af
 Primary = 12.73 cfs @ 12.16 hrs, Volume= 0.187 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 597.99' @ 12.16 hrs Surf.Area= 4,195 sf Storage= 8,792 cf

Flood Elev= 598.50' Surf.Area= 4,655 sf Storage= 11,027 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 1.6 min (870.1 - 868.5)

Volume	Invert	Avail.Storage	Storage Description		
#1	595.00'	11,027 cf	Stilling Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
595.00	1,783	231.0	0	0	1,783
596.00	2,519	254.0	2,140	2,140	2,703
597.00	3,332	280.0	2,916	5,056	3,840
598.00	4,200	299.0	3,758	8,814	4,762
598.50	4,655	308.0	2,213	11,027	5,222

Device	Routing	Invert	Outlet Devices
#1	Discarded	595.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	597.50'	Asymmetrical Weir, C= 3.27 Offset (feet) 0.00 3.00 13.00 16.00 Height (feet) 1.00 0.00 0.00 1.00
#3	Secondary	598.00'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 2 YR Rainfall=2.39"

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Discarded OutFlow Max=29.50 cfs @ 12.16 hrs HW=597.99' (Free Discharge)

↑**1=Exfiltration** (Controls 29.50 cfs)

Primary OutFlow Max=12.72 cfs @ 12.16 hrs HW=597.99' TW=588.00' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Weir Controls 12.72 cfs @ 1.98 fps)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=595.00' TW=588.00' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Controls 0.00 cfs)

Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=1.59"
Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=18.32 cfs 1.482 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=1.66"
Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=19.91 cfs 1.670 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=1.52"
Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=44.83 cfs 2.733 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=1.73"
Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=18.09 cfs 1.722 af

Pond AP1: Adjacent Property Peak Elev=593.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
Discarded=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond DP1: Peak Elev=595.37' Storage=19,471 cf Inflow=59.57 cfs 1.574 af
Discarded=45.44 cfs 1.574 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=45.44 cfs 1.574 af

Pond SB: Peak Elev=598.09' Storage=9,177 cf Inflow=89.68 cfs 7.607 af
Discarded=30.08 cfs 6.033 af Primary=16.72 cfs 0.654 af Secondary=42.86 cfs 0.920 af Outflow=89.65 cfs 7.607 af

Total Runoff Area = 56.769 ac Runoff Volume = 7.607 af Average Runoff Depth = 1.61"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 10 YR Rainfall=3.44"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 18.32 cfs @ 12.17 hrs, Volume= 1.482 af, Depth= 1.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10 YR Rainfall=3.44"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1
					Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2
					Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3
					Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4
					Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 19.91 cfs @ 12.18 hrs, Volume= 1.670 af, Depth= 1.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10 YR Rainfall=3.44"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 44.83 cfs @ 12.06 hrs, Volume= 2.733 af, Depth= 1.52"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10 YR Rainfall=3.44"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 18.09 cfs @ 12.25 hrs, Volume= 1.722 af, Depth= 1.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10 YR Rainfall=3.44"

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Type II 24-hr 10 YR Rainfall=3.44"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.00" for 10 YR event
 Inflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 593.00' @ 0.01 hrs Surf.Area= 312 sf Storage= 0 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

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Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑ **1=Exfiltration** (Passes 0.00 cfs of 2.17 cfs potential flow)**Secondary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑ **2=Special & User-Defined** (Controls 0.00 cfs)**Summary for Pond DP1:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.33" for 10 YR event
 Inflow = 59.57 cfs @ 12.10 hrs, Volume= 1.574 af
 Outflow = 45.44 cfs @ 12.22 hrs, Volume= 1.574 af, Atten= 24%, Lag= 6.7 min
 Discarded = 45.44 cfs @ 12.22 hrs, Volume= 1.574 af
 Primary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 595.37' @ 12.22 hrs Surf.Area= 6,423 sf Storage= 19,471 cf

Flood Elev= 596.00' Surf.Area= 7,883 sf Storage= 23,996 cf

Plug-Flow detention time= 7.4 min calculated for 1.574 af (100% of inflow)

Center-of-Mass det. time= 7.4 min (738.2 - 730.9)

Volume	Invert	Avail.Storage	Storage Description
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#1	588.00'	23,996 cf	Vault/Basin (Irregular) Listed below (Recalc)
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Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,100	200.0	0	0	2,100
594.00	2,100	200.0	12,600	12,600	3,300
594.01	3,776	235.0	29	12,629	4,512
595.00	5,647	338.0	4,633	17,262	9,217
596.00	7,883	350.0	6,734	23,996	9,958

Device	Routing	Invert	Outlet Devices
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#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 1.00 16.00 17.00 Height (feet) 0.50 0.00 0.00 0.50
#3	Secondary	595.50'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Discarded OutFlow Max=45.42 cfs @ 12.22 hrs HW=595.37' (Free Discharge)↑ **1=Exfiltration** (Controls 45.42 cfs)**Primary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)↑ **2=Asymmetrical Weir** (Controls 0.00 cfs)**Secondary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)↑ **3=Special & User-Defined** (Controls 0.00 cfs)**Summary for Pond SB:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 1.61" for 10 YR event
 Inflow = 89.68 cfs @ 12.10 hrs, Volume= 7.607 af
 Outflow = 89.65 cfs @ 12.10 hrs, Volume= 7.607 af, Atten= 0%, Lag= 0.1 min
 Discarded = 30.08 cfs @ 12.10 hrs, Volume= 6.033 af
 Primary = 16.72 cfs @ 12.10 hrs, Volume= 0.654 af
 Secondary = 42.86 cfs @ 12.10 hrs, Volume= 0.920 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 598.09' @ 12.10 hrs Surf.Area= 4,276 sf Storage= 9,177 cf

Flood Elev= 598.50' Surf.Area= 4,655 sf Storage= 11,027 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 1.4 min (850.3 - 848.9)

Volume	Invert	Avail.Storage	Storage Description
#1	595.00'	11,027 cf	Stilling Basin (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
595.00	1,783	231.0	0	0	1,783
596.00	2,519	254.0	2,140	2,140	2,703
597.00	3,332	280.0	2,916	5,056	3,840
598.00	4,200	299.0	3,758	8,814	4,762
598.50	4,655	308.0	2,213	11,027	5,222

Device	Routing	Invert	Outlet Devices
#1	Discarded	595.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	597.50'	Asymmetrical Weir, C= 3.27 Offset (feet) 0.00 3.00 13.00 16.00 Height (feet) 1.00 0.00 0.00 1.00
#3	Secondary	598.00'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 10 YR Rainfall=3.44"

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Discarded OutFlow Max=30.08 cfs @ 12.10 hrs HW=598.09' (Free Discharge)

↑**1=Exfiltration** (Controls 30.08 cfs)

Primary OutFlow Max=16.71 cfs @ 12.10 hrs HW=598.09' TW=594.41' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Weir Controls 16.71 cfs @ 2.11 fps)

Secondary OutFlow Max=42.81 cfs @ 12.10 hrs HW=598.09' TW=594.41' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Custom Controls 42.81 cfs)

Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3
 Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
 Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=0.08"
 Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=0.39 cfs 0.078 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=0.10"
 Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=0.57 cfs 0.099 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=0.07"
 Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=0.70 cfs 0.126 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=0.11"
 Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=0.66 cfs 0.113 af

Pond AP1: Adjacent Property Peak Elev=593.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
 Discarded=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond DP1: Peak Elev=588.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
 Discarded=0.00 cfs 0.000 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond SB: Peak Elev=595.00' Storage=0 cf Inflow=2.07 cfs 0.416 af
 Discarded=2.07 cfs 0.416 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=2.07 cfs 0.416 af

Total Runoff Area = 56.769 ac Runoff Volume = 0.416 af Average Runoff Depth = 0.09"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 90% Rainfall=1.00"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 0.39 cfs @ 12.27 hrs, Volume= 0.078 af, Depth= 0.08"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 90% Rainfall=1.00"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1
					Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2
					Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3
					Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4
					Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 0.57 cfs @ 12.27 hrs, Volume= 0.099 af, Depth= 0.10"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 90% Rainfall=1.00"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Type II 24-hr 90% Rainfall=1.00"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 0.70 cfs @ 12.13 hrs, Volume= 0.126 af, Depth= 0.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 90% Rainfall=1.00"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 0.66 cfs @ 12.32 hrs, Volume= 0.113 af, Depth= 0.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 90% Rainfall=1.00"

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Type II 24-hr 90% Rainfall=1.00"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.00" for 90% event
 Inflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 593.00' @ 0.01 hrs Surf.Area= 312 sf Storage= 0 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

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Type II 24-hr 90% Rainfall=1.00"

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Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑ **1=Exfiltration** (Passes 0.00 cfs of 2.17 cfs potential flow)**Secondary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑ **2=Special & User-Defined** (Controls 0.00 cfs)**Summary for Pond DP1:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.00" for 90% event
 Inflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Primary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 588.00' @ 0.01 hrs Surf.Area= 2,100 sf Storage= 0 cf

Flood Elev= 596.00' Surf.Area= 7,883 sf Storage= 23,996 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)

Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description		
#1	588.00'	23,996 cf	Vault/Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,100	200.0	0	0	2,100
594.00	2,100	200.0	12,600	12,600	3,300
594.01	3,776	235.0	29	12,629	4,512
595.00	5,647	338.0	4,633	17,262	9,217
596.00	7,883	350.0	6,734	23,996	9,958
Device	Routing	Invert	Outlet Devices		
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'		
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 1.00 16.00 17.00 Height (feet) 0.50 0.00 0.00 0.50		
#3	Secondary	595.50'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000		

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Type II 24-hr 90% Rainfall=1.00"

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Discarded OutFlow Max=0.00 cfs @ 0.01 hrs HW=588.00' (Free Discharge)↑**1=Exfiltration** (Passes 0.00 cfs of 14.58 cfs potential flow)**Primary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)↑**2=Asymmetrical Weir** (Controls 0.00 cfs)**Secondary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)↑**3=Special & User-Defined** (Controls 0.00 cfs)**Summary for Pond SB:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.09" for 90% event
 Inflow = 2.07 cfs @ 12.26 hrs, Volume= 0.416 af
 Outflow = 2.07 cfs @ 12.26 hrs, Volume= 0.416 af, Atten= 0%, Lag= 0.0 min
 Discarded = 2.07 cfs @ 12.26 hrs, Volume= 0.416 af
 Primary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 595.00' @ 0.01 hrs Surf.Area= 1,783 sf Storage= 0 cf

Flood Elev= 598.50' Surf.Area= 4,655 sf Storage= 11,027 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 0.0 min (961.0 - 961.0)

Volume	Invert	Avail.Storage	Storage Description		
#1	595.00'	11,027 cf	Stilling Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
595.00	1,783	231.0	0	0	1,783
596.00	2,519	254.0	2,140	2,140	2,703
597.00	3,332	280.0	2,916	5,056	3,840
598.00	4,200	299.0	3,758	8,814	4,762
598.50	4,655	308.0	2,213	11,027	5,222

Device	Routing	Invert	Outlet Devices
#1	Discarded	595.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	597.50'	Asymmetrical Weir, C= 3.27 Offset (feet) 0.00 3.00 13.00 16.00 Height (feet) 1.00 0.00 0.00 1.00
#3	Secondary	598.00'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 90% Rainfall=1.00"

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Discarded OutFlow Max=0.00 cfs @ 12.26 hrs HW=595.00' (Free Discharge)

↑**1=Exfiltration** (Passes 0.00 cfs of 12.38 cfs potential flow)

Primary OutFlow Max=0.00 cfs @ 0.01 hrs HW=595.00' TW=588.00' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=595.00' TW=588.00' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Controls 0.00 cfs)

Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=3.60"
Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=41.80 cfs 3.359 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=3.70"
Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=44.49 cfs 3.723 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=3.50"
Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=103.13 cfs 6.299 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=3.80"
Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=39.72 cfs 3.779 af

Pond AP1: Adjacent Property Peak Elev=595.03' Storage=15,287 cf Inflow=122.44 cfs 2.896 af
Discarded=104.94 cfs 2.865 af Secondary=15.59 cfs 0.032 af Outflow=120.53 cfs 2.896 af

Pond DP1: Peak Elev=595.72' Storage=21,909 cf Inflow=173.64 cfs 6.270 af
Discarded=51.14 cfs 3.376 af Primary=10.62 cfs 0.218 af Secondary=111.82 cfs 2.678 af Outflow=173.58 cfs 6.272 af

Pond SB: Peak Elev=598.29' Storage=10,080 cf Inflow=205.09 cfs 17.160 af
Discarded=31.42 cfs 10.890 af Primary=27.45 cfs 1.514 af Secondary=146.19 cfs 4.755 af Outflow=205.05 cfs 17.160 af

Total Runoff Area = 56.769 ac Runoff Volume = 17.160 af Average Runoff Depth = 3.63"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

Summary for Subcatchment 3S: Hoag Ln E

Runoff = 41.80 cfs @ 12.15 hrs, Volume= 3.359 af, Depth= 3.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
 Type II 24-hr 100 YR Rainfall=5.80"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1 Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2 Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 44.49 cfs @ 12.17 hrs, Volume= 3.723 af, Depth= 3.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
 Type II 24-hr 100 YR Rainfall=5.80"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Type II 24-hr 100 YR Rainfall=5.80"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 103.13 cfs @ 12.05 hrs, Volume= 6.299 af, Depth= 3.50"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100 YR Rainfall=5.80"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 39.72 cfs @ 12.24 hrs, Volume= 3.779 af, Depth= 3.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100 YR Rainfall=5.80"

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Type II 24-hr 100 YR Rainfall=5.80"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.61" for 100 YR event
 Inflow = 122.44 cfs @ 12.10 hrs, Volume= 2.896 af
 Outflow = 120.53 cfs @ 12.14 hrs, Volume= 2.896 af, Atten= 2%, Lag= 2.4 min
 Discarded = 104.94 cfs @ 12.14 hrs, Volume= 2.865 af
 Secondary = 15.59 cfs @ 12.14 hrs, Volume= 0.032 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 595.03' @ 12.14 hrs Surf.Area= 15,016 sf Storage= 15,287 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 1.9 min (731.1 - 729.2)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=104.94 cfs @ 12.14 hrs HW=595.03' (Free Discharge)
 ↑ **1=Exfiltration** (Controls 104.94 cfs)

Secondary OutFlow Max=14.43 cfs @ 12.14 hrs HW=595.03' (Free Discharge)
 ↑ **2=Special & User-Defined** (Custom Controls 14.43 cfs)

Summary for Pond DP1:

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 1.33" for 100 YR event
 Inflow = 173.64 cfs @ 12.10 hrs, Volume= 6.270 af
 Outflow = 173.58 cfs @ 12.10 hrs, Volume= 6.272 af, Atten= 0%, Lag= 0.2 min
 Discarded = 51.14 cfs @ 12.10 hrs, Volume= 3.376 af
 Primary = 10.62 cfs @ 12.10 hrs, Volume= 0.218 af
 Secondary = 111.82 cfs @ 12.10 hrs, Volume= 2.678 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 595.72' @ 12.10 hrs Surf.Area= 7,228 sf Storage= 21,909 cf
 Flood Elev= 596.00' Surf.Area= 7,883 sf Storage= 23,996 cf

Plug-Flow detention time= 3.9 min calculated for 6.269 af (100% of inflow)
 Center-of-Mass det. time= 3.9 min (735.2 - 731.3)

Volume	Invert	Avail.Storage	Storage Description		
#1	588.00'	23,996 cf	Vault/Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,100	200.0	0	0	2,100
594.00	2,100	200.0	12,600	12,600	3,300
594.01	3,776	235.0	29	12,629	4,512
595.00	5,647	338.0	4,633	17,262	9,217
596.00	7,883	350.0	6,734	23,996	9,958

Device	Routing	Invert	Outlet Devices
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 1.00 16.00 17.00 Height (feet) 0.50 0.00 0.00 0.50
#3	Secondary	595.50'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=51.13 cfs @ 12.10 hrs HW=595.72' (Free Discharge)
 ↑ **1=Exfiltration** (Controls 51.13 cfs)

Primary OutFlow Max=10.62 cfs @ 12.10 hrs HW=595.72' TW=594.87' (Dynamic Tailwater)
 ↑ **2=Asymmetrical Weir** (Weir Controls 10.62 cfs @ 1.49 fps)

Secondary OutFlow Max=111.79 cfs @ 12.10 hrs HW=595.72' TW=594.87' (Dynamic Tailwater)
 ↑ **3=Special & User-Defined** (Custom Controls 111.79 cfs)

Summary for Pond SB:

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 3.63" for 100 YR event
 Inflow = 205.09 cfs @ 12.10 hrs, Volume= 17.160 af
 Outflow = 205.05 cfs @ 12.10 hrs, Volume= 17.160 af, Atten= 0%, Lag= 0.1 min
 Discarded = 31.42 cfs @ 12.10 hrs, Volume= 10.890 af
 Primary = 27.45 cfs @ 12.10 hrs, Volume= 1.514 af
 Secondary = 146.19 cfs @ 12.10 hrs, Volume= 4.755 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 598.29' @ 12.10 hrs Surf.Area= 4,463 sf Storage= 10,080 cf
 Flood Elev= 598.50' Surf.Area= 4,655 sf Storage= 11,027 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 1.1 min (826.7 - 825.5)

Volume	Invert	Avail.Storage	Storage Description
#1	595.00'	11,027 cf	Stilling Basin (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
595.00	1,783	231.0	0	0	1,783
596.00	2,519	254.0	2,140	2,140	2,703
597.00	3,332	280.0	2,916	5,056	3,840
598.00	4,200	299.0	3,758	8,814	4,762
598.50	4,655	308.0	2,213	11,027	5,222

Device	Routing	Invert	Outlet Devices
#1	Discarded	595.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	597.50'	Asymmetrical Weir, C= 3.27 Offset (feet) 0.00 3.00 13.00 16.00 Height (feet) 1.00 0.00 0.00 1.00
#3	Secondary	598.00'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 100 YR Rainfall=5.80"

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Discarded OutFlow Max=31.41 cfs @ 12.10 hrs HW=598.29' (Free Discharge)

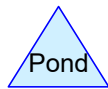
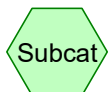
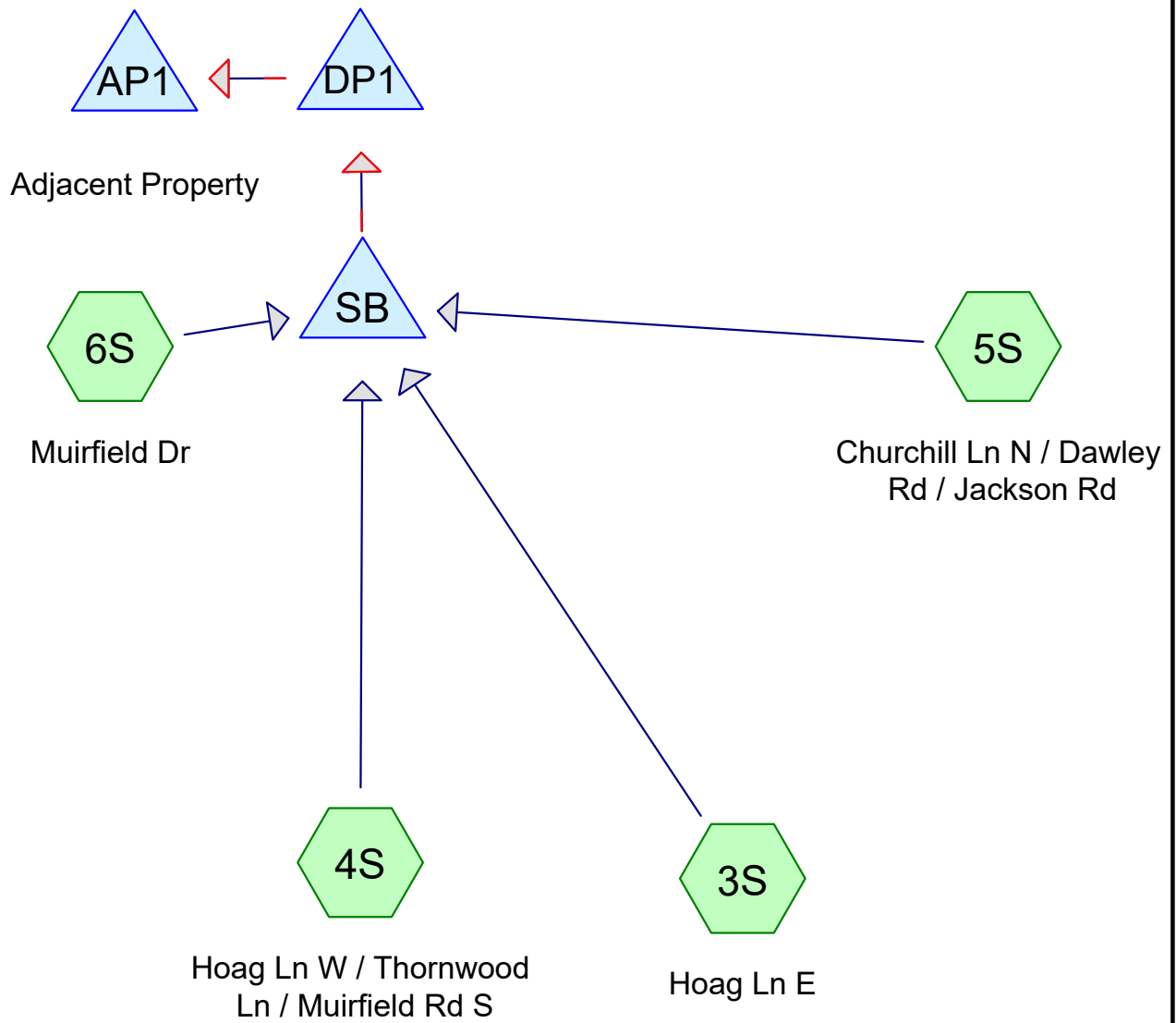
↑**1=Exfiltration** (Controls 31.41 cfs)

Primary OutFlow Max=27.44 cfs @ 12.10 hrs HW=598.29' TW=595.72' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Weir Controls 27.44 cfs @ 2.35 fps)

Secondary OutFlow Max=146.09 cfs @ 12.10 hrs HW=598.29' TW=595.72' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Custom Controls 146.09 cfs)



Routing Diagram for MJ1456.07_MODEL_POST_4

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
38.885	74	>75% Grass cover, Good, HSG C (3S, 4S, 5S, 6S)
3.904	80	>75% Grass cover, Good, HSG D (6S)
12.210	98	Paved parking/Roofs, HSG C (3S, 4S, 5S, 6S)
1.770	98	Paved parking/Roofs, HSG D (6S)
56.769	80	TOTAL AREA

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Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
51.096	HSG C	3S, 4S, 5S, 6S
5.674	HSG D	6S
0.000	Other	
56.769		TOTAL AREA

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Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	38.885	3.904	0.000	42.789	>75% Grass cover, Good	3S, 4S, 5S, 6S
0.000	0.000	12.210	1.770	0.000	13.980	Paved parking/Roofs	3S, 4S, 5S, 6S
0.000	0.000	51.096	5.674	0.000	56.769	TOTAL AREA	

Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=0.59"
Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=6.34 cfs 0.553 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=0.64"
Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=7.16 cfs 0.640 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=0.55"
Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=15.27 cfs 0.993 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=0.68"
Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=6.71 cfs 0.677 af

Pond AP1: Adjacent Property Peak Elev=593.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
Discarded=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond DP1: Peak Elev=588.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
Discarded=0.00 cfs 0.000 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond SB: Peak Elev=597.40' Storage=6,465 cf Inflow=30.89 cfs 2.864 af
Discarded=25.75 cfs 2.865 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=25.75 cfs 2.865 af

Total Runoff Area = 56.769 ac Runoff Volume = 2.864 af Average Runoff Depth = 0.61"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 1 YR Rainfall=2.05"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 6.34 cfs @ 12.17 hrs, Volume= 0.553 af, Depth= 0.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1 YR Rainfall=2.05"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1
					Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2
					Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3
					Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4
					Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 7.16 cfs @ 12.19 hrs, Volume= 0.640 af, Depth= 0.64"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1 YR Rainfall=2.05"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Type II 24-hr 1 YR Rainfall=2.05"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 15.27 cfs @ 12.07 hrs, Volume= 0.993 af, Depth= 0.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1 YR Rainfall=2.05"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 6.71 cfs @ 12.25 hrs, Volume= 0.677 af, Depth= 0.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1 YR Rainfall=2.05"

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Type II 24-hr 1 YR Rainfall=2.05"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.00" for 1 YR event
 Inflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 593.00' @ 0.01 hrs Surf.Area= 312 sf Storage= 0 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)
 ↑ **1=Exfiltration** (Passes 0.00 cfs of 2.17 cfs potential flow)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)
 ↑ **2=Special & User-Defined** (Controls 0.00 cfs)

Summary for Pond DP1:

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.00" for 1 YR event
 Inflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Primary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 588.00' @ 0.01 hrs Surf.Area= 2,602 sf Storage= 0 cf
 Flood Elev= 596.50' Surf.Area= 8,471 sf Storage= 33,359 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	588.00'	33,359 cf	Vault/Basin (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,602	214.0	0	0	2,602
594.00	2,602	214.0	15,612	15,612	3,886
594.01	5,857	299.0	41	15,653	7,356
595.00	6,782	318.0	6,251	21,904	8,338
596.00	7,939	350.0	7,353	29,257	10,071
596.50	8,471	359.0	4,102	33,359	10,609

Device	Routing	Invert	Outlet Devices
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 3.00 13.00 16.00 Height (feet) 1.00 0.00 0.00 1.00
#3	Secondary	596.00'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 1 YR Rainfall=2.05"

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Discarded OutFlow Max=0.00 cfs @ 0.01 hrs HW=588.00' (Free Discharge)↑**1=Exfiltration** (Passes 0.00 cfs of 18.07 cfs potential flow)**Primary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)↑**2=Asymmetrical Weir** (Controls 0.00 cfs)**Secondary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)↑**3=Special & User-Defined** (Controls 0.00 cfs)**Summary for Pond SB:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.61" for 1 YR event
 Inflow = 30.89 cfs @ 12.12 hrs, Volume= 2.864 af
 Outflow = 25.75 cfs @ 12.24 hrs, Volume= 2.865 af, Atten= 17%, Lag= 7.5 min
 Discarded = 25.75 cfs @ 12.24 hrs, Volume= 2.865 af
 Primary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 597.40' @ 12.24 hrs Surf.Area= 3,669 sf Storage= 6,465 cf

Flood Elev= 598.50' Surf.Area= 4,655 sf Storage= 11,027 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 1.3 min (879.7 - 878.4)

Volume	Invert	Avail.Storage	Storage Description		
#1	595.00'	11,027 cf	Vault/Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
595.00	1,783	231.0	0	0	1,783
596.00	2,519	254.0	2,140	2,140	2,703
597.00	3,332	280.0	2,916	5,056	3,840
598.00	4,200	299.0	3,758	8,814	4,762
598.50	4,655	308.0	2,213	11,027	5,222

Device	Routing	Invert	Outlet Devices
#1	Discarded	595.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	597.50'	Asymmetrical Weir, C= 3.27 Offset (feet) 0.00 3.00 13.00 16.00 Height (feet) 1.00 0.00 0.00 1.00
#3	Secondary	598.00'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 1 YR Rainfall=2.05"

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Discarded OutFlow Max=25.75 cfs @ 12.24 hrs HW=597.40' (Free Discharge)

↑**1=Exfiltration** (Controls 25.75 cfs)

Primary OutFlow Max=0.00 cfs @ 0.01 hrs HW=595.00' TW=588.00' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=595.00' TW=588.00' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Controls 0.00 cfs)

Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=0.81"
Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=9.02 cfs 0.759 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=0.86"
Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=10.03 cfs 0.870 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=0.76"
Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=21.84 cfs 1.375 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=0.92"
Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=9.29 cfs 0.912 af

Pond AP1: Adjacent Property Peak Elev=593.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
Discarded=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond DP1: Peak Elev=588.00' Storage=0 cf Inflow=12.73 cfs 0.187 af
Discarded=12.73 cfs 0.187 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=12.73 cfs 0.187 af

Pond SB: Peak Elev=597.99' Storage=8,792 cf Inflow=43.98 cfs 3.916 af
Discarded=29.50 cfs 3.729 af Primary=12.73 cfs 0.187 af Secondary=0.00 cfs 0.000 af Outflow=42.23 cfs 3.917 af

Total Runoff Area = 56.769 ac Runoff Volume = 3.916 af Average Runoff Depth = 0.83"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 2 YR Rainfall=2.39"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 9.02 cfs @ 12.17 hrs, Volume= 0.759 af, Depth= 0.81"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2 YR Rainfall=2.39"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1 Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2 Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 10.03 cfs @ 12.19 hrs, Volume= 0.870 af, Depth= 0.86"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2 YR Rainfall=2.39"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Type II 24-hr 2 YR Rainfall=2.39"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 21.84 cfs @ 12.06 hrs, Volume= 1.375 af, Depth= 0.76"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2 YR Rainfall=2.39"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 9.29 cfs @ 12.25 hrs, Volume= 0.912 af, Depth= 0.92"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2 YR Rainfall=2.39"

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Type II 24-hr 2 YR Rainfall=2.39"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.00" for 2 YR event
 Inflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 593.00' @ 0.01 hrs Surf.Area= 312 sf Storage= 0 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)
 ↑ **1=Exfiltration** (Passes 0.00 cfs of 2.17 cfs potential flow)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)
 ↑ **2=Special & User-Defined** (Controls 0.00 cfs)

Summary for Pond DP1:

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.04" for 2 YR event
 Inflow = 12.73 cfs @ 12.16 hrs, Volume= 0.187 af
 Outflow = 12.73 cfs @ 12.16 hrs, Volume= 0.187 af, Atten= 0%, Lag= 0.0 min
 Discarded = 12.73 cfs @ 12.16 hrs, Volume= 0.187 af
 Primary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 588.00' @ 12.16 hrs Surf.Area= 2,602 sf Storage= 0 cf
 Flood Elev= 596.50' Surf.Area= 8,471 sf Storage= 33,359 cf

Plug-Flow detention time= 0.0 min calculated for 0.187 af (100% of inflow)
 Center-of-Mass det. time= 0.0 min (732.2 - 732.2)

Volume	Invert	Avail.Storage	Storage Description
#1	588.00'	33,359 cf	Vault/Basin (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,602	214.0	0	0	2,602
594.00	2,602	214.0	15,612	15,612	3,886
594.01	5,857	299.0	41	15,653	7,356
595.00	6,782	318.0	6,251	21,904	8,338
596.00	7,939	350.0	7,353	29,257	10,071
596.50	8,471	359.0	4,102	33,359	10,609

Device	Routing	Invert	Outlet Devices
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 3.00 13.00 16.00 Height (feet) 1.00 0.00 0.00 1.00
#3	Secondary	596.00'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 2 YR Rainfall=2.39"

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Discarded OutFlow Max=18.07 cfs @ 12.16 hrs HW=588.00' (Free Discharge)↑**1=Exfiltration** (Controls 18.07 cfs)**Primary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)↑**2=Asymmetrical Weir** (Controls 0.00 cfs)**Secondary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)↑**3=Special & User-Defined** (Controls 0.00 cfs)**Summary for Pond SB:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.83" for 2 YR event
 Inflow = 43.98 cfs @ 12.11 hrs, Volume= 3.916 af
 Outflow = 42.23 cfs @ 12.16 hrs, Volume= 3.917 af, Atten= 4%, Lag= 3.0 min
 Discarded = 29.50 cfs @ 12.16 hrs, Volume= 3.729 af
 Primary = 12.73 cfs @ 12.16 hrs, Volume= 0.187 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 597.99' @ 12.16 hrs Surf.Area= 4,195 sf Storage= 8,792 cf

Flood Elev= 598.50' Surf.Area= 4,655 sf Storage= 11,027 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 1.6 min (870.1 - 868.5)

Volume	Invert	Avail.Storage	Storage Description		
#1	595.00'	11,027 cf	Vault/Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
595.00	1,783	231.0	0	0	1,783
596.00	2,519	254.0	2,140	2,140	2,703
597.00	3,332	280.0	2,916	5,056	3,840
598.00	4,200	299.0	3,758	8,814	4,762
598.50	4,655	308.0	2,213	11,027	5,222

Device	Routing	Invert	Outlet Devices
#1	Discarded	595.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	597.50'	Asymmetrical Weir, C= 3.27 Offset (feet) 0.00 3.00 13.00 16.00 Height (feet) 1.00 0.00 0.00 1.00
#3	Secondary	598.00'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 2 YR Rainfall=2.39"

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Discarded OutFlow Max=29.50 cfs @ 12.16 hrs HW=597.99' (Free Discharge)

↑**1=Exfiltration** (Controls 29.50 cfs)

Primary OutFlow Max=12.72 cfs @ 12.16 hrs HW=597.99' TW=588.00' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Weir Controls 12.72 cfs @ 1.98 fps)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=595.00' TW=588.00' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Controls 0.00 cfs)

Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=1.21"
Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=13.74 cfs 1.124 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=1.27"
Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=15.05 cfs 1.275 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=1.14"
Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=33.48 cfs 2.059 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=1.33"
Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=13.78 cfs 1.323 af

Pond AP1: Adjacent Property Peak Elev=593.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
Discarded=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond DP1: Peak Elev=592.38' Storage=11,406 cf Inflow=37.31 cfs 0.818 af
Discarded=18.57 cfs 0.821 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=18.57 cfs 0.821 af

Pond SB: Peak Elev=598.04' Storage=9,003 cf Inflow=67.15 cfs 5.781 af
Discarded=29.82 cfs 4.964 af Primary=14.87 cfs 0.461 af Secondary=22.44 cfs 0.357 af Outflow=67.13 cfs 5.782 af

Total Runoff Area = 56.769 ac Runoff Volume = 5.781 af Average Runoff Depth = 1.22"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 5 YR Rainfall=2.94"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 13.74 cfs @ 12.17 hrs, Volume= 1.124 af, Depth= 1.21"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 5 YR Rainfall=2.94"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1
					Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2
					Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3
					Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4
					Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 15.05 cfs @ 12.18 hrs, Volume= 1.275 af, Depth= 1.27"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 5 YR Rainfall=2.94"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Type II 24-hr 5 YR Rainfall=2.94"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 33.48 cfs @ 12.06 hrs, Volume= 2.059 af, Depth= 1.14"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 5 YR Rainfall=2.94"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 13.78 cfs @ 12.25 hrs, Volume= 1.323 af, Depth= 1.33"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 5 YR Rainfall=2.94"

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Type II 24-hr 5 YR Rainfall=2.94"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.00" for 5 YR event
 Inflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 593.00' @ 0.01 hrs Surf.Area= 312 sf Storage= 0 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

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Type II 24-hr 5 YR Rainfall=2.94"

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Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑ **1=Exfiltration** (Passes 0.00 cfs of 2.17 cfs potential flow)**Secondary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)↑ **2=Special & User-Defined** (Controls 0.00 cfs)**Summary for Pond DP1:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.17" for 5 YR event
 Inflow = 37.31 cfs @ 12.11 hrs, Volume= 0.818 af
 Outflow = 18.57 cfs @ 12.28 hrs, Volume= 0.821 af, Atten= 50%, Lag= 10.6 min
 Discarded = 18.57 cfs @ 12.28 hrs, Volume= 0.821 af
 Primary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 592.38' @ 12.28 hrs Surf.Area= 2,602 sf Storage= 11,406 cf

Flood Elev= 596.50' Surf.Area= 8,471 sf Storage= 33,359 cf

Plug-Flow detention time= 6.3 min calculated for 0.818 af (100% of inflow)

Center-of-Mass det. time= 6.3 min (737.3 - 731.0)

Volume	Invert	Avail.Storage	Storage Description
--------	--------	---------------	---------------------

#1	588.00'	33,359 cf	Vault/Basin (Irregular) Listed below (Recalc)
----	---------	-----------	--

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,602	214.0	0	0	2,602
594.00	2,602	214.0	15,612	15,612	3,886
594.01	5,857	299.0	41	15,653	7,356
595.00	6,782	318.0	6,251	21,904	8,338
596.00	7,939	350.0	7,353	29,257	10,071
596.50	8,471	359.0	4,102	33,359	10,609

Device	Routing	Invert	Outlet Devices
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#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 3.00 13.00 16.00 Height (feet) 1.00 0.00 0.00 1.00
#3	Secondary	596.00'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 5 YR Rainfall=2.94"

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Discarded OutFlow Max=18.57 cfs @ 12.28 hrs HW=592.38' (Free Discharge)↑**1=Exfiltration** (Controls 18.57 cfs)**Primary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)↑**2=Asymmetrical Weir** (Controls 0.00 cfs)**Secondary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)↑**3=Special & User-Defined** (Controls 0.00 cfs)**Summary for Pond SB:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 1.22" for 5 YR event
 Inflow = 67.15 cfs @ 12.10 hrs, Volume= 5.781 af
 Outflow = 67.13 cfs @ 12.11 hrs, Volume= 5.782 af, Atten= 0%, Lag= 0.2 min
 Discarded = 29.82 cfs @ 12.11 hrs, Volume= 4.964 af
 Primary = 14.87 cfs @ 12.11 hrs, Volume= 0.461 af
 Secondary = 22.44 cfs @ 12.11 hrs, Volume= 0.357 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 598.04' @ 12.11 hrs Surf.Area= 4,240 sf Storage= 9,003 cf

Flood Elev= 598.50' Surf.Area= 4,655 sf Storage= 11,027 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 1.5 min (858.4 - 856.8)

Volume	Invert	Avail.Storage	Storage Description		
#1	595.00'	11,027 cf	Vault/Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
595.00	1,783	231.0	0	0	1,783
596.00	2,519	254.0	2,140	2,140	2,703
597.00	3,332	280.0	2,916	5,056	3,840
598.00	4,200	299.0	3,758	8,814	4,762
598.50	4,655	308.0	2,213	11,027	5,222

Device	Routing	Invert	Outlet Devices
#1	Discarded	595.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	597.50'	Asymmetrical Weir, C= 3.27 Offset (feet) 0.00 3.00 13.00 16.00 Height (feet) 1.00 0.00 0.00 1.00
#3	Secondary	598.00'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 5 YR Rainfall=2.94"

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Discarded OutFlow Max=29.82 cfs @ 12.11 hrs HW=598.04' (Free Discharge)

↑**1=Exfiltration** (Controls 29.82 cfs)

Primary OutFlow Max=14.87 cfs @ 12.11 hrs HW=598.04' TW=589.68' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Weir Controls 14.87 cfs @ 2.06 fps)

Secondary OutFlow Max=22.41 cfs @ 12.11 hrs HW=598.04' TW=589.68' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Custom Controls 22.41 cfs)

Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=1.59"
Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=18.32 cfs 1.482 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=1.66"
Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=19.91 cfs 1.670 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=1.52"
Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=44.83 cfs 2.733 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=1.73"
Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=18.09 cfs 1.722 af

Pond AP1: Adjacent Property Peak Elev=593.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
Discarded=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond DP1: Peak Elev=594.55' Storage=18,955 cf Inflow=59.57 cfs 1.574 af
Discarded=44.95 cfs 1.575 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=44.95 cfs 1.575 af

Pond SB: Peak Elev=598.09' Storage=9,177 cf Inflow=89.68 cfs 7.607 af
Discarded=30.08 cfs 6.033 af Primary=16.72 cfs 0.654 af Secondary=42.86 cfs 0.920 af Outflow=89.65 cfs 7.607 af

Total Runoff Area = 56.769 ac Runoff Volume = 7.607 af Average Runoff Depth = 1.61"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 10 YR Rainfall=3.44"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 18.32 cfs @ 12.17 hrs, Volume= 1.482 af, Depth= 1.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10 YR Rainfall=3.44"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1
					Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2
					Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3
					Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4
					Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 19.91 cfs @ 12.18 hrs, Volume= 1.670 af, Depth= 1.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10 YR Rainfall=3.44"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 44.83 cfs @ 12.06 hrs, Volume= 2.733 af, Depth= 1.52"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10 YR Rainfall=3.44"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 18.09 cfs @ 12.25 hrs, Volume= 1.722 af, Depth= 1.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10 YR Rainfall=3.44"

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Type II 24-hr 10 YR Rainfall=3.44"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.00" for 10 YR event
 Inflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 593.00' @ 0.01 hrs Surf.Area= 312 sf Storage= 0 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)
 ↑ **1=Exfiltration** (Passes 0.00 cfs of 2.17 cfs potential flow)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)
 ↑ **2=Special & User-Defined** (Controls 0.00 cfs)

Summary for Pond DP1:

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.33" for 10 YR event
 Inflow = 59.57 cfs @ 12.10 hrs, Volume= 1.574 af
 Outflow = 44.95 cfs @ 12.22 hrs, Volume= 1.575 af, Atten= 25%, Lag= 6.9 min
 Discarded = 44.95 cfs @ 12.22 hrs, Volume= 1.575 af
 Primary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 594.55' @ 12.22 hrs Surf.Area= 6,354 sf Storage= 18,955 cf
 Flood Elev= 596.50' Surf.Area= 8,471 sf Storage= 33,359 cf

Plug-Flow detention time= 7.4 min calculated for 1.574 af (100% of inflow)
 Center-of-Mass det. time= 7.5 min (738.3 - 730.9)

Volume	Invert	Avail.Storage	Storage Description
#1	588.00'	33,359 cf	Vault/Basin (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,602	214.0	0	0	2,602
594.00	2,602	214.0	15,612	15,612	3,886
594.01	5,857	299.0	41	15,653	7,356
595.00	6,782	318.0	6,251	21,904	8,338
596.00	7,939	350.0	7,353	29,257	10,071
596.50	8,471	359.0	4,102	33,359	10,609

Device	Routing	Invert	Outlet Devices
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 3.00 13.00 16.00 Height (feet) 1.00 0.00 0.00 1.00
#3	Secondary	596.00'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 10 YR Rainfall=3.44"

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Discarded OutFlow Max=44.95 cfs @ 12.22 hrs HW=594.55' (Free Discharge)↑ **1=Exfiltration** (Controls 44.95 cfs)**Primary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)↑ **2=Asymmetrical Weir** (Controls 0.00 cfs)**Secondary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)↑ **3=Special & User-Defined** (Controls 0.00 cfs)**Summary for Pond SB:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 1.61" for 10 YR event
 Inflow = 89.68 cfs @ 12.10 hrs, Volume= 7.607 af
 Outflow = 89.65 cfs @ 12.10 hrs, Volume= 7.607 af, Atten= 0%, Lag= 0.1 min
 Discarded = 30.08 cfs @ 12.10 hrs, Volume= 6.033 af
 Primary = 16.72 cfs @ 12.10 hrs, Volume= 0.654 af
 Secondary = 42.86 cfs @ 12.10 hrs, Volume= 0.920 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 598.09' @ 12.10 hrs Surf.Area= 4,276 sf Storage= 9,177 cf

Flood Elev= 598.50' Surf.Area= 4,655 sf Storage= 11,027 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 1.4 min (850.3 - 848.9)

Volume	Invert	Avail.Storage	Storage Description		
#1	595.00'	11,027 cf	Vault/Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
595.00	1,783	231.0	0	0	1,783
596.00	2,519	254.0	2,140	2,140	2,703
597.00	3,332	280.0	2,916	5,056	3,840
598.00	4,200	299.0	3,758	8,814	4,762
598.50	4,655	308.0	2,213	11,027	5,222

Device	Routing	Invert	Outlet Devices
#1	Discarded	595.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	597.50'	Asymmetrical Weir, C= 3.27 Offset (feet) 0.00 3.00 13.00 16.00 Height (feet) 1.00 0.00 0.00 1.00
#3	Secondary	598.00'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Discarded OutFlow Max=30.08 cfs @ 12.10 hrs HW=598.09' (Free Discharge)

↑**1=Exfiltration** (Controls 30.08 cfs)

Primary OutFlow Max=16.71 cfs @ 12.10 hrs HW=598.09' TW=593.27' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Weir Controls 16.71 cfs @ 2.11 fps)

Secondary OutFlow Max=42.81 cfs @ 12.10 hrs HW=598.09' TW=593.27' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Custom Controls 42.81 cfs)

Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3
 Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
 Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=2.23"
 Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=25.93 cfs 2.083 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=2.32"
 Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=27.92 cfs 2.329 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=2.15"
 Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=63.73 cfs 3.871 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=2.40"
 Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=25.17 cfs 2.385 af

Pond AP1: Adjacent Property Peak Elev=593.66' Storage=1,337 cf Inflow=36.77 cfs 0.366 af
 Discarded=31.81 cfs 0.366 af Secondary=0.00 cfs 0.000 af Outflow=31.81 cfs 0.366 af

Pond DP1: Peak Elev=596.02' Storage=29,387 cf Inflow=96.57 cfs 2.985 af
 Discarded=56.52 cfs 2.622 af Primary=27.27 cfs 0.341 af Secondary=9.16 cfs 0.025 af Outflow=93.32 cfs 2.988 af

Pond SB: Peak Elev=598.15' Storage=9,468 cf Inflow=127.12 cfs 10.668 af
 Discarded=30.51 cfs 7.683 af Primary=19.97 cfs 0.942 af Secondary=76.60 cfs 2.043 af Outflow=127.08 cfs 10.668 af

Total Runoff Area = 56.769 ac Runoff Volume = 10.668 af Average Runoff Depth = 2.26"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 25 YR Rainfall=4.23"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 25.93 cfs @ 12.15 hrs, Volume= 2.083 af, Depth= 2.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 25 YR Rainfall=4.23"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1
					Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2
					Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3
					Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4
					Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 27.92 cfs @ 12.18 hrs, Volume= 2.329 af, Depth= 2.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 25 YR Rainfall=4.23"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Type II 24-hr 25 YR Rainfall=4.23"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 63.73 cfs @ 12.05 hrs, Volume= 3.871 af, Depth= 2.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 25 YR Rainfall=4.23"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 25.17 cfs @ 12.25 hrs, Volume= 2.385 af, Depth= 2.40"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 25 YR Rainfall=4.23"

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Type II 24-hr 25 YR Rainfall=4.23"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.08" for 25 YR event
 Inflow = 36.77 cfs @ 12.14 hrs, Volume= 0.366 af
 Outflow = 31.81 cfs @ 12.17 hrs, Volume= 0.366 af, Atten= 13%, Lag= 1.4 min
 Discarded = 31.81 cfs @ 12.17 hrs, Volume= 0.366 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 593.66' @ 12.17 hrs Surf.Area= 4,573 sf Storage= 1,337 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 0.6 min (732.2 - 731.6)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=31.71 cfs @ 12.17 hrs HW=593.66' (Free Discharge)
 ↑ **1=Exfiltration** (Controls 31.71 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)
 ↑ **2=Special & User-Defined** (Controls 0.00 cfs)

Summary for Pond DP1:

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.63" for 25 YR event
 Inflow = 96.57 cfs @ 12.10 hrs, Volume= 2.985 af
 Outflow = 93.32 cfs @ 12.14 hrs, Volume= 2.988 af, Atten= 3%, Lag= 2.7 min
 Discarded = 56.52 cfs @ 12.14 hrs, Volume= 2.622 af
 Primary = 27.27 cfs @ 12.14 hrs, Volume= 0.341 af
 Secondary = 9.16 cfs @ 12.14 hrs, Volume= 0.025 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 596.02' @ 12.14 hrs Surf.Area= 7,956 sf Storage= 29,387 cf
 Flood Elev= 596.50' Surf.Area= 8,471 sf Storage= 33,359 cf

Plug-Flow detention time= 6.9 min calculated for 2.985 af (100% of inflow)
 Center-of-Mass det. time= 7.0 min (737.9 - 730.9)

Volume	Invert	Avail.Storage	Storage Description
#1	588.00'	33,359 cf	Vault/Basin (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,602	214.0	0	0	2,602
594.00	2,602	214.0	15,612	15,612	3,886
594.01	5,857	299.0	41	15,653	7,356
595.00	6,782	318.0	6,251	21,904	8,338
596.00	7,939	350.0	7,353	29,257	10,071
596.50	8,471	359.0	4,102	33,359	10,609

Device	Routing	Invert	Outlet Devices
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 3.00 13.00 16.00 Height (feet) 1.00 0.00 0.00 1.00
#3	Secondary	596.00'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 25 YR Rainfall=4.23"

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Discarded OutFlow Max=56.52 cfs @ 12.14 hrs HW=596.02' (Free Discharge)↑**1=Exfiltration** (Controls 56.52 cfs)**Primary OutFlow** Max=27.27 cfs @ 12.14 hrs HW=596.02' TW=593.54' (Dynamic Tailwater)↑**2=Asymmetrical Weir** (Weir Controls 27.27 cfs @ 2.02 fps)**Secondary OutFlow** Max=8.13 cfs @ 12.14 hrs HW=596.02' TW=593.58' (Dynamic Tailwater)↑**3=Special & User-Defined** (Custom Controls 8.13 cfs)**Summary for Pond SB:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 2.26" for 25 YR event
 Inflow = 127.12 cfs @ 12.10 hrs, Volume= 10.668 af
 Outflow = 127.08 cfs @ 12.10 hrs, Volume= 10.668 af, Atten= 0%, Lag= 0.1 min
 Discarded = 30.51 cfs @ 12.10 hrs, Volume= 7.683 af
 Primary = 19.97 cfs @ 12.10 hrs, Volume= 0.942 af
 Secondary = 76.60 cfs @ 12.10 hrs, Volume= 2.043 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 598.15' @ 12.10 hrs Surf.Area= 4,337 sf Storage= 9,468 cf

Flood Elev= 598.50' Surf.Area= 4,655 sf Storage= 11,027 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 1.3 min (840.4 - 839.1)

Volume	Invert	Avail.Storage	Storage Description		
#1	595.00'	11,027 cf	Vault/Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
595.00	1,783	231.0	0	0	1,783
596.00	2,519	254.0	2,140	2,140	2,703
597.00	3,332	280.0	2,916	5,056	3,840
598.00	4,200	299.0	3,758	8,814	4,762
598.50	4,655	308.0	2,213	11,027	5,222

Device	Routing	Invert	Outlet Devices
#1	Discarded	595.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	597.50'	Asymmetrical Weir, C= 3.27 Offset (feet) 0.00 3.00 13.00 16.00 Height (feet) 1.00 0.00 0.00 1.00
#3	Secondary	598.00'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 25 YR Rainfall=4.23"

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Discarded OutFlow Max=30.51 cfs @ 12.10 hrs HW=598.15' (Free Discharge)

↑**1=Exfiltration** (Controls 30.51 cfs)

Primary OutFlow Max=19.97 cfs @ 12.10 hrs HW=598.15' TW=595.62' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Weir Controls 19.97 cfs @ 2.20 fps)

Secondary OutFlow Max=76.59 cfs @ 12.10 hrs HW=598.15' TW=595.62' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Custom Controls 76.59 cfs)

Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=2.85"
Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=33.13 cfs 2.658 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=2.94"
Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=35.45 cfs 2.958 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=2.76"
Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=81.59 cfs 4.962 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=3.03"
Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=31.78 cfs 3.015 af

Pond AP1: Adjacent Property Peak Elev=594.17' Storage=5,124 cf Inflow=74.41 cfs 1.230 af
Discarded=67.37 cfs 1.230 af Secondary=0.00 cfs 0.000 af Outflow=67.37 cfs 1.230 af

Pond DP1: Peak Elev=596.08' Storage=29,916 cf Inflow=131.51 cfs 4.429 af
Discarded=57.03 cfs 3.201 af Primary=33.14 cfs 0.733 af Secondary=41.27 cfs 0.497 af Outflow=131.44 cfs 4.431 af

Pond SB: Peak Elev=598.22' Storage=9,745 cf Inflow=162.48 cfs 13.593 af
Discarded=30.92 cfs 9.164 af Primary=23.24 cfs 1.201 af Secondary=108.27 cfs 3.228 af Outflow=162.43 cfs 13.593 af

Total Runoff Area = 56.769 ac Runoff Volume = 13.593 af Average Runoff Depth = 2.87"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 50 YR Rainfall=4.95"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 33.13 cfs @ 12.15 hrs, Volume= 2.658 af, Depth= 2.85"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 50 YR Rainfall=4.95"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1
					Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2
					Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3
					Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4
					Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 35.45 cfs @ 12.18 hrs, Volume= 2.958 af, Depth= 2.94"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 50 YR Rainfall=4.95"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Type II 24-hr 50 YR Rainfall=4.95"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 81.59 cfs @ 12.05 hrs, Volume= 4.962 af, Depth= 2.76"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 50 YR Rainfall=4.95"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 31.78 cfs @ 12.24 hrs, Volume= 3.015 af, Depth= 3.03"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 50 YR Rainfall=4.95"

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Type II 24-hr 50 YR Rainfall=4.95"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.26" for 50 YR event
 Inflow = 74.41 cfs @ 12.10 hrs, Volume= 1.230 af
 Outflow = 67.37 cfs @ 12.15 hrs, Volume= 1.230 af, Atten= 9%, Lag= 3.0 min
 Discarded = 67.37 cfs @ 12.15 hrs, Volume= 1.230 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 594.17' @ 12.15 hrs Surf.Area= 9,671 sf Storage= 5,124 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 1.0 min (731.3 - 730.3)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=67.35 cfs @ 12.15 hrs HW=594.17' (Free Discharge)
 ↑ **1=Exfiltration** (Controls 67.35 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)
 ↑ **2=Special & User-Defined** (Controls 0.00 cfs)

Summary for Pond DP1:

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.94" for 50 YR event
 Inflow = 131.51 cfs @ 12.10 hrs, Volume= 4.429 af
 Outflow = 131.44 cfs @ 12.10 hrs, Volume= 4.431 af, Atten= 0%, Lag= 0.2 min
 Discarded = 57.03 cfs @ 12.10 hrs, Volume= 3.201 af
 Primary = 33.14 cfs @ 12.10 hrs, Volume= 0.733 af
 Secondary = 41.27 cfs @ 12.10 hrs, Volume= 0.497 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 596.08' @ 12.10 hrs Surf.Area= 8,026 sf Storage= 29,916 cf
 Flood Elev= 596.50' Surf.Area= 8,471 sf Storage= 33,359 cf

Plug-Flow detention time= 5.8 min calculated for 4.428 af (100% of inflow)
 Center-of-Mass det. time= 5.8 min (736.9 - 731.1)

Volume	Invert	Avail.Storage	Storage Description
#1	588.00'	33,359 cf	Vault/Basin (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,602	214.0	0	0	2,602
594.00	2,602	214.0	15,612	15,612	3,886
594.01	5,857	299.0	41	15,653	7,356
595.00	6,782	318.0	6,251	21,904	8,338
596.00	7,939	350.0	7,353	29,257	10,071
596.50	8,471	359.0	4,102	33,359	10,609

Device	Routing	Invert	Outlet Devices
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 3.00 13.00 16.00 Height (feet) 1.00 0.00 0.00 1.00
#3	Secondary	596.00'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 50 YR Rainfall=4.95"

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Discarded OutFlow Max=57.03 cfs @ 12.10 hrs HW=596.08' (Free Discharge)↑**1=Exfiltration** (Controls 57.03 cfs)**Primary OutFlow** Max=33.14 cfs @ 12.10 hrs HW=596.08' TW=594.05' (Dynamic Tailwater)↑**2=Asymmetrical Weir** (Weir Controls 33.14 cfs @ 2.11 fps)**Secondary OutFlow** Max=41.24 cfs @ 12.10 hrs HW=596.08' TW=594.05' (Dynamic Tailwater)↑**3=Special & User-Defined** (Custom Controls 41.24 cfs)**Summary for Pond SB:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 2.87" for 50 YR event
 Inflow = 162.48 cfs @ 12.10 hrs, Volume= 13.593 af
 Outflow = 162.43 cfs @ 12.10 hrs, Volume= 13.593 af, Atten= 0%, Lag= 0.1 min
 Discarded = 30.92 cfs @ 12.10 hrs, Volume= 9.164 af
 Primary = 23.24 cfs @ 12.10 hrs, Volume= 1.201 af
 Secondary = 108.27 cfs @ 12.10 hrs, Volume= 3.228 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 598.22' @ 12.10 hrs Surf.Area= 4,394 sf Storage= 9,745 cf

Flood Elev= 598.50' Surf.Area= 4,655 sf Storage= 11,027 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 1.2 min (833.4 - 832.2)

Volume	Invert	Avail.Storage	Storage Description		
#1	595.00'	11,027 cf	Vault/Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
595.00	1,783	231.0	0	0	1,783
596.00	2,519	254.0	2,140	2,140	2,703
597.00	3,332	280.0	2,916	5,056	3,840
598.00	4,200	299.0	3,758	8,814	4,762
598.50	4,655	308.0	2,213	11,027	5,222

Device	Routing	Invert	Outlet Devices
#1	Discarded	595.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	597.50'	Asymmetrical Weir, C= 3.27 Offset (feet) 0.00 3.00 13.00 16.00 Height (feet) 1.00 0.00 0.00 1.00
#3	Secondary	598.00'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 50 YR Rainfall=4.95"

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Discarded OutFlow Max=30.92 cfs @ 12.10 hrs HW=598.22' (Free Discharge)

↑**1=Exfiltration** (Controls 30.92 cfs)

Primary OutFlow Max=23.24 cfs @ 12.10 hrs HW=598.22' TW=596.08' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Weir Controls 23.24 cfs @ 2.27 fps)

Secondary OutFlow Max=108.22 cfs @ 12.10 hrs HW=598.22' TW=596.08' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Custom Controls 108.22 cfs)

Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3
 Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
 Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=0.08"
 Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=0.39 cfs 0.078 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=0.10"
 Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=0.57 cfs 0.099 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=0.07"
 Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=0.70 cfs 0.126 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=0.11"
 Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=0.66 cfs 0.113 af

Pond AP1: Adjacent Property Peak Elev=593.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
 Discarded=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond DP1: Peak Elev=588.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
 Discarded=0.00 cfs 0.000 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond SB: Peak Elev=595.00' Storage=0 cf Inflow=2.07 cfs 0.416 af
 Discarded=2.07 cfs 0.416 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=2.07 cfs 0.416 af

Total Runoff Area = 56.769 ac Runoff Volume = 0.416 af Average Runoff Depth = 0.09"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 90% Rainfall=1.00"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 0.39 cfs @ 12.27 hrs, Volume= 0.078 af, Depth= 0.08"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 90% Rainfall=1.00"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1 Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2 Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 0.57 cfs @ 12.27 hrs, Volume= 0.099 af, Depth= 0.10"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 90% Rainfall=1.00"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Type II 24-hr 90% Rainfall=1.00"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 0.70 cfs @ 12.13 hrs, Volume= 0.126 af, Depth= 0.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 90% Rainfall=1.00"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 0.66 cfs @ 12.32 hrs, Volume= 0.113 af, Depth= 0.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 90% Rainfall=1.00"

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Type II 24-hr 90% Rainfall=1.00"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.00" for 90% event
 Inflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 593.00' @ 0.01 hrs Surf.Area= 312 sf Storage= 0 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)
 ↑ **1=Exfiltration** (Passes 0.00 cfs of 2.17 cfs potential flow)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)
 ↑ **2=Special & User-Defined** (Controls 0.00 cfs)

Summary for Pond DP1:

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.00" for 90% event
 Inflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Primary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 588.00' @ 0.01 hrs Surf.Area= 2,602 sf Storage= 0 cf
 Flood Elev= 596.50' Surf.Area= 8,471 sf Storage= 33,359 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	588.00'	33,359 cf	Vault/Basin (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,602	214.0	0	0	2,602
594.00	2,602	214.0	15,612	15,612	3,886
594.01	5,857	299.0	41	15,653	7,356
595.00	6,782	318.0	6,251	21,904	8,338
596.00	7,939	350.0	7,353	29,257	10,071
596.50	8,471	359.0	4,102	33,359	10,609

Device	Routing	Invert	Outlet Devices
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 3.00 13.00 16.00 Height (feet) 1.00 0.00 0.00 1.00
#3	Secondary	596.00'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 90% Rainfall=1.00"

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Discarded OutFlow Max=0.00 cfs @ 0.01 hrs HW=588.00' (Free Discharge)↑**1=Exfiltration** (Passes 0.00 cfs of 18.07 cfs potential flow)**Primary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)↑**2=Asymmetrical Weir** (Controls 0.00 cfs)**Secondary OutFlow** Max=0.00 cfs @ 0.01 hrs HW=588.00' TW=593.00' (Dynamic Tailwater)↑**3=Special & User-Defined** (Controls 0.00 cfs)**Summary for Pond SB:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.09" for 90% event
 Inflow = 2.07 cfs @ 12.26 hrs, Volume= 0.416 af
 Outflow = 2.07 cfs @ 12.26 hrs, Volume= 0.416 af, Atten= 0%, Lag= 0.0 min
 Discarded = 2.07 cfs @ 12.26 hrs, Volume= 0.416 af
 Primary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 595.00' @ 0.01 hrs Surf.Area= 1,783 sf Storage= 0 cf

Flood Elev= 598.50' Surf.Area= 4,655 sf Storage= 11,027 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 0.0 min (961.0 - 961.0)

Volume	Invert	Avail.Storage	Storage Description		
#1	595.00'	11,027 cf	Vault/Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
595.00	1,783	231.0	0	0	1,783
596.00	2,519	254.0	2,140	2,140	2,703
597.00	3,332	280.0	2,916	5,056	3,840
598.00	4,200	299.0	3,758	8,814	4,762
598.50	4,655	308.0	2,213	11,027	5,222

Device	Routing	Invert	Outlet Devices
#1	Discarded	595.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	597.50'	Asymmetrical Weir, C= 3.27 Offset (feet) 0.00 3.00 13.00 16.00 Height (feet) 1.00 0.00 0.00 1.00
#3	Secondary	598.00'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 90% Rainfall=1.00"

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Discarded OutFlow Max=0.00 cfs @ 12.26 hrs HW=595.00' (Free Discharge)

↑**1=Exfiltration** (Passes 0.00 cfs of 12.38 cfs potential flow)

Primary OutFlow Max=0.00 cfs @ 0.01 hrs HW=595.00' TW=588.00' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=595.00' TW=588.00' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Controls 0.00 cfs)

Time span=0.01-72.00 hrs, dt=0.01 hrs, 7200 points x 3
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment3S: Hoag Ln E Runoff Area=487,543 sf 23.00% Impervious Runoff Depth=3.60"
Flow Length=1,370' Slope=0.0650 '/' Tc=22.5 min CN=80 Runoff=41.80 cfs 3.359 af

Subcatchment4S: Hoag Ln W / Runoff Area=525,701 sf 29.76% Impervious Runoff Depth=3.70"
Flow Length=950' Slope=0.0190 '/' Tc=24.0 min CN=81 Runoff=44.49 cfs 3.723 af

Subcatchment5S: Churchill Ln N / Runoff Area=940,277 sf 22.12% Impervious Runoff Depth=3.50"
Flow Length=1,455' Slope=0.0530 '/' Tc=13.3 min CN=79 Runoff=103.13 cfs 6.299 af

Subcatchment6S: Muirfield Dr Runoff Area=519,341 sf 25.50% Impervious Runoff Depth=3.80"
Flow Length=1,460' Slope=0.0160 '/' Tc=29.4 min CN=82 Runoff=39.72 cfs 3.779 af

Pond AP1: Adjacent Property Peak Elev=594.93' Storage=14,312 cf Inflow=116.01 cfs 2.487 af
Discarded=101.63 cfs 2.487 af Secondary=0.00 cfs 0.000 af Outflow=101.63 cfs 2.487 af

Pond DP1: Peak Elev=596.15' Storage=30,478 cf Inflow=173.64 cfs 6.270 af
Discarded=57.56 cfs 3.786 af Primary=39.85 cfs 1.129 af Secondary=76.16 cfs 1.358 af Outflow=173.57 cfs 6.273 af

Pond SB: Peak Elev=598.29' Storage=10,080 cf Inflow=205.09 cfs 17.160 af
Discarded=31.42 cfs 10.890 af Primary=27.45 cfs 1.514 af Secondary=146.19 cfs 4.755 af Outflow=205.05 cfs 17.160 af

Total Runoff Area = 56.769 ac Runoff Volume = 17.160 af Average Runoff Depth = 3.63"
75.37% Pervious = 42.789 ac 24.63% Impervious = 13.980 ac

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Type II 24-hr 100 YR Rainfall=5.80"

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Summary for Subcatchment 3S: Hoag Ln E

Runoff = 41.80 cfs @ 12.15 hrs, Volume= 3.359 af, Depth= 3.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100 YR Rainfall=5.80"

Area (sf)	CN	Description
375,419	74	>75% Grass cover, Good, HSG C
112,124	98	Paved parking/Roofs, HSG C
487,543	80	Weighted Average
375,419		77.00% Pervious Area
112,124		23.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	100	0.0650	0.11		Sheet Flow, 1
					Woods: Light underbrush n= 0.400 P2= 2.39"
3.0	230	0.0650	1.27		Shallow Concentrated Flow, 2
					Woodland Kv= 5.0 fps
3.0	740	0.0650	4.10		Shallow Concentrated Flow, 3
					Unpaved Kv= 16.1 fps
1.0	300	0.0650	5.18		Shallow Concentrated Flow, 4
					Paved Kv= 20.3 fps
22.5	1,370	Total			

Summary for Subcatchment 4S: Hoag Ln W / Thornwood Ln / Muirfield Rd S

Runoff = 44.49 cfs @ 12.17 hrs, Volume= 3.723 af, Depth= 3.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100 YR Rainfall=5.80"

Area (sf)	CN	Description
369,278	74	>75% Grass cover, Good, HSG C
* 156,423	98	Paved parking/Roofs, HSG C
525,701	81	Weighted Average
369,278		70.24% Pervious Area
156,423		29.76% Impervious Area

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Type II 24-hr 100 YR Rainfall=5.80"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	80	0.0190	0.14		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.0	20	0.0190	0.05		Sheet Flow, 2 Woods: Light underbrush n= 0.400 P2= 2.39"
4.7	630	0.0190	2.22		Shallow Concentrated Flow, 3 Unpaved Kv= 16.1 fps
1.7	70	0.0190	0.69		Shallow Concentrated Flow, 4 Woodland Kv= 5.0 fps
0.9	150	0.0190	2.80		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
24.0	950	Total			

Summary for Subcatchment 5S: Churchill Ln N / Dawley Rd / Jackson Rd

Runoff = 103.13 cfs @ 12.05 hrs, Volume= 6.299 af, Depth= 3.50"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100 YR Rainfall=5.80"

Area (sf)	CN	Description
732,281	74	>75% Grass cover, Good, HSG C
207,996	98	Paved parking/Roofs, HSG C
940,277	79	Weighted Average
732,281		77.88% Pervious Area
207,996		22.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0530	0.22		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
4.0	900	0.0530	3.71		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
1.6	455	0.0530	4.67		Shallow Concentrated Flow, 3 Paved Kv= 20.3 fps
13.3	1,455	Total			

Summary for Subcatchment 6S: Muirfield Dr

Runoff = 39.72 cfs @ 12.24 hrs, Volume= 3.779 af, Depth= 3.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100 YR Rainfall=5.80"

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Type II 24-hr 100 YR Rainfall=5.80"

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Area (sf)	CN	Description
216,867	74	>75% Grass cover, Good, HSG C
55,333	98	Paved parking/Roofs, HSG C
170,049	80	>75% Grass cover, Good, HSG D
77,092	98	Paved parking/Roofs, HSG D
519,341	82	Weighted Average
386,916		74.50% Pervious Area
132,425		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.4	100	0.0160	0.13		Sheet Flow, 1 Grass: Short n= 0.150 P2= 2.39"
7.8	950	0.0160	2.04		Shallow Concentrated Flow, 2 Unpaved Kv= 16.1 fps
8.7	330	0.0160	0.63		Shallow Concentrated Flow, 3 Woodland Kv= 5.0 fps
0.5	80	0.0160	2.57		Shallow Concentrated Flow, 4 Paved Kv= 20.3 fps
29.4	1,460	Total			

Summary for Pond AP1: Adjacent Property

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 0.53" for 100 YR event
 Inflow = 116.01 cfs @ 12.10 hrs, Volume= 2.487 af
 Outflow = 101.63 cfs @ 12.16 hrs, Volume= 2.487 af, Atten= 12%, Lag= 3.9 min
 Discarded = 101.63 cfs @ 12.16 hrs, Volume= 2.487 af
 Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 594.93' @ 12.16 hrs Surf.Area= 14,549 sf Storage= 14,312 cf
 Flood Elev= 595.00' Surf.Area= 15,016 sf Storage= 15,287 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 1.8 min (731.7 - 729.9)

Volume	Invert	Avail.Storage	Storage Description
#1	593.00'	15,287 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
593.00	312	131.0	0	0	312
594.00	8,720	469.0	3,560	3,560	16,453
595.00	15,016	596.0	11,726	15,287	27,230

Device	Routing	Invert	Outlet Devices
#1	Discarded	593.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Secondary	595.00'	Special & User-Defined Head (feet) 0.00 1.00

Disch. (cfs) 0.000 500.000

Discarded OutFlow Max=101.58 cfs @ 12.16 hrs HW=594.93' (Free Discharge)
 ↑ **1=Exfiltration** (Controls 101.58 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=593.00' (Free Discharge)
 ↑ **2=Special & User-Defined** (Controls 0.00 cfs)

Summary for Pond DP1:

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 1.33" for 100 YR event
 Inflow = 173.64 cfs @ 12.10 hrs, Volume= 6.270 af
 Outflow = 173.57 cfs @ 12.10 hrs, Volume= 6.273 af, Atten= 0%, Lag= 0.2 min
 Discarded = 57.56 cfs @ 12.10 hrs, Volume= 3.786 af
 Primary = 39.85 cfs @ 12.10 hrs, Volume= 1.129 af
 Secondary = 76.16 cfs @ 12.10 hrs, Volume= 1.358 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 596.15' @ 12.10 hrs Surf.Area= 8,099 sf Storage= 30,478 cf
 Flood Elev= 596.50' Surf.Area= 8,471 sf Storage= 33,359 cf

Plug-Flow detention time= 4.9 min calculated for 6.269 af (100% of inflow)
 Center-of-Mass det. time= 5.0 min (736.2 - 731.3)

Volume	Invert	Avail.Storage	Storage Description
#1	588.00'	33,359 cf	Vault/Basin (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
588.00	2,602	214.0	0	0	2,602
594.00	2,602	214.0	15,612	15,612	3,886
594.01	5,857	299.0	41	15,653	7,356
595.00	6,782	318.0	6,251	21,904	8,338
596.00	7,939	350.0	7,353	29,257	10,071
596.50	8,471	359.0	4,102	33,359	10,609

Device	Routing	Invert	Outlet Devices
#1	Discarded	588.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	595.50'	Asymmetrical Weir X 2.00, C= 3.27 Offset (feet) 0.00 3.00 13.00 16.00 Height (feet) 1.00 0.00 0.00 1.00
#3	Secondary	596.00'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Discarded OutFlow Max=57.56 cfs @ 12.10 hrs HW=596.15' (Free Discharge)↑ **1=Exfiltration** (Controls 57.56 cfs)**Primary OutFlow** Max=39.85 cfs @ 12.10 hrs HW=596.15' TW=594.72' (Dynamic Tailwater)↑ **2=Asymmetrical Weir** (Weir Controls 39.85 cfs @ 2.20 fps)**Secondary OutFlow** Max=76.14 cfs @ 12.10 hrs HW=596.15' TW=594.72' (Dynamic Tailwater)↑ **3=Special & User-Defined** (Custom Controls 76.14 cfs)**Summary for Pond SB:**

Inflow Area = 56.769 ac, 24.63% Impervious, Inflow Depth = 3.63" for 100 YR event
 Inflow = 205.09 cfs @ 12.10 hrs, Volume= 17.160 af
 Outflow = 205.05 cfs @ 12.10 hrs, Volume= 17.160 af, Atten= 0%, Lag= 0.1 min
 Discarded = 31.42 cfs @ 12.10 hrs, Volume= 10.890 af
 Primary = 27.45 cfs @ 12.10 hrs, Volume= 1.514 af
 Secondary = 146.19 cfs @ 12.10 hrs, Volume= 4.755 af

Routing by Dyn-Stor-Ind method, Time Span= 0.01-72.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 598.29' @ 12.10 hrs Surf.Area= 4,463 sf Storage= 10,080 cf

Flood Elev= 598.50' Surf.Area= 4,655 sf Storage= 11,027 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 1.1 min (826.7 - 825.5)

Volume	Invert	Avail.Storage	Storage Description		
#1	595.00'	11,027 cf	Vault/Basin (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
595.00	1,783	231.0	0	0	1,783
596.00	2,519	254.0	2,140	2,140	2,703
597.00	3,332	280.0	2,916	5,056	3,840
598.00	4,200	299.0	3,758	8,814	4,762
598.50	4,655	308.0	2,213	11,027	5,222

Device	Routing	Invert	Outlet Devices
#1	Discarded	595.00'	300.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 430.00'
#2	Primary	597.50'	Asymmetrical Weir, C= 3.27 Offset (feet) 0.00 3.00 13.00 16.00 Height (feet) 1.00 0.00 0.00 1.00
#3	Secondary	598.00'	Special & User-Defined Head (feet) 0.00 1.00 Disch. (cfs) 0.000 500.000

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Type II 24-hr 100 YR Rainfall=5.80"

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Discarded OutFlow Max=31.41 cfs @ 12.10 hrs HW=598.29' (Free Discharge)

↑**1=Exfiltration** (Controls 31.41 cfs)

Primary OutFlow Max=27.44 cfs @ 12.10 hrs HW=598.29' TW=596.15' (Dynamic Tailwater)

↑**2=Asymmetrical Weir** (Weir Controls 27.44 cfs @ 2.35 fps)

Secondary OutFlow Max=146.09 cfs @ 12.10 hrs HW=598.29' TW=596.15' (Dynamic Tailwater)

↑**3=Special & User-Defined** (Custom Controls 146.09 cfs)

Appendix I

Concept Plan

Appendix J

Site Estimate

**TOWN OF MANLIUS
MUIRFIELD DRIVE DRAINAGE IMPROVEMENTS ASSESSMENT**

MJ Project Number:
1456.07

Preliminary Cost Estimate

**MJ Engineering & Land Surveying, P.C.
1533 Crescent Road
Clifton Park, NY 12065**



Engineering and
Land Surveying, P.C.

March 16, 2023

TOWN OF MANLIUS**MUIRFIELD DRIVE DRAINAGE IMPROVEMENTS ASSESSMENT****Preliminary Cost Estimate: Summary Sheet****March 2023**

Description		Total Cost Option 1	Total Cost Option 2	Total Cost Option 3	Total Cost Option 4
Construction Costs		\$81,050	\$135,500	\$29,550	\$187,575
General Conditions	10%	\$8,105	\$13,550	\$2,955	\$18,758
Overhead & Profit	10%	\$8,916	\$14,905	\$3,251	\$20,633
Design Contingency	20%	\$19,614	\$32,791	\$7,151	\$45,393
Bid Contingency	5%	\$5,884	\$9,837	\$2,145	\$13,618
Escalation*	3.5%	\$4,325	\$7,230	\$1,577	\$10,009
Design & Construction Services	12%	\$15,347	\$25,658	\$1,632	\$35,518
Total Project Cost		\$143,241	\$239,471	\$48,261	\$331,504

Note: These costs are subject to change based of further engineering and design.

* Escalation assumed at 0.25 per month til May 2024

TOWN OF MANLIUS

MUIRFIELD DRIVE DRAINAGE IMPROVEMENTS ASSESSMENT

Preliminary Cost Estimate: Flooding Mitigation Option 1

March 2023

Item / Description	Quantity	Units	Material		Labor		Total	
			Rate	Amount	Rate	Amount	Rate	Amount
Clearing and Grubbing	6000	SF	\$0.20	\$1,200.00	\$0.25	\$1,500.00	\$0.45	\$2,700.00
Unclassified Excavation and Disposal	195	CY	\$30.00	\$5,850.00	\$20.00	\$3,900.00	\$50.00	\$9,750.00
Remove Existig Vault	1	LS	\$0.00	\$0.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00
Proposed Vault (Replaced in Kind)	1	LS	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$40,000.00	\$40,000.00
Grading	6000	SF	\$0.25	\$1,500.00	\$0.35	\$2,100.00	\$0.60	\$3,600.00
Landscaping & Site Restoration	1	LS	\$3,000.00	\$3,000.00	\$2,000.00	\$2,000.00	\$5,000.00	\$5,000.00
Work Zone Traffic Control	1	LS	\$2,000.00	\$2,000.00	\$3,000.00	\$3,000.00	\$5,000.00	\$5,000.00
							subtotal	\$81,050.00

Note: These costs are subject to change based of further engineering and design.

TOWN OF MANLIUS

MUIRFIELD DRIVE DRAINAGE IMPROVEMENTS ASSESSMENT

Preliminary Cost Estimate: Flooding Mitigation Option 2

March 2023

Item / Description	Quantity	Units	Material		Labor		Total	
			Rate	Amount	Rate	Amount	Rate	Amount
Clearing and Grubbing	10000	SF	\$0.20	\$2,000.00	\$0.25	\$2,500.00	\$0.45	\$4,500.00
Unclassified Excavation and Disposal	550	CY	\$30.00	\$16,500.00	\$20.00	\$11,000.00	\$50.00	\$27,500.00
Remove Existig Vault	1	LS	\$0.00	\$0.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00
Proposed Vault (30% Increase in Size)	1	LS	\$35,000.00	\$35,000.00	\$35,000.00	\$35,000.00	\$70,000.00	\$70,000.00
Grading	10000	SF	\$0.25	\$2,500.00	\$0.35	\$3,500.00	\$0.60	\$6,000.00
Landscaping & Site Restoration	1	LS	\$4,500.00	\$4,500.00	\$3,000.00	\$3,000.00	\$7,500.00	\$7,500.00
Work Zone Traffic Control	1	LS	\$2,000.00	\$2,000.00	\$3,000.00	\$3,000.00	\$5,000.00	\$5,000.00
							subtotal	\$135,500.00

Note: These costs are subject to change based of further engineering and design.

TOWN OF MANLIUS
 MUIRFIELD DRIVE DRAINAGE IMPROVEMENTS ASSESSMENT
 Preliminary Cost Estimate: Flooding Mitigation Option 3
 March 2023

Item / Description	Quantity	Units	Material		Labor		Total	
			Rate	Amount	Rate	Amount	Rate	Amount
Clearing and Grubbing	6000	SF	\$0.20	\$1,200.00	\$0.25	\$1,500.00	\$0.45	\$2,700.00
Unclassified Excavation and Disposal	275	CY	\$30.00	\$8,250.00	\$20.00	\$5,500.00	\$50.00	\$13,750.00
Grading	6000	SF	\$0.25	\$1,500.00	\$0.35	\$2,100.00	\$0.60	\$3,600.00
Landscaping & Site Restoration	1	LS	\$2,500.00	\$2,500.00	\$1,500.00	\$1,500.00	\$4,000.00	\$4,000.00
24" HDPE Pipe & Fittings (Including Excavation)	50	LF	\$60.00	\$3,000.00	\$50.00	\$2,500.00	\$110.00	\$5,500.00
							subtotal	\$29,550.00

Note: These costs are subject to change based of further engineering and design.

TOWN OF MANLIUS

MUIRFIELD DRIVE DRAINAGE IMPROVEMENTS ASSESSMENT

Preliminary Cost Estimate: Flooding Mitigation Option 4

March 2023

Item / Description	Quantity	Units	Material		Labor		Total	
			Rate	Amount	Rate	Amount	Rate	Amount
Clearing and Grubbing	19000	SF	\$0.20	\$3,800.00	\$0.25	\$4,750.00	\$0.45	\$8,550.00
Unclassified Excavation and Disposal	800	CY	\$30.00	\$24,000.00	\$20.00	\$16,000.00	\$50.00	\$40,000.00
Remove Existig Vault	1	LS	\$0.00	\$0.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00
Proposed Vault (30% Increase in Size)	1	LS	\$35,000.00	\$35,000.00	\$35,000.00	\$35,000.00	\$70,000.00	\$70,000.00
Grading	19000	SF	\$0.25	\$4,750.00	\$0.35	\$6,650.00	\$0.60	\$11,400.00
Landscaping & Site Restoration	1	LS	\$8,000.00	\$8,000.00	\$4,000.00	\$4,000.00	\$12,000.00	\$12,000.00
Fence & Gate	575	LF	\$25.00	\$14,375.00	\$10.00	\$5,750.00	\$35.00	\$20,125.00
24" HDPE Pipe & Fittings (Including Excavation)	50	LF	\$60.00	\$3,000.00	\$50.00	\$2,500.00	\$110.00	\$5,500.00
Work Zone Traffic Control	1	LS	\$2,000.00	\$2,000.00	\$3,000.00	\$3,000.00	\$5,000.00	\$5,000.00
							subtotal	\$187,575.00

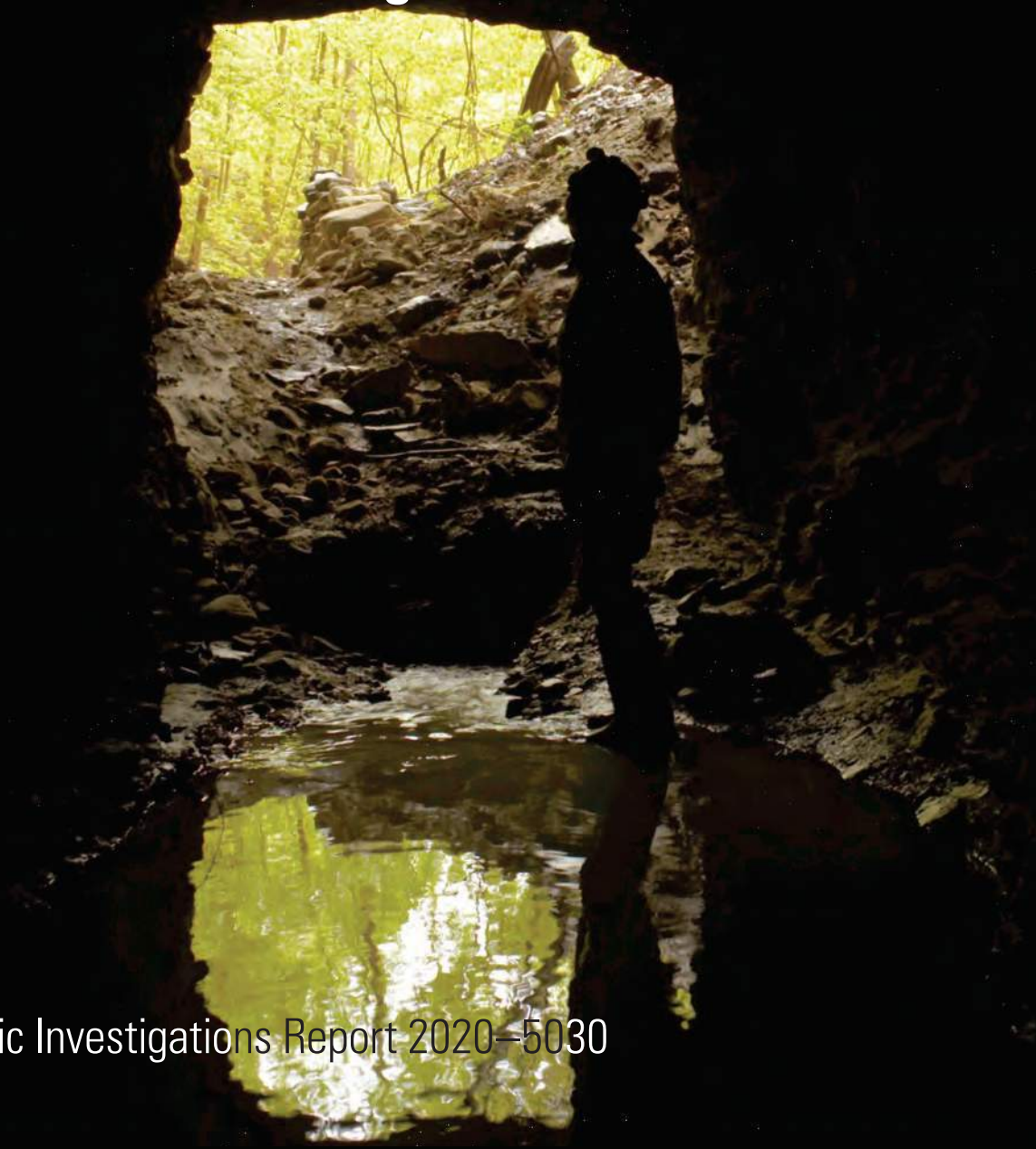
Note: These costs are subject to change based of further engineering and design.

Appendix K

Statewide Assessment of Karst Aquifers in New York

Prepared in cooperation with the New York State Department of Environmental Conservation

Statewide Assessment of Karst Aquifers in New York With an Inventory of Closed-Depression and Focused-Recharge Features



Scientific Investigations Report 2020–5030

Cover. Front. Entrance to Schoharie Caverns in Schoharie County, New York. Entrance is in the Manlius Limestone near the top of a steep slope. The spring at the cave opening is perched high above nearby creek.

Back. Photograph of a cave passage from McFail's Cave. Photograph by Art Palmer, professor emeritus, State University of New York at Oneonta, New York.

Statewide Assessment of Karst Aquifers in New York With an Inventory of Closed-Depression and Focused-Recharge Features

By William M. Kappel, James E. Reddy, and Jonathan C. Root

Prepared in cooperation with the New York State Department of Environmental
Conservation

Scientific Investigations Report 2020–5030

**U.S. Department of the Interior
U.S. Geological Survey**

U.S. Department of the Interior
DAVID BERNHARDT, Secretary

U.S. Geological Survey
James F. Reilly II, Director

U.S. Geological Survey, Reston, Virginia: 2020

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The New York State Department of Health and individual county health departments provided information on numerous contamination events that were in karst areas. In a similar fashion, the New York State soil and water conservation districts provided data to assist in identifying where contamination issues in karst has occurred across the State.

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The authors also thank numerous local government agencies, public institutions, and individuals who shared their knowledge of specific karst features or information about such features from their office or personal files. Without these sources, illustrating the effects of karst on local and regional environmental scales throughout New York State would have been difficult.

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Conversion Factors

U.S. customary units to International System of Units

Multiply	By	To obtain
inch (in.)	2.54	centimeter (cm)
foot (ft)	0.3048	meter (m)
mile (mi)	1.609	kilometer (km)
yard (yd)	0.9144	meter (m)
acre	0.4047	hectare (ha)
square mile (mi ²)	2.590	square kilometer (km ²)
gallon (gal)	3.785	liter (L)

International System of Units to U.S. customary units

Multiply	By	To obtain
centimeter (cm)	0.3937	inch (in.)
meter (m)	3.281	foot (ft)

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

$$^{\circ}\text{F} = (1.8 \times ^{\circ}\text{C}) + 32.$$

Datum

Vertical coordinate information is referenced to the North American Vertical Datum of 1988 (NAVD 88).

Horizontal coordinate information is referenced to the North American Datum of 1983 (NAD 83).

Elevation, as used in this report, refers to distance above the vertical datum.

Abbreviations

DEM	digital elevation model
DRG	digital raster graphic
<i>E. coli</i>	<i>Escherichia coli</i>
GIS	geographic information system
gSSURGO	gridded Soil Survey Geographic database
lidar	light detection and ranging
NHD	National Hydrography Dataset
NLCD	National Land Cover Database
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
SSURGO	Soil Survey Geographic database
TCE	trichloroethene
USGS	U.S. Geological Survey

Statewide Assessment of Karst Aquifers in New York With an Inventory of Closed-Depression and Focused-Recharge Features

By William M. Kappel, James E. Reddy, and Jonathan C. Root

Abstract

Karst is a landscape formed from the dissolution of soluble rock or rock containing minerals that are easily dissolved from within the rock. The landscape is characterized by sinkholes, caves, losing streams, springs, and underground drainage systems, which rapidly move water through the karst. The two forms of karst in New York State include carbonate karst, which forms in carbonate rock (limestone, marble, and dolostone), and evaporite karst, which forms in rock that contains the evaporite minerals gypsum and halite.

Past and recent studies of karst across the State have shown that areas of focused recharge in karstic carbonate rock allow contaminants to enter aquifer systems with little attenuation. Focused areas of recharge need to be identified to help prevent such contamination from sources on or adjacent to the karst. The New York State Departments of Environmental Conservation and Health are collaborating with the agricultural community to make farmers and farm-planning advisors more aware of karst and how to manage daily farming activities to reduce their impact on surface water and groundwater resources, especially in karst areas. There is also a need to make regulators, planners, and the general public aware of New York's karst resources and to properly protect and manage these resources to protect the quality of groundwater and surface water that can flow into, through, and from karst bedrock.

Using publicly available geospatial data, karst bedrock and closed depressions over or near karst rock were identified across New York. Carbonate, evaporite, and marble geologic units were selected from a statewide 1:250,000-scale bedrock geology dataset. The selected geologic units were intersected with 7.5-minute quadrangle maps to define the study area.

The U.S. Geological Survey has compiled an inventory of closed depressions from statewide digital contour data, scanned 7.5-minute topographic maps known as a digital raster graphics, and light detection and ranging (lidar) digital elevation models. Analysis of the data resulted in the identification of 5,023 closed depressions statewide. The inventory was conducted to eliminate duplication of results from analysis of the three data sources. A series of overlay analyses

was conducted using the closed depressions and thematic data known to be key factors in determining the probability of a closed depression contributing to focused groundwater recharge; the thematic data include bedrock geology, soil type, soil infiltration rate, and land cover.

Though the extent of karst development is important in understanding the interaction between surface water and groundwater in karst terrains, some of the worst cases of groundwater contamination in karst can occur where only minor karst features might be present. The presence of karst—be it a short section of a solutioned fracture or an extensive cave system—requires careful consideration, forward-looking environmental planning, and consistent water-quality protection to preserve New York State's water resources.

Introduction

The New York State Department of Environmental Conservation (NYSDEC) and Department of Health (NYS-DOH) are concerned about **groundwater**¹ contamination in the karst **aquifers** of New York State ([fig. 1](#)), especially relating to the unintended introduction of industrial contaminants (such as volatile organic compounds [VOCs]) or agricultural contaminants (such as liquid manure; Reddy and Kappel, 2010). The NYSDEC and NYSDOH have started collaborating with the agricultural community to make farmers and farm-planning advisors more aware of karst and how to manage daily farming activities to reduce their impact on surface water and groundwater resources, especially in karst areas. To this end, the U.S. Geological Survey (USGS) has compiled an inventory of closed depressions from statewide digital contour data, scanned 7.5-minute topographic maps known as a digital raster graphics, and light detection and ranging (lidar) digital elevation models. This report provides information on the location of karst bedrock and associated closed depressions

¹Words that appear in bold typeface are defined in the glossary of this report.

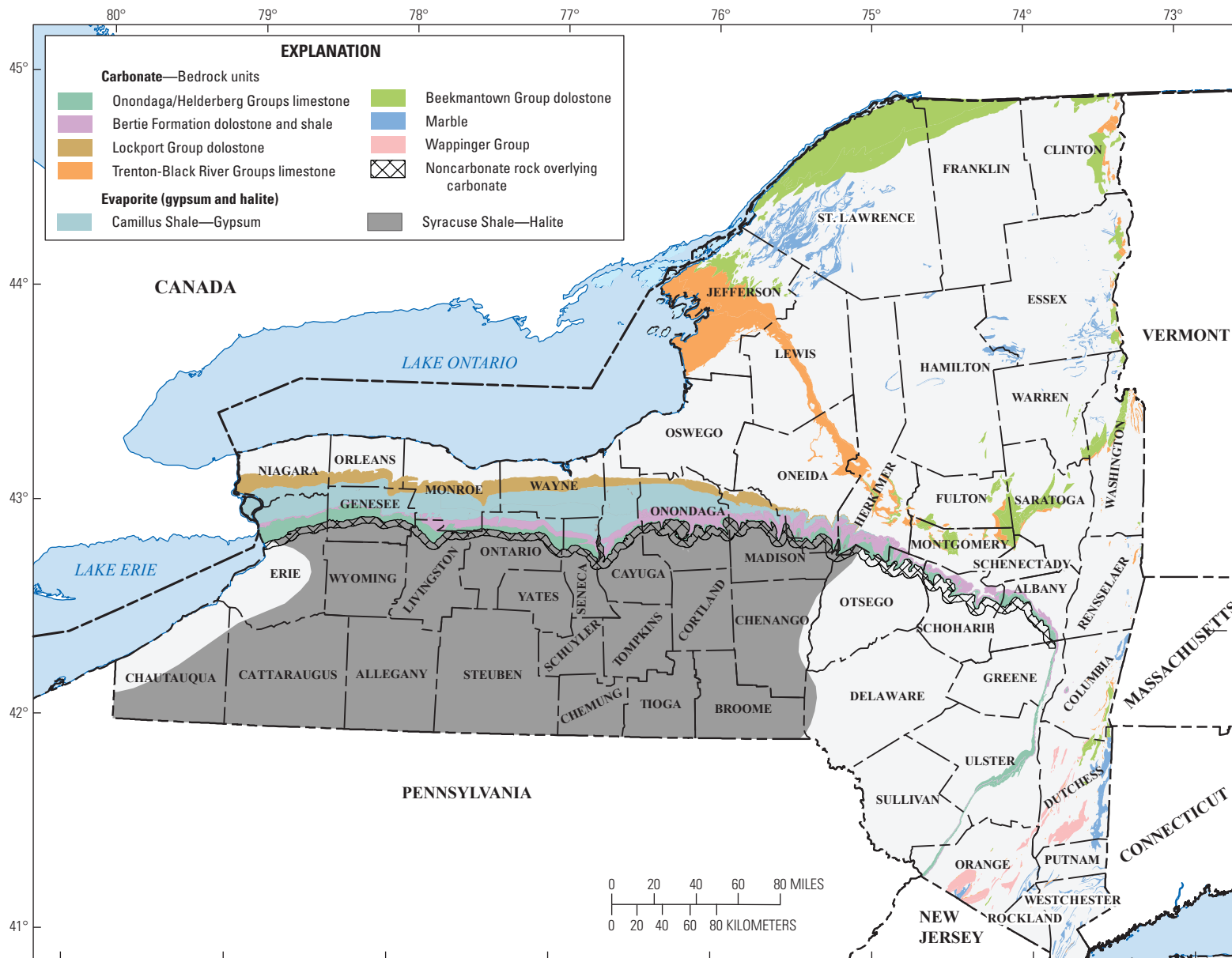


Figure 1. Major geologic units in which karst may be developed in New York State.

that focus surface water recharge to groundwater in karst areas across New York. The report also provides examples of why it is important to carefully manage and protect this resource.

Karst development (karstification) forms highly **permeable** bedrock aquifers that transmit and yield water from solution-enlarged fractures, **bedding planes**, and other openings (Olcott, 1995). Karst is a landscape formed from the dissolution of soluble rock or rocks that contain minerals that are easily dissolved from within the rock. The landscape is characterized by **sinkholes**, **caves**, losing streams, **springs**, and underground drainage systems, which rapidly move water through the karst. The two most common types are karst that forms in **carbonate** rock, such as **limestone**, **marble**, and **dolostone** (carbonate karst), and karst that forms in rock that contains evaporite minerals, such as **gypsum** or **halite** (evaporite karst).

The potential for focused recharge in karst (figs. 2 through 5) is greatest where the rocks crop out at or near land surface and where **closed depressions** at the land surface can focus infiltration of surface-water runoff into the aquifer. Karst aquifers are recharged by direct infiltration of precipitation that falls on the karst landscape and by infiltration of surface runoff at closed depressions, sinkholes, and **swallets**. Surface runoff may include runoff from adjacent lowlands underlain by glaciolacustrine deposits or shale-bedrock uplands that are mantled with glacial till.

Evaporite deposits of gypsum and halite associated with some shales are the most soluble of the common rock types with solubilities at standard temperature (20 degrees Celsius) and atmospheric pressure (1 bar) of 2.5 grams per liter (g/L) for gypsum and 360 g/L for halite. Karst features similar to those present in carbonate rock can develop in these evaporite deposits. The solubility of carbonate bedrock is 0.39 g/L for dolostone and 0.0062 g/L for limestone, making the rocks relatively insoluble in relation to evaporite deposits. A major difference between carbonate- and evaporite-rock karst is the time it takes for karst features to develop. Karst in carbonate rock develops over years, decades, or centuries, but karst in evaporite rock can develop over days, weeks, or years (Johnson, 2007). Gypsum deposits are more common than halite deposits and represent most evaporite-type karst in the United States (Dean and Johnson, 1989; Johnson, 2003). The solutioning of gypsum, where gypsum crops out at land surface or is within 100 feet (ft) of the land surface, can form karst features, but halite rarely appears at or near the land surface because it usually is dissolved at depths ranging from tens to hundreds of feet below the land surface (Johnson, 2007). Karst development in the carbonate rock of New York State is dependent on the rock type (limestone versus dolostone), rock structure (bedding dip and fracturing), and potential for focused recharge. Karst can develop in carbonate rock at any depth where favorable conditions are present and as long as there is a continuity of flow from where water enters and eventually exits the soluble rock.

A



B



Figure 2. A small sinkhole in Genesee County, New York, A, with a small stream disappearing into it (a swallet) and B, in early spring. As snowmelt runoff exceeded the swallet capacity, the area flooded, and an ice sheet formed. When runoff ceased and all water drained into the swallet, the unsupported ice cover collapsed into it. Photographs courtesy of Paul Richards, State University of New York at Brockport.



Figure 3. A closed depression near Batavia, Genesee County, New York, from *A*, a part of a 1:24,000-scale topographic map and *B*, a Google Earth image showing a closed depression (red ellipse) and *C*, the interior of the closed depression where surface water infiltrates into the Onondaga Limestone. The high-water line is shown to the left of the wooded area and standing water adjacent to the woods. Tree ‘scars’ (*C*) appear where ice formed when the depression was filled with water and the ice damaged the bark layer of several trees.

A*B**C*

Figure 4. Karst bedrock features in Madison County, New York. *A*, Google Earth image of the fractured bedrock surface at a limestone quarry north of Perryville, New York; quarry floor is in the shadow left of the fractured bedrock surface. *B*, Dry streambed in carbonate bedrock; the streamflow disappears into the bedrock upstream from this location. *C*, Karren pavement with trees growing between fractured and solutioned carbonate bedrock.



Figure 5. Swallet entrance to McFails Cave in Schoharie County, New York, during *A*, the dry season and *B*, a 50-year flood discharge in January 1996; photographs courtesy of Art Palmer, professor emeritus, State University of New York at Oneonta.

Contamination in Karst

The karst landscape creates a situation where surface water and any contamination source can rapidly move from the land surface to an underlying aquifer. These contaminants, after entering the aquifer, can move rapidly with groundwater from areas of focused recharge to points of discharge and to any other intermediary location where groundwater is withdrawn, such as a water-supply well.

Karst aquifers are susceptible to contamination beneath urban areas from varied contaminant sources, including septic-tank effluent, runoff containing metals, oil and grease, solid and liquid wastes, and accidental or intentional dumping of chemical wastes by industrial facilities and homeowners (Veni and others, 2001). Karst aquifers in New York have been contaminated by unintended or improper chemical disposal or spills of contaminants such as petroleum products

or trichloroethene (TCE) and its breakdown residuals. These contaminants, dependent on their nature, can readily move into karst aquifers to cause short- or long-term water-quality issues in regional aquifer systems (fig. 6). The age and degree of dissolution in karst bedrock can also lead to land-surface **subsidence** and infrastructure issues (leaking pipelines and storage tanks or damaged septic systems resulting from subsidence) in rural and urban settings which, in turn, might also affect local and regional water quality.

In rural and agricultural areas, karst aquifers are also subject to environmental degradation from a variety of sources, including natural and chemical fertilizers, pesticides, and herbicides, along with their breakdown products (Veni and others, 2001). In New York, groundwater contamination from liquid manure applications and resulting water-quality issues, such as fecal coliform bacteria (*Escherichia coli* [*E. coli*]) and nitrate, were increasing in the early 2000s, and contamination incidents were reported to the NYSDEC (Reddy and

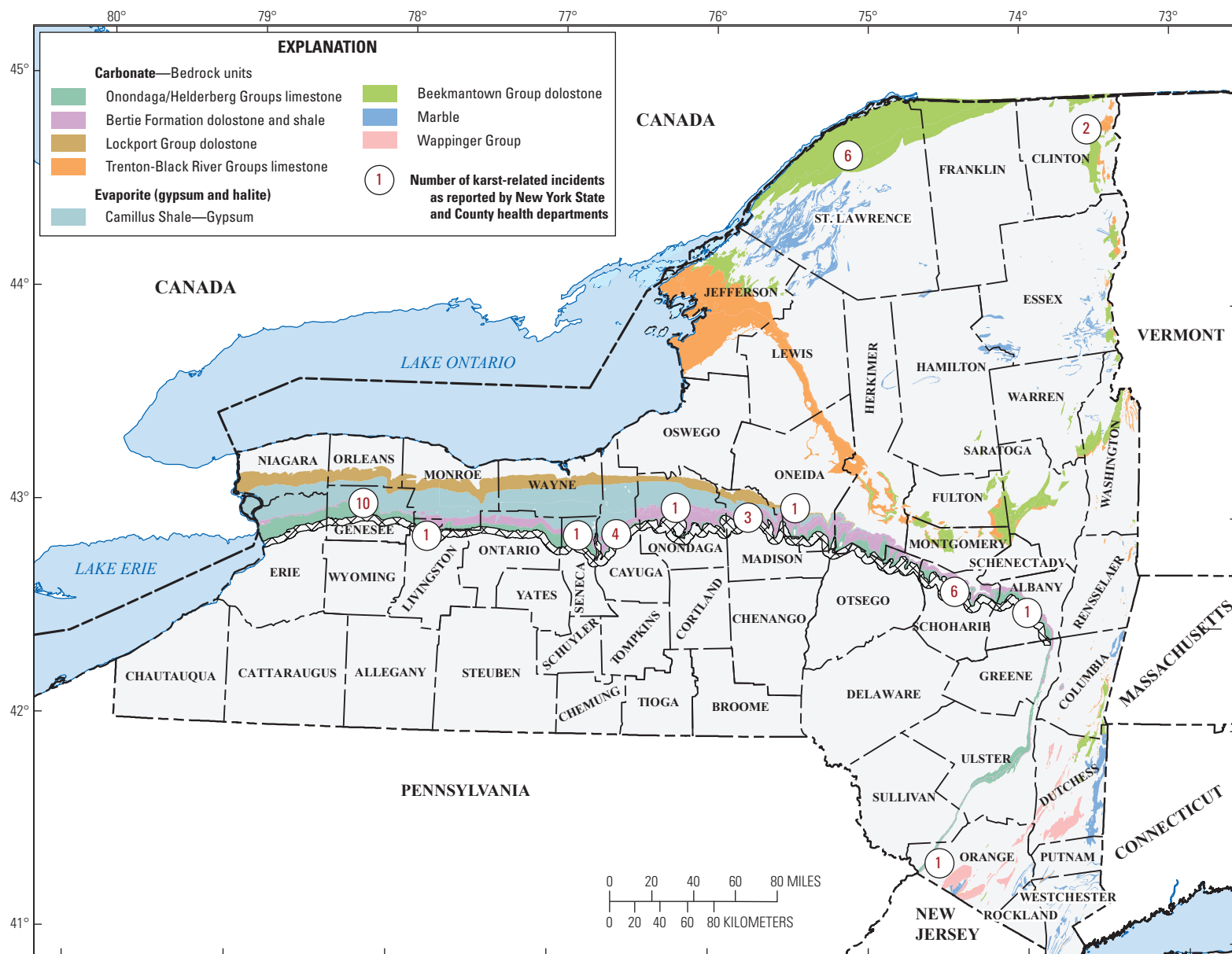


Figure 6. Contamination issues in karst areas in New York, by county, as reported by the New York State Department of Health and county health departments between 2000 and 2016.

Kappel, 2010). Nitrate from fertilizer is highly soluble in water and thus can move readily through the soil and enter the groundwater system. *E. coli* bacteria are not water soluble, but because of their small size, they can move through larger soil pores and into bedrock fractures, especially solution-widened fractures in the **karstic** rock. The high water content and organic nature of liquid manure may enhance movement of some contaminants under certain meteorological and soil conditions. As these rural contamination issues were being reported, the use of bacterial source tracking—using DNA “fingerprints” to determine the source(s) of *E. coli* pollution—identified or ruled out certain bacterial sources, allowing watershed management decisions that are better informed.

New York Bedrock as Affected by Karst and Glacial Processes in New York State

Karstification in New York State is highly variable because of the type of bedrock present; how the bedrock has been affected by tectonic, glacial, and other geological forces; the amount of water that moves through the karst aquifer (focused recharge); the topographic position of the rock; and how long the dissolution process has been active. Most of the bedrock in New York has little in the way of primary permeability and **porosity**—that is, water cannot easily move through or be stored in the bedrock matrix. Secondary permeability in the form of bedrock joints and other fractures was created by continental tectonic forces and stress relief including the loading and unloading of glacial ice. Weathering and dissolution of bedrock fractures in carbonate and evaporite bedrock increase the amount of water moving through the fracture system, which further enhances water movement, widens and lengthens openings, and increases permeability (sometimes termed tertiary permeability) and storage, (Ford and Williams, 2007; Kresic, 2007). In the short term, these processes can create simple, localized recharge to and discharge from a fracture or set of connected fractures over several hundreds or thousands of feet. In the long-term, these processes can create complex regional **conduit** and **cave systems** that can extend in three dimensions throughout a carbonate bedrock sequence over many square miles. How these systems develop can mean the difference between diffuse flow systems that may be seasonally unaffected by individual precipitation events and systems that may, under focused-recharge conditions, rapidly transmit surface water to groundwater and then rapidly allow groundwater to reappear as surface water at a downgradient discharge location.

Although the extent of karst development is important for understanding the surface water–groundwater interaction in a karst terrain, “the number of karst features has little to do with the problems of groundwater flow and contamination in

karst. In fact, sparse karst can give a false security. Some of the worst cases of groundwater contamination are in carbonates with only minor karst features” (Art Palmer, professor emeritus, State University of New York at Oneonta, written commun., 2016).

Karst Hydrology: New York Examples

Rapid changes in groundwater levels in karst aquifers highlight the hydraulic effect of focused recharge. For example, in Livingston County in western New York, there are two groundwater wells (LV county designation) about 3 miles (mi) distant from each other, and water-level changes are monitored as part of the statewide groundwater level cooperative monitoring program between the NYSDEC and the USGS. These two wells (U.S. Geological Survey, 2015) are near Caledonia ([fig. 7](#)); one well monitors the groundwater level in a surficial sand and gravel aquifer (well LV 330; USGS site number 425833077503901) and the other monitors the groundwater level in the underlying Onondaga Limestone, a karstic bedrock aquifer (well LV 333; USGS site number 425844077532901).

The water levels in the two wells both react to individual precipitation events, but the magnitude of reaction is quite different. The water level in well LV 330 changed only about 0.3 ft between summer and fall 2016, following a summer-long drought and subsequent average amounts of autumn precipitation and recharge. On the other hand, the water-level change in well LV 333 was about 12 ft during the same period ([fig. 7](#)). Following one precipitation event in which about 2 inches (in.) of precipitation fell on October 21, 2016, the water level in well LV 330 rose by about 0.20 ft during the following few days, whereas the water level in well LV 333 rose by more than 11 ft and then declined rapidly by more than 3 ft the following day. Knowing how and where water moves into and out of a karst aquifer system is important, as was demonstrated in this example case: the Onondaga Limestone, like many karst aquifers, has limited storage capacity but can rapidly transmit water through bedrock solution-enhanced fractures.

In this same area, the effects of water moving through karst can be seen by comparing two aerial images of a closed depression at a nearby golf course just east of LeRoy and west of Caledonia ([fig. 8](#)). In [figure 8A](#), there is a slight trace of a dry streambed and several small sinkholes in the upper photograph, but in [figure 8B](#), the same closed depression is filled with water with a high-water outlet at the upper (northern) end of the pond. Water filled this depression from both surface runoff from the upgradient shale bedrock watershed (which is termed **allogenic recharge**) as well as groundwater flowing in bedrock fractures that filled then overflowed the fractures to create the standing water body. Reportedly from groundskeepers at the golf course, in most cases, this closed depression fills and drains within a few days.

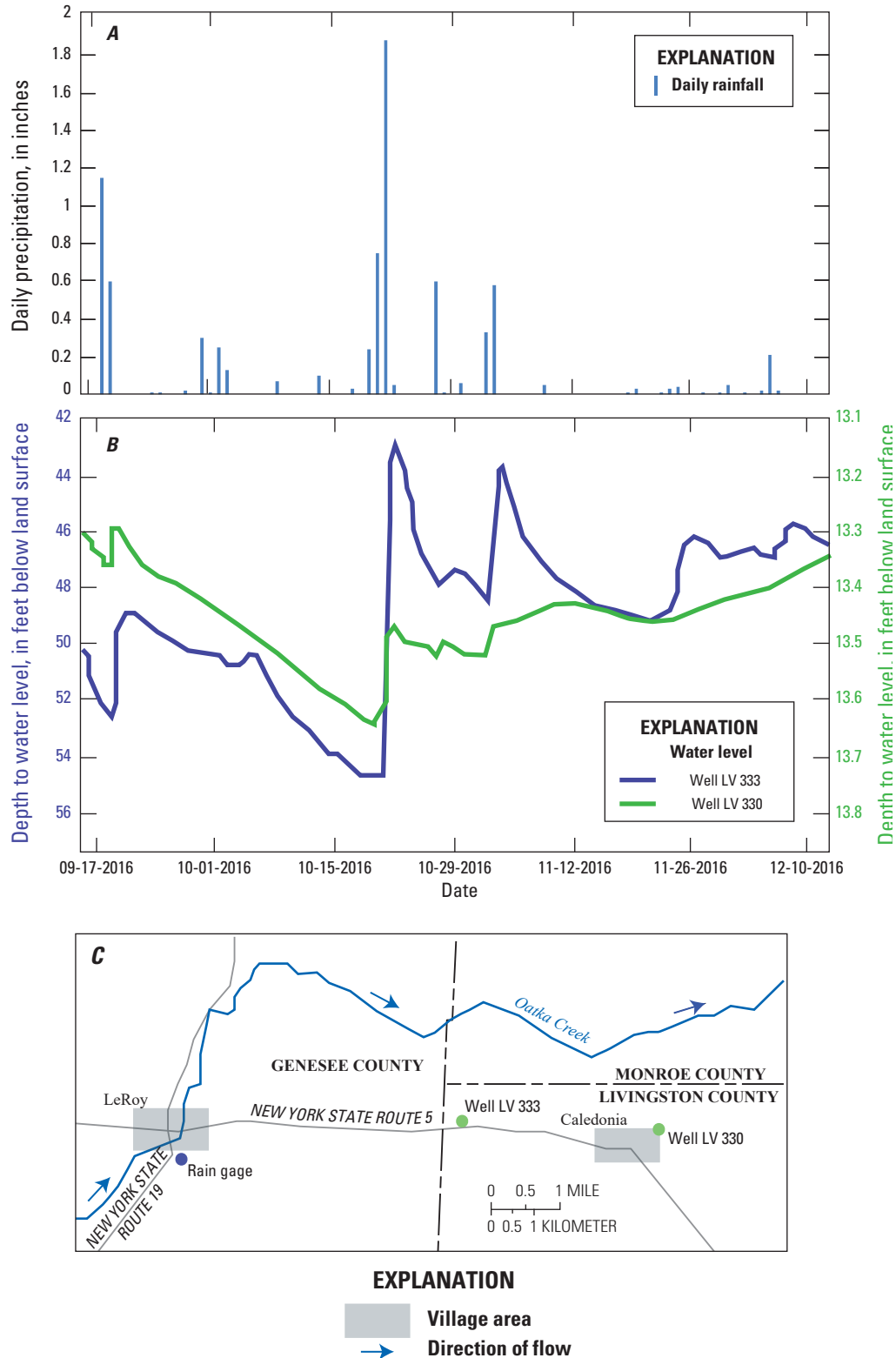


Figure 7. Comparison of two well hydrographs and local rainfall between mid-September and mid-December 2016 in western New York. *A*, Precipitation in LeRoy; *B*, water-level fluctuations at well LV 330 in an unconsolidated sand and gravel aquifer (green line) and well LV 333 in the Onondaga Limestone bedrock aquifer (blue line); *C*, location map for wells LV 330 and LV 333 and LeRoy. Note difference in water-level elevation scales for the two wells.

A similar karst situation occurs further east, near Marcellus in Onondaga County, at the locally so-called “Disappearing Lake.” The closed depression is dry in September (fig. 9A) but filled with water in June (fig. 9B) with allogenic recharge from the surrounding steep shale hillsides and the interaction with the underlying karst aquifer (Proett, 1978; van der Hoorne, 2010). There are several small exposures of bedrock on the floor of the depression that can only receive or discharge a certain amount of water to or from the underlying carbonate aquifer. The lake feature may take months to drain but, dependent on local precipitation patterns and **water table** elevations, this flow can rapidly exceed the ability of the bedrock fractures to accept surface water to the groundwater system or discharge groundwater to the land surface

Near the City of Watertown in Jefferson County in northern New York, a holding pond for surface-water runoff was built over the Black River Limestone (fig. 10). The construction drawings clearly show the pond being constructed between several closed depressions, avoiding what could have been subsidence caused by minor sinkhole development or soil being removed by the fluctuating groundwater levels in the limestone bedrock below the clay. The pond functioned as designed for a number of years but then catastrophically failed, draining part of the volume of the pond. A dike was built to isolate the leak and, upon clearing the clay soil from the floor of the pond, a fracture in the limestone bedrock (fig. 10A) and a small solution-enlarged hole along the bedrock fracture were present where the water had drained into the limestone bedrock (fig. 10B). The hole was sealed, the clay replaced and consolidated, and the pond now functions as designed. Reviewing the location of the closed depressions, the orientation of bedrock fractures in the nearby channel of the Black River (fig. 10C), and the joint in the partly drained pond reveal that the fracture orientation extends through two of the closed depressions on either side of the holding pond.

Although the exact cause of the leak is still undetermined, the continuous saturation of the clay over the bedrock feature may have weakened the clay, while the fluctuating water table may have removed the clay from below, making the surface-water-to-groundwater connection. Additionally, several months before the failure, an earthquake occurred to the east in the Adirondack Mountain region. This earthquake may have affected the bedrock fracture and the overlying clay, causing the leak to slowly increase to the point that the clay seal failed and the pond partly drained.

A. September 2013



B. March 2010



Figure 8. A closed depression (sinkhole-swallet) in Onondaga Limestone at the LeRoy Country Club in LeRoy, Genesee County, New York, in *A*, March 2010 and *B*, September 2013. Surface water contributed from a shale bedrock watershed to the south of this view. In March 2010, the depression was filled with surface-water runoff and had a karst water table above land surface, whereas in September 2013, the karst water table was below land surface.

A. September 2009



B. June 2011



Figure 9. Disappearing Lake near Marcellus, Onondaga County, New York. *A*, Aerial image from September 2009, with no standing water in the closed depression; *B*, Aerial image from June 2011 following a wet spring season, where runoff from the surrounding shale hillsides has filled the closed depression and water is slowly draining into the underlying Onondaga Limestone.

A



B



C



Figure 10. Draining of a surface-water holding pond in Watertown, New York. *A*, Bedrock fracture found below approximately 6 feet of glacial clayey soil in which the holding pond was located; *B*, solution opening along this fracture where surface water drained to groundwater; *C*, orientations of primary bedrock fractures in the Black River, southwest of the holding pond and east of the New York State Route 12 bridge in Watertown.

Karst in Bedrock of New York State

In New York State, karst is present in a number of bedrock lithologies (limestone, marble, dolostone, and shale with evaporite deposits; [table 1.1](#)) and is also dependent on the structure of and within the rock (strike and dip of the rock and the presence of joints, fractures, faults, and bedding planes within the rock mass). Karst develops in either gently dipping west-to-east oriented bands in western and central New York or in steeply dipping beds or isolated exposures in south-eastern New York. Weary (2008) characterizes New York's carbonate karst into two major groups, each with a subgroup based on glacial-cover thickness.

The first group of bedrock consists of gently folded and flat-lying carbonate rocks that have not been strongly deformed. One subclass of this group is thinly covered with glacial material and the other subclass has thick (more than 50-ft) unconsolidated glacial materials that tend to obscure karst land-surface features. In this group, where the carbonate-rocks are thick and extensive, cave systems may be long and complex. Where the carbonates are thin and interbedded with noncarbonates, caves are small and short (Weary, 2008). Palmer (1991) indicates that the geometry of caves that follow stratigraphic and bedding planes form meandering branchwork (stream-like) caves and **passages**.

The second group of karst bedrock is composed of folded and faulted carbonate rocks flanking structural deformation zones that may be intensely folded, jointed, and faulted. Caves can be small and simple or long and complex (Weary, 2008). Palmer (1991) indicates that cave patterns in this group show structural control and form networked (angular grid- or road-like) cave patterns as well as vertical connections to the land surface. Here, too, where the glacial deposits are thick (more than 50 ft), the karst features typically are not apparent at land surface.

Cooper and Mylroie (2015) described the geologic age and location of karst bedrock in New York ([fig. 1](#); [table 1](#)) as

- Precambrian Grenville Complex marble in the Adirondack Mountain region;
- Precambrian, Cambrian, and Ordovician marble in eastern New York (Wappinger and Chazy Groups);
- Cambrian and Ordovician limestone in northern New York lowlands and the Mohawk Valley (Trenton Group, Black River Group, and Beekmantown Group);
- Silurian and Devonian limestone and dolostone in nearly flat-lying beds from western to east-central New York (Onondaga Limestone, Helderberg Group, and Lockport Group), and within gypsum- and halite-bearing shale (Salina Group) in western to central New York. Other carbonate beds are present in the Silurian and Devonian sequence and can be karstic locally (such as the Manlius, Coeymans, Rondout, and Tully

Limestones and the Akron-Bertie Dolostone), but they are not highlighted here because they are generally associated with the previously mentioned bedrock units.

- Silurian and Devonian limestone and dolostone in structurally deformed and steeply dipping beds along the western side of the Hudson River Valley in eastern New York (Onondaga Limestone and Helderberg Group).

All bedrock in New York has been affected to various degrees through geologic time by continental movement (plate tectonics) and the associated structural deformation including folding, fracturing, and faulting. In an extreme case in the lower Hudson River Valley, bedrock strata have been deformed from a horizontal to a nearly vertical orientation ([fig. 11A](#)). The Adirondack Mountain dome continues to rise to this day, slowly deforming the sedimentary bedrock that surrounds it.

During the past 2.6 million years, bedrock in New York State has been subjected to periods of continental glaciation (Fullerton, 1980) and intervening periods of erosion and deposition by fluvial processes. During and following each glacial period (1) the bedrock surface was reshaped, (2) surface-water and groundwater drainage patterns were modified, locally and regionally, (3) internal drainage through dissolution of carbonate rock or evaporite deposits was enhanced, and (4) internal bedrock flow and storage were increased, developing secondary and tertiary permeability and porosity. Dependent on the age and degree of karst development, surface water and groundwater interaction in karst has been affected by both glacial and interglacial dissolution processes. For example, some caves predate the most recent glacial episode (Wisconsinan) and were partially filled with glacial sediments that were subsequently re-excavated ([fig. 12](#)). Continued dissolution of karstic bedrock today further develops karst systems and highlights the need to understand and protect karst-aquifer water resources in New York State.

The carbonate and evaporite bedrock units in New York have undergone various degrees of karst development, from recent dissolution that may only extend several hundred feet within carbonate bedrock to long-term (several tens to hundreds of thousands of years) development of large karst-aquifers that evolved into interconnected cave systems that extend over many square miles. In some places, the karst bedrock is overlain by unconsolidated deposits and bedrock that may be in hydraulic contact with the underlying karstic bedrock, termed **subjacent karst**. Adjacent and topographically higher nonkarst bedrock can also route surface water and groundwater into a nearby karst aquifer (allogenic recharge). These adjacent areas are part of the focused-recharge watershed of karst aquifers, even though they might not be types of bedrock in which karst would normally form in or flow through. [Figures 8](#) and [9](#) are examples of shale uplands that drain to a karst feature.

Table 1. Stratigraphic column of New York State bedrock indicating those units in which karst features might be present

[Cells shaded in blue indicate formations prone to carbonate karst development; cells shaded in green indicate formations somewhat prone to carbonate karst development; cells shaded in orange indicate formations somewhat prone to gypsum evaporite karst development; cells shaded in yellow indicate formations somewhat prone to halite or gypsum evaporite karst development; and cells not shaded indicate formations that do not have karst development]

Period	Epoch	Group or formation	Location of group in New York						Formation or member	Generalized lithology
			West	Central	East	Southeast	Champlain	St. Lawrence		
Devonian	Upper	Conewango	X						Cattaraugus	Shale and sandstone
		Conneaut	X						Ellicott/Chadakoin/Whitesville	Shale
		Canadaway	X	X					Gowanda/Dunkirk/Caneadea/Wellsville	Shale and sandstone
		West Falls-Java	X	X					Hanover/Wiscoy/Angola/Nunda/Rhinestreet	Shale; shale and sandstone
					X				Slide Mountain	Shale, sandstone, conglomerate
		Sonyea	X	X					Cashaqua/Middlesex/Rock Stream	Shale; shale and sandstone
				X	X				Glen Aubrey/Lower Walton	Shale and sandstone
		Genesee	X	X					West River/Penn Yan	Shale
			X	X	X				Genesee/Ithaca/Onondaga	Shale and sandstone
	Middle	Tully Limestone		X					Tully	Limestone
		Hamilton			X				Ashokan/Manorkill	Shale and sandstone
			X	X	X				Moscow/Portland Point	Shale; limestone
					X				Cooperstown	Shale and sandstone
			X	X	X				Centerfield/Ludlowville/Skaneateles/Panther Mountain	Shale and limestone
			X	X	X				Marcellus (Union Springs-Oatka Creek)/Mount Marion	Shale; shale and sandstone
		Onondaga Limestone	X	X	X	X			Onondaga	Limestone
	Lower	Tristates	X		X	X			Bois Blanc/Schoharie	Limestone; shale
					X	X			Esopus	Shale
				X	X	X			Oriskany/Glenerie	Sandstone; limestone
		Helderberg			X	X			Alsen/Port Ewen	Limestone; shale
					X	X			Becraft	Limestone
					X	X			Kalkberg/New Scotland	Limestone; shale
				X	X				Manlius/Coeymans	Limestone
				X	X				Chrysler/Rondout	Dolostone
	Upper	Salina	X	X	X				Akron/Cobleskill	Dolostone; limestone
			X	X	X				Bertie	Dolostone with gypsum
			X	X					Camillus	Shale, with gypsum
			X	X	X				Syracuse/Wawarsing/Poxono Island	Shale, with halite, limestone; shale
			X	X	X				Vernon/Bloomsburg	Shale, with halite and gypsum; shale and sandstone
		Lockport	X	X					Guelph/Eramosa/Sconondoa	Dolostone; limestone and dolostone
					X				Ilion/Shawangunk	Shale and dolostone; conglomerate and sandstone
			X	X					Goat Island/Gasport/Penfield/Sconondoa	Dolostone; limestone and dolostone
						X			Green Pond	Conglomerate
		Clinton	X	X	X				DeCew/Glenmark	Dolostone; shale
Silurian	Upper		X	X	X				Burleigh Hill/Rochester/Gates/Herkimer	Shale; dolomite and shale; sandstone
		Lower	X	X	X				Irondequoit/Thorold/Rockway/Dawes	Limestone and shale; sandstone; dolostone
		Medina	X			X			Green Pond	Conglomerate
									Grimsbey/Kodak/Power Glen/Whirlpool	Sandstone; shale and siltstone; sandstone
	Middle	Queenston Shale	X	X					Queenston	Shale
		Lorraine		X	X				Oswego/Pulaski/Frankfort	Sandstone and shale; sandstone and shale; shale and siltstone; shale
		Trenton		X	X				Hillier/Denley/Sugar River/Kings Falls/Selby	Limestones
				X	X		X		Utica/Snake Hill/Stony Point	Shale; shale and siltstone
							X		Glens Falls/Orwell	Limestones
		Black River		X	X				Watertown/Lowville/Pamelia/Isle la Motte	Limestones
		Chazy					X		Valcour/Crown Point/Day Point	Limestones
	Lower	Beekmantown-Wappinger					X		Tribes Hill/Copake	Dolostone, limestone, and siltstone; limestone
						X			Copake/Rochdale/Haleyton Lake (Hudson Valley area)	Limestone; limestone and dolostone; dolostone and siltstone
						X			Briarcliff/Pine Plains (Hudson Valley area)	Dolostone; dolostone, sandstone, and shale
		Upper-Middle-Lower				X			Inwood	Marble
	Upper-Middle	Beekmantown			X				Tribes Hill/Little Falls/Hoyt/Galway	Dolostone; limestone; sandstone and dolostone
							X		Providence Island/Fort Ann/Great Meadows/Whitehall/Galway	Limestone and dolostone; limestone, dolostone, siltstone; dolostone and sandstone
								X	Theresa	Dolostone, sandstone, and siltstone
		Middle-Lower						X	Potsdam	Sandstone

A



B



Figure 11. Karst features in the Rondout Valley in Ulster County, New York: *A*, heavily jointed and fractured Onondaga Limestone (note near-vertical bedding orientation of the rock, typical for sedimentary bedrock west of the Hudson River), and *B*, roadside ditch draining into small sinkhole-swallet feature near Stone Ridge, New York. Photographs by Paul Heisig, U.S. Geological Survey.

A



B



Figure 12. Glacial-related features common in Schoharie Creek Valley caves. *A*, Varved glaciolacustrine clay near the floor of the cave likely deposited during the Wisconsin glacial period; *B*, glacial boulders trapped in a cave passage. These features indicate the cave was present before and during the Wisconsin glacial period. Photographs courtesy of Art Palmer, professor emeritus, State University of New York at Oneonta.

Western and Central New York

Most bedrock in western to east-central New York dips to the south at approximately 30 to 50 feet per mile. Zones of allogenic recharge have been identified in central and western New York, topographically upgradient and south of specific karst units, such as the Onondaga Limestone and Lockport Group. Because of glacial erosion and the dip of the regional bedrock, the Onondaga Limestone is typically at or near land surface at its northern extent, creating a bedrock escarpment (cliff). However, south of the escarpment the Onondaga Limestone is buried by progressively thicker glacial deposits—mostly till and glaciolacustrine fine sand, silt, and clay, but locally sand and gravel (Staebitz and Miller, 1987). The Onondaga Limestone is considered a karst aquifer because of the amount of karst development that has occurred along joints and other fractures and nearly horizontal bedding planes. The Onondaga Limestone has been characterized as a principal aquifer in New York, which is defined as “an aquifer

known to be highly productive or whose geology suggests abundant potential water supply, but which is not intensively used currently as a source of water supply by major municipal systems” (New York State Department of Environmental Conservation, 2020).

In a similar fashion, the dolostone of the Lockport Group gently dips to the south and has a northern escarpment in western New York, but the escarpment is buried further to the east. At the Niagara escarpment, the bedrock is at land surface but further to the south, it is buried by thick glaciolacustrine silt and clay, especially in western New York (Kappel and Jennings, 2012). Owing to fine-grained sediment cover and the fact that the dolostone is not as easily solutioned as limestone (because dolostone, which is calcium magnesium carbonate, has different mineral characteristics compared with limestone, which is calcium carbonate), the Lockport Group is less likely to develop karst features. Some karst development in the form of sinkholes and springs has been documented in the Lockport Group but typically along bedding planes near the bedrock

surface (Yager and Kappel, 1987). Regionally, the Lockport aquifer system is generally confined to these bedding-plane structures and the weathered bedrock surface.

Numerous carbonate rock quarries are present in both the Onondaga Limestone and Lockport Group dolostone in this part of the State. Products derived from these quarries vary from large to small rip-rap rock, construction-base material, and agricultural lime. These quarries generally are dewatered to some extent to allow for the removal of the rock. The amount of water removed is generally greatest in the spring (especially if the quarry shuts down operation in the winter), but the amount of water removed varies between quarry operations. In general, more dewatering takes place from quarries in limestone as compared to those in dolostone due to the greater potential for solution-enhanced permeabilities (Kappel and Jennings, 2012).

Northern New York

In northern New York, the Trenton and Black River Group limestones and Beekmantown Group sandstone and dolostone that surround the Adirondack Mountains (fig. 1) have variable regional bedrock strike and dip. These regional differences in bedrock dip may limit the northern carbonate rocks from having a zone of allogenic recharge similar to the gently dipping, east-west trending carbonate-rock units of central and western New York. The Black River Limestone near Watertown is known for young karst development (shallow solution fractures, sinkholes, and cave systems), especially where these rocks are adjacent to surface water, such as the Black River (Waller and Ayer, 1975). As an example of this type of karst development, a **fluorescein** dye trace was completed in the Black River Limestone in December 2016 to determine the connection between some small karst features (swallets) and the Black River. The dye took just over 4 hours to move from the swallets to the Black River, a distance of 1,500 ft, and when the dye appeared, its color intensity was not substantially diluted (fig. 13).

The Trenton Limestone, on the other hand, is not known for karst development or for comprising a regionally extensive aquifer system (Waller and Ayer, 1975). The difference between these two units is that the Black River Limestone is generally a massive and pure limestone prone to dissolution at shallow depth and the Trenton Limestone is more argillaceous (shaley), thinner bedded, and less prone to solution.

The Beekmantown Group of northern New York unconformably (former overlying bedrock units not present because of erosion millions of years ago) overlies the Precambrian Shield (Bernstein, 1992); the deep part of the Beekmantown Group is generally a sandstone, but the shallow units are dolostone. The aquifer within the Beekmantown Group is generally present at the weathered bedrock surface and within the relatively shallow fractured bedrock resulting from glacial rebound of the land surface. Fracture density and orientations vary across this system (Cooper and Mylroie, 2015), and

karst development is considered young and slowly developing. Bedrock quarries are present in all carbonate units in this region. Dewatering volumes necessary to maintain quarry operations are dependent on the type of bedrock being mined and the location of the quarry in relation to its regional topographic position within the local water table, with greater dewatering volumes being produced when the quarry is below the local water table.

Eastern and Southeastern New York

In the eastern part of New York, the strata of the Onondaga Limestone and Helderberg Group transition from dipping gently to the south in the Mohawk River Basin to steeply dipping along the western side of the Hudson River Valley. The eastern Mohawk basin has New York's most strongly developed karst, including the oldest known cave systems in the northeastern United States. Lauritzen and Mylroie (2000) have dated stalagmites in some caves to be more than 350,000 years old, indicating cave development through several complete glacial cycles (Cooper and Mylroie, 2015). These caves (figs. 14, 15, and 16) have been explored since the mid-1800s and have been extensively studied since the 1950s (Baker, 1976; Palmer, 1991; Palmer and others, 1991, 2003; Lauritzen and Mylroie 2000; Weremeichik and Mylroie, 2014; Cooper and Mylroie, 2015). It is likely that many more cave systems have yet to be discovered in this area. Numerous large carbonate quarries are present in this part of the State and, depending on their location and elevation within the well-developed karst aquifer system, need either substantial or little dewatering to carry on their quarrying operations. At Howe Caverns in Schoharie County, a quarry operation just down-gradient from the caverns affected the flow and water level in the caverns until an inadvertent breach of the karst aquifer in the quarry was sealed.

Along the western Hudson River Valley, the tectonic forces that created the valley have caused the sedimentary rocks on the west side to become steeply inclined and fractured. Because of their steep orientation, carbonate rock here is less prone to deep groundwater infiltration as the solution process must have an outlet to the surface to enhance karst development. The age of karst here is varied, dependent on its topographic location. The karst features that have been reported are generally confined to near-surface exposures in these bedrock units (Cooper and Mylroie, 2015). In areas such as Kingston and Rosendale in Ulster County, extensive natural cement mines were developed beginning in the early 1800s. The miners followed veins of the argillaceous (shaley) Rondout Formation limestone that in some places are inclined as much as 70 degrees from horizontal (fig. 17). Other carbonate quarries are present throughout the region, which can have variable amounts of dewatering required during the quarry production season. Evaporite karst is not present in the eastern half of New York because there are no gypsum or halite deposits present in that area (fig. 1).



Photograph courtesy of S. Mooney, O'Brien and Gere Engineers.



Photograph courtesy of S. Mooney, O'Brien and Gere Engineers.



Photograph by W. Kappel, USGS



Photograph by W. Kappel, USGS

Figure 13. Dye trace in Black River Limestone, near Watertown, Jefferson County, New York. *A*, Injection of fluorescein dye into small closed depression where water flows laterally into a bedrock fracture (movement indicated by white arrows), and dye flowing *B*, in down-gradient bedrock fracture, *C*, from foundation drainpipe adjacent to the Black River, approximately 4 hours after injection, and *D*, into the Black River about 1,500 feet from dye injection point shown in *A*.

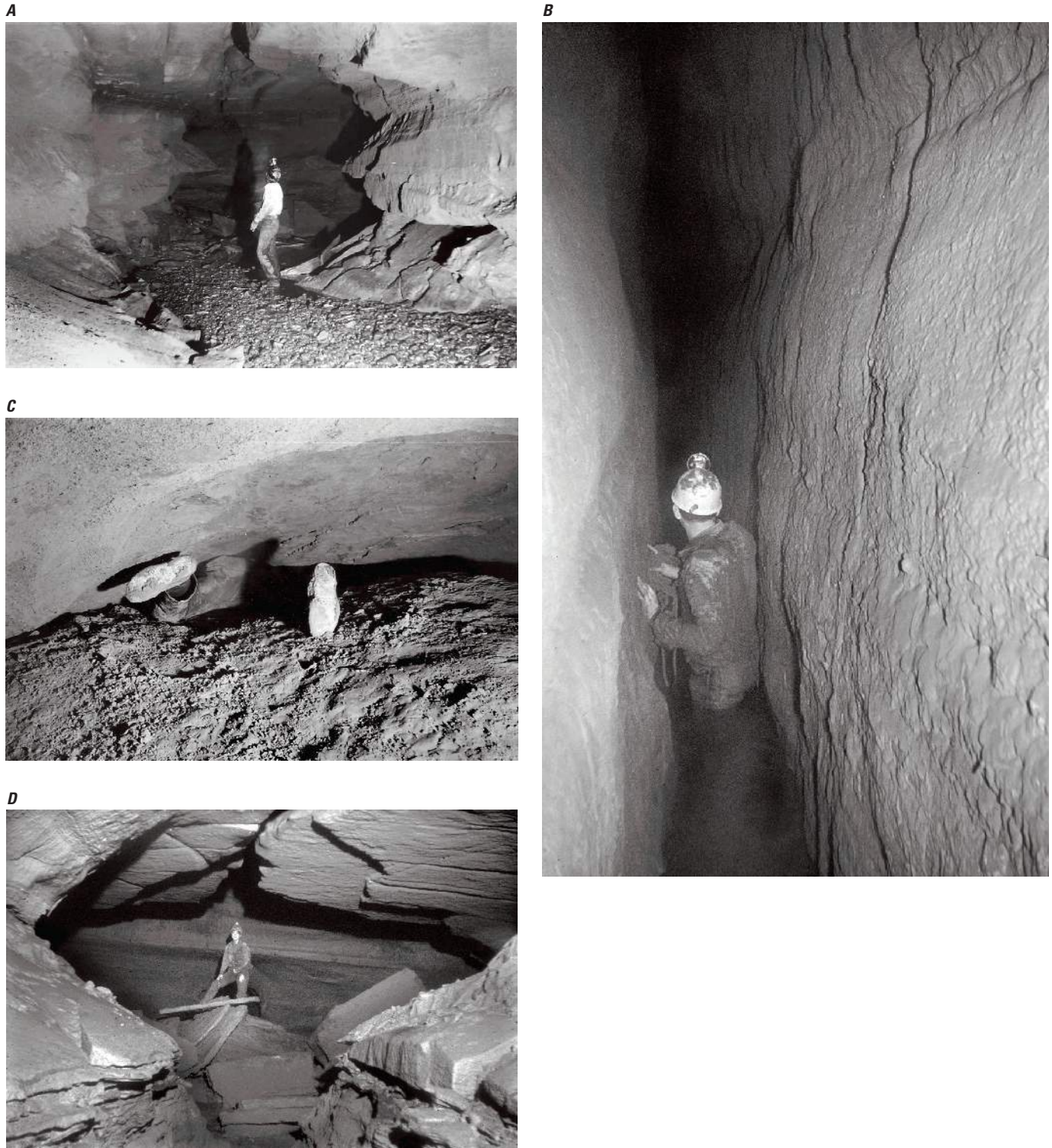


Figure 14. Cave passage features in Knox Cave in Albany County, New York. *A* and *B*, Dissolution features in cave; *C*, glacial sediments found within most cave passages; *D*, Coeymans Limestone in the ceiling and Manlius Limestone below. Photographs courtesy of Art Palmer, professor emeritus, State University of New York at Oneonta.

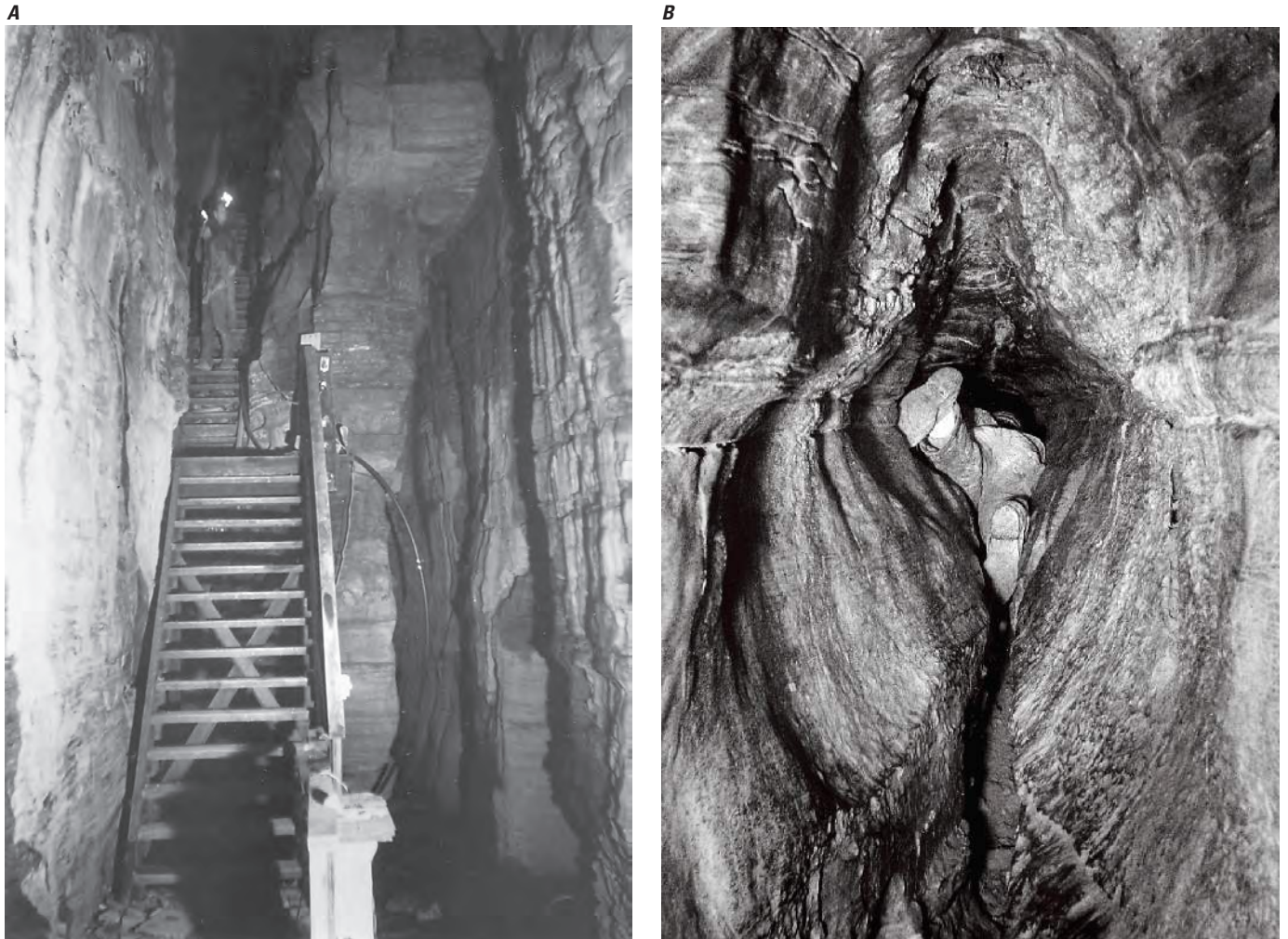


Figure 15. Features in Knox Cave in Albany County, New York. *A*, Linear passage along major joint in Manlius Limestone and *B*, the Gun Barrel cave feature along the Manlius Limestone (above) and Rondout dolomitic limestone (below) contact. Photographs courtesy of Art Palmer, professor emeritus, State University of New York at Oneonta.



Figure 16. Cave passages from the valley of the Cobleskill Creek, a tributary to Schoharie Creek, in Schoharie County. *A*, Joint-controlled fissure passage in Coeymans Limestone; *B*, 78-foot-deep shaft enlarged by a major sinking stream, also in Coeymans Limestone; *C*, downstream passage in McFails Cave in Manlius Limestone; and *D*, calcite dripstone deposits in Manlius Limestone passageway. Photographs courtesy of Art Palmer, professor emeritus, State University of New York at Oneonta.

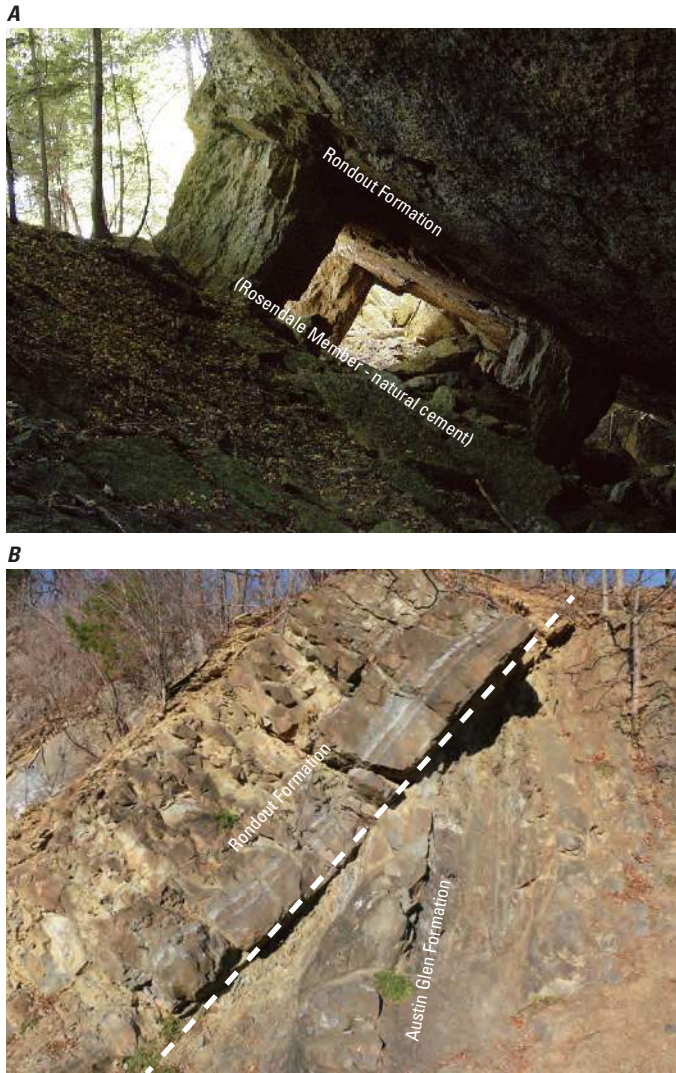


Figure 17. West side of the Hudson River Valley, New York. *A*, Entrance to a natural cement mine at Rosendale, New York, showing the dip of the bedrock; and *B*, Taconic unconformity (white dotted line) at Catskill, New York, between mid-Ordovician Austin Glen Formation and late Silurian Rondout Formation. Note the high-angled nature of the dip of both bedrock units. Photographs courtesy of Steven Schimmrich, Ulster Community College, State University of New York.

Marble of the Wappinger Group is present in the downstate region of New York into the New York City area (Inwood Marble) but other marble is present as inclusions in the Precambrian metamorphic rocks of the Adirondack Mountains in northern New York. As a result of the Acadian orogeny in the downstate area, the limestone bedrock in this region is highly deformed but the extent of marble deposits is limited (Cooper and Mylroie, 2015). During the construction of the Catskill and Delaware water-supply conduits from their respective watersheds to New York City, when borings and construction of the conduits crossed under the Rondout valley,

workers encountered glacial and interglacial bedrock valleys, overthrust faults, and numerous caves and clay-filled cavities and joints, about 800 ft below land surface. At its greatest depth, these features were below about 540 ft of unconsolidated material and an additional 260 ft into bedrock. In some cases, the cavities extended for vertical distances of 20 ft or more (Fluhr, 1973). The Inwood Marble in the New York City area was also intersected during conduit construction. In some cases, during the drilling of test borings, the marble bedrock was heavily fractured and eroded to depths greater than 300 ft, and a substantial amount of water had to be grouted or otherwise removed to allow for construction of the conduits (Fluhr and Terenzio, 1984). The deep karst development noted in Fluhr (1973) and Fluhr and Terenzio (1984) likely formed when glaciers were active and the high hydraulic pressure at the glacial ice-bedrock interface created ideal conditions for karst development. During deglaciation, thick sequences of glacial sediments were deposited, especially in the deeper bedrock valleys, possibly slowing karst development unless there was an active flow system to continue the karst development process.

Previous U.S. Geological Survey Karst Studies in New York

In the early 1980s, the USGS, in cooperation with the Erie County Department of Environment and Planning, monitored groundwater-level declines in a 2.2-mi-long by 800-ft-wide closed depression area in eastern Erie County (Staubitz and Miller, 1987; [fig. 18](#)). More than 60 domestic water wells and several wetlands went dry and several new sinkholes developed or expanded. The water-level decline was caused by the combination of groundwater withdrawal at a limestone quarry and the diversion of that water away from a down-gradient sinkhole-swallet in the eastern end of the large closed depression. The routing of the quarry water away from the former receiving swallow to an adjacent surface-water stream removed the allogenic recharge from the closed depression's groundwater watershed west of the quarry and caused the water-level declines noted in many homeowner wells within the depression further to the west.

In 2008, the USGS, in cooperation with the NYSDEC, initiated a pilot study to characterize the recharge settings of the carbonate karst in Genesee County in western New York ([fig. 1](#)) after a number of groundwater contamination issues were reported during the previous decade (Reddy and Kappel, 2010). Gently dipping Onondaga Limestone is present as an east-west band across Genesee County. The Onondaga Limestone crops out to the north along an escarpment and a 2- to 5-mi-wide band of the limestone is covered by glacial deposits to the south. A series of 1:24,000-scale maps was constructed and showed areas where focused recharge can most readily infiltrate into the karst carbonate bedrock and potentially contaminate the groundwater-flow system (Reddy

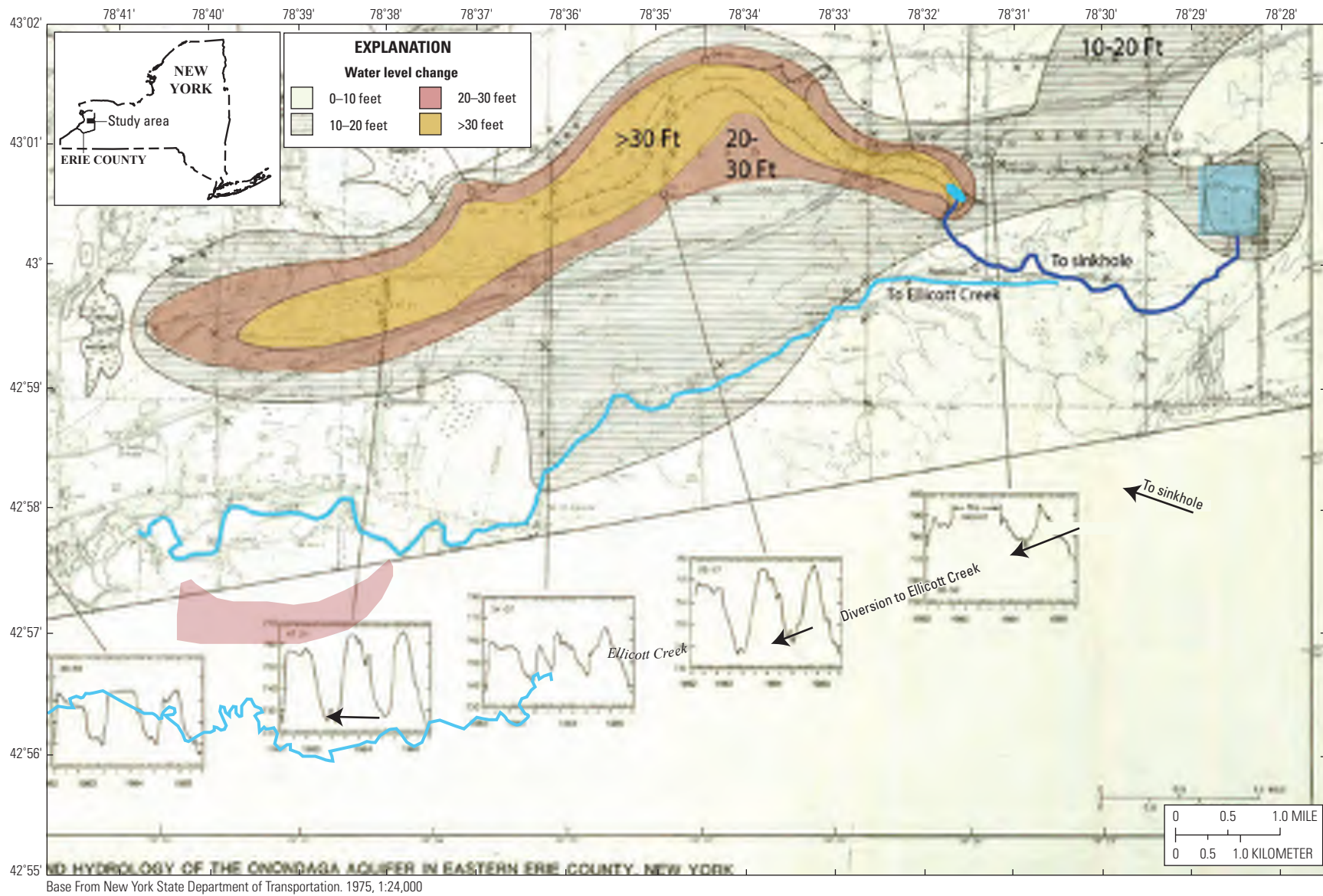


Figure 18. Decline in water levels in a large closed depression, western New York, from April 1981 to October 1985, indicating the effect of diverting quarry dewatering flow from a downstream sinkhole-swallet to Ellicott Creek; modified from Staubitz and Miller (1986, pl. 4). This diversion removed groundwater from the downstream sinkhole, which caused water-level declines greater than 30 feet in some down-gradient homeowner drinking-water wells.

and Kappel, 2010). Evaporite karst (shale with gypsum) north of the Onondaga Limestone escarpment was not characterized in that study. Using information from the USGS study of Genesee County, Cornell University and the NYSDEC developed manure management guidelines for karst areas in the county, including where concentrated animal feedlot operations were applying manure within karst areas of the County (Czymmek and others, 2011).

The same manure-management practices have been encouraged in other parts of State where the risk of applying manure may impact surface-water and groundwater resources. For example, Madison County (in central New York) has utilized these same manure-management criteria and several other counties in New York have considered following these guidelines to better protect their groundwater resources where karst is present (Karl Czymmek, Cornell University, oral commun., February 2017). Any farm that has a concentrated animal feedlot operation permit is required to follow these or previously designated guidelines to protect groundwater (New York State Department of Environmental Conservation, 2017b).

Between 2001 and 2011, the USGS, in cooperation with the U.S. Environmental Protection Agency (EPA), assisted with a study of volatile-organic compound contamination in the carbonate-bedrock aquifer system in Cayuga County between Auburn and Union Springs (a distance of 7 mi; Eckhardt and others, 2011). The USGS collected and compiled geophysical logs from 93 monitor and water-supply wells in the carbonate-bedrock aquifer between Owasco and Cayuga Lakes, two of central New York's Finger Lakes. The USGS analyzed geophysical logs along with core samples from drilled bedrock wells, inspected outcrops of the bedrock to define the stratigraphic units penetrated by wells, evaluated flow zones within the bedrock aquifers, and developed and installed multilevel monitoring systems for the study (U.S. Environmental Protection Agency, 2012). The USGS also assisted the EPA in a similar fashion in western New York near the town of LeRoy in northeastern Genesee County. In 1970, a railroad tanker car derailment spilled thousands of gallons of trichloroethylene into the local carbonate bedrock (Onondaga Limestone), contaminating drinking water wells (U.S. Environmental Protection Agency, 2017).

Karst Development in New York

The development of karst is variable across New York but is generally related to the geologic characteristics of the rock (carbonate versus evaporite), the quantity and quality of water that the rock is exposed to, and the length of time that the karst process has been occurring. The repeated glaciation of New York has assisted with karst development as glaciers have removed overburden and injected water directly into bedrock, enhancing karst development. However, at the same

time, repeated glaciation has destroyed former karst systems by eroding the karstic bedrock and creating a postglacial environment to start the karst-forming process once again.

Western and Central New York

In western and central New York, the gently southward dipping Onondaga Limestone and Lockport Group dolostone have young or early karst features, especially near their escarpments. Apparently during glacial advance, former escarpments were heavily eroded back to more competent bedrock, and the new escarpment initially had limited karst development. The land surface downgradient from each escarpment was usually mantled by glacial and postglacial sediments, which limited karst development until glacial rebound occurred, allowing the dissolution of bedrock joints and fractures as these features opened due to the land-surface rebound processes. The Onondaga Limestone is more prone to karst development than the dolostone of the Lockport Group because of its different geochemical composition. Although karst solution features are present in both units, the Onondaga has more well-developed karst flow systems (large closed depressions, early conduit-cave development, and sinkhole-related subsidence) than the Lockport Group (Staubit and Miller, 1987). For example, in the town of Clarence (Erie County), a bowling alley was built in the early 1960s on a farm property known as "The Sinks" (The Clarence Museum, written commun., February 2017). The building collapsed into a sinkhole in the early 1980s, and reportedly, a section of New York State Route 5 in front of the bowling alley also slightly subsided at the same time, although the subsidence did not close the roadway. The remaining part of the bowling alley building was demolished, the sinkhole filled, and the site today [2020] remains undeveloped. Although both the Onondaga and Lockport bedrock units have some solution channel and modest cave development, these features more commonly occur near their escarpments and along adjacent steep erosional features (such as along the Niagara River gorge), but as indicated in the bowling alley story, solution features (sinkholes, closed depressions) have occurred elsewhere in the karstic rock.

Just north of the Onondaga Limestone escarpment, gypsum deposits are present within the underlying Salina Group shales (fig. 1). Karstification developed where gypsum deposits are close to the land surface and, in some cases, over former gypsum mines. In western New York, thin beds of gypsum (3 to 5 ft thick) have experienced extensive gypsum mining from the 1800s through the late 1990s. The extent of these mines is roughly from the Clarence area in Erie County eastward through parts of Genesee County to the southwestern part of Monroe County, in the Garbutt area. From Garbutt to just east of Syracuse (Onondaga and Madison Counties), gypsum was obtained from shallow open-pit quarries as the gypsum seams are discontinuous in this part of the State and more easily accessed from the land surface.

Where these former subsurface mines were developed, dissolution of the remaining gypsum support pillars or partial collapse of the mine roof has led to some land-surface subsidence and closed depression development. A number of geologic studies were performed in the town of Clarence, but north of the Onondaga Limestone escarpment, between 1972 and 1989 to determine whether residential and commercial development could occur over a part of the former National Gypsum Company mine (HydroTech Ground Water Consultants, 1989). A summary of these various studies indicated that future sinkhole development was possible because several sinkholes were already present over the mine in 1972, but the timing and extent of such development was difficult to quantify. The site over the former gypsum mine and other places nearby have since been fully developed.

In the town of Wheatland in southwestern Monroe County, the 460-acre Oatka Creek Park is maintained for hiking and cross-country running and skiing along 6.5 mi of trail. In the late 1990s, the USGS was asked why the land surface of the park was experiencing subsidence. A surface examination of the park revealed linear subsidence patterns generally aligned in a north-south direction. A search of the town's history (Schmidt, 1953) and a summary of gypsum resources in New York State (Newland, 1929) revealed that there were at least three former gypsum mines along the southern side of Oatka Creek in this part of the county. The mines had exploited gypsum seams that surfaced along the southern side of Oatka Creek near stream level and mine adits (dipping-to-the-south tunnels) were dug to remove the gypsum. In this case, the present-day park was built over the former Garbutt Gypsum Mine, which utilized such adits (Schmidt, 1953). Subsequent to these findings, the Monroe County Parks Department contracted with a private firm to perform a geophysical (electrical resistivity) survey to confirm the location of the adits. Results of the Oatka Creek Park survey indicated "the presence of numerous sinkhole and subsidence features related to either collapsed shafts [that is, subsidence features related to the bedrock collapse over the trend of the adits] or open-pit mining of gypsum near Oatka Creek" (Forrest Environmental Services, Inc., 2001, p. 2).

As a result of the amount of former gypsum mining in Wheatland, a mine subsidence hazard district was created as a zoning overlay. The stated purpose of the district was, in part, "[i]n the interest of the public health, safety, and welfare, these regulations are intended to protect development located in an area in the Town of Wheatland that has been subjected to underground mining, with much of such area [sic] not provided with maps of the undermining. More specifically, the purpose of these supplementary controls is to prevent the erection of habitable structures in an area that could be unsafe due to undermining, to minimize danger to public health..... due to subsidence" (Town of Wheatland, 2015).

In central and eastern New York (east of Rochester), the gypsum beds become thin to nonexistent because gypsum is present only as pockets and lenses (Tennissen, 1952), which

were mined from the land surface. Though these pockets are considered small, apparently some land-surface subsidence has occurred, although such subsidence has been reported in just a few areas. For instance, in Syracuse in Onondaga County, gypsum dissolution may have caused nearly 30 ft of land-surface subsidence since the last period of glaciation, about 12,000 years ago (Phillips, 1955). Such gypsum-dissolution subsidence likely occurred elsewhere within these limited gypsum deposits, but without substantial urban development, land-surface subsidence may not have been noticed other than possible development of isolated sinkholes or closed depressions, some of which may have developed into wetland areas. In the Syracuse area, sinkhole and subsidence have been reported, and in one case, an investigation of the local geology revealed the presence of a heavily weathered shale zone at the bedrock surface and a vertical zone of heavily weathered gypsumiferous shale within surrounding unweathered shale that has anhydrite- and gypsum-bearing seams and inclusions (fig. 19) similar to what was indicated by Phillips (1955).

The Salina Group, and in particular the Syracuse Formation, contains beds of halite (rock salt) interbedded with shale (fig. 1). Near the outcrop of the Salina Group at land surface, any halite that may have been present was easily removed by dissolution during and following glacial periods when meltwater was likely forced into the heavily fractured rock by the overburden pressure of the glacier, dissolving halite that interacted with the injected water (Goodman and others, 2011). Any subsidence related to this solution process happened at that time and is of little concern presently. But halite has been and continues to be mined in the subsurface either by solution- or hard-rock-mining techniques in central New York, well to the south of the former outcrop area. There have been cases of land-surface subsidence related to both forms of halite mining. Though the extent of subsidence is locally important—such as subsidence from solution-well mining in the Tully Valley near Syracuse (Hackett and others, 2009) or room-and-pillar mining of halite in the Genesee Valley south of Rochester (Yager and others, 2012)—these types of halite-related subsidence are not extensive across the central and western part of the State.

Northern New York

In northern New York and along the western side of the Adirondack Mountains, strata of the Black River and Trenton Groups are nearly flat lying and have been fractured due to glacial advance and recession and continued tectonic doming of the Adirondack Mountains (Isachsen, 1981). Karst development in this bedrock unit is considered young as it is primarily influenced by recent glaciation and its proximity to flowing surface water and the zone of annual groundwater fluctuation (Waller and Ayer, 1975). In the vicinity of Watertown, the limestone of the Black River Group has karst features and "a vast network of caverns of varying heights and expanses with intricate ramifications and labyrinthine corridors [sic]

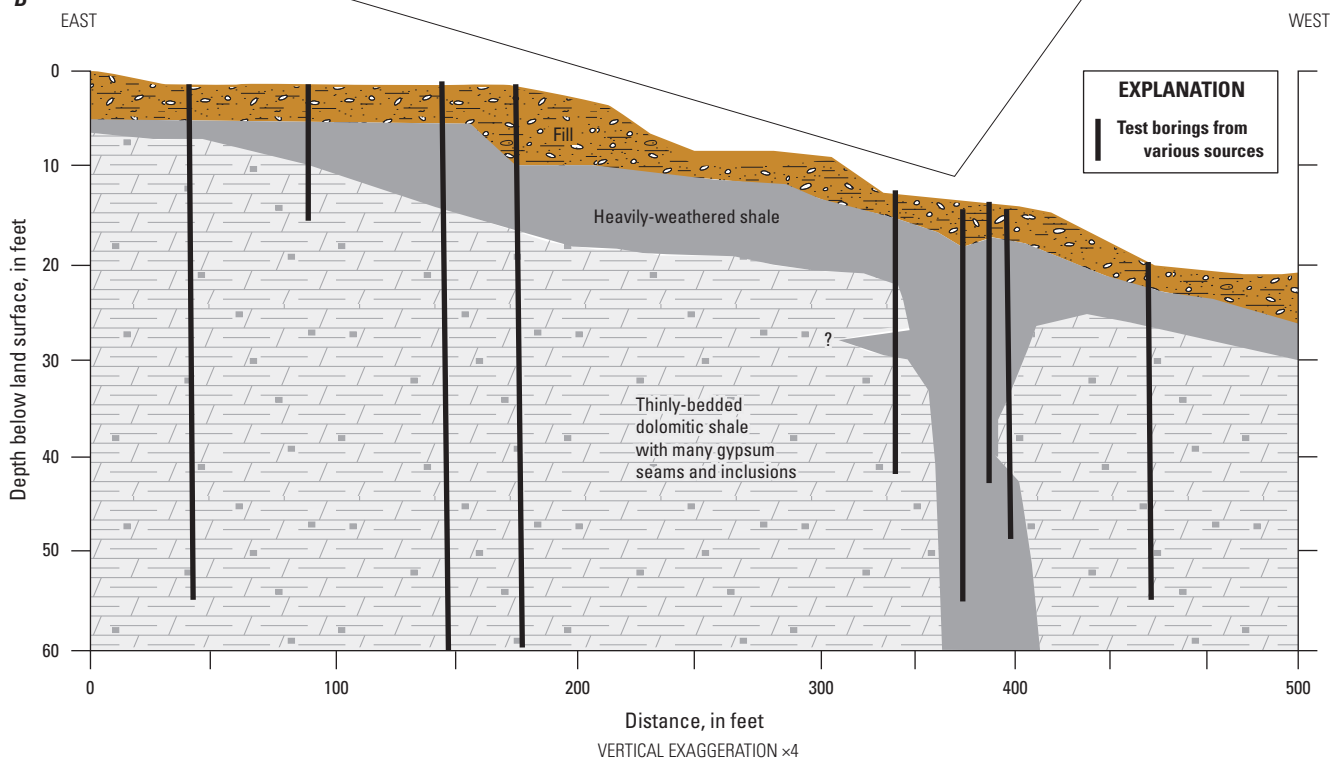
A**B**

Figure 19. Sinkhole development in evaporite karst bedrock in Syracuse, Onondaga County, New York. **A**, Parking lot subsidence (red circles) in area where deeply solutioned bedrock is present, and closeup of surface area of one of the sinkholes. **B**, Schematic cross section of the depth to heavily weathered shale and more competent shale with gypsum seams and inclusions beneath, and a deep zone of gypsum-solutioned bedrock where continual land-surface subsidence (shown in **A**) has occurred.

occupy the thick and expansive deposit of limestone over which the city of Watertown has been built” (Northern New York Genealogy, 2001). Some of the caves of various sizes and lengths were used to store beer during the summer season, another cave was an attraction for a local amusement park where cave boat tours were given, and several caves in Watertown were considered for use as bomb shelters during the Second World War. Of note is that the entrances to all these caves are presently [2020] sealed.

The Trenton Group, which overlies the Black River Group, does have some vertical fracturing but is less prone to karst development because of its chemical makeup: an argillaceous (shaley) limestone with thin limestone interlayered with shale throughout the Trenton sequence. The Beekmantown Group, primarily in northern New York but also present along the east side of the Adirondack Mountains (fig. 1), is mostly composed of dolostone with interbedded limestone and sandstone. Where the Beekmantown bedrock is near the land surface, it has been weathered and fractured by glacial advance and retreat (glacial rebound), which does enhance some karstic development. This is especially the case where the bedrock is associated with underlying dolostone or permeable sandstone, which allows surface water to move through an upper dolostone layer to a point of discharge or into a deeper bedrock flow system. Some limestone in this region has also been metamorphosed into small bands of marble that also exhibit karstic attributes.

Eastern and Southeastern New York

Karst in eastern New York is well developed because of the great thicknesses of carbonate bedrock (Onondaga and Helderberg Group) and the extended period of time in which the bedrock has been exposed to repeated glaciation and interglacial erosion, especially in the eastern Mohawk River basin (Baker, 1976; Cooper and Mylroie, 2015). Because of the presence of this well-developed karst, several studies have linked karst and the need to protect groundwater from contamination. “These [karst] features complicate the flow of ground water and create special problems regarding water supply. Due to thin soils, there is a potential for widespread ground water contamination and a limited ability to support foundations and building loads. There are few regulatory controls devoted to protecting karst areas” (Schoharie Planning and Development Agency, 2002).

A study of the Cobleskill Plateau by Braun (2000, p. 62–63) indicated that “Of the 40 wells for which chemical analysis was available, 87.5 percent showed some level of contamination from nitrates and 82.5 percent contained phosphates... Of the 43 wells tested for bacteria using a presence or absence test, 81.4 percent showed a presence. These figures indicate a strong degree of interaction of surface water with well water on the limestone plateau. All the wells [tested] on the Cobleskill Plateau are located in an area where dairy farming is the number one industry. One of the wells, which had

high nitrate levels, had raw manure coming through the water system...as reported by the homeowner. The well drew water from 116 ft below the surface [likely the location of the well pump, as the water level in the well was not noted]. Adjacent to the house are crop fields where sinkholes form and are filled with fieldstone... The fieldstones fill the sinkholes, but they do not seal the sinkholes, which have a direct connection with groundwater.”

The Helderberg-Cobleskill Plateau region (Baker, 1976; Palmer and others, 2003; Cooper and Mylroie, 2015) is an incised carbonate terrain resulting from repeated periods of glaciation and erosion, which, over time, has created solution-derived fracture conduits and well-developed cave systems (figs. 14, 15, and 16). The glacial and interglacial processes bisected the land surface to create a number of hydraulically isolated carbonate rock “islands” where vertical bedrock joints and sinkholes intersected south-dipping bedding planes to create a classic **karst topography**: upgradient losing streams and swallets flowing to downgradient springs, some of which might exhibit artesian flow where former, lower spring outlets were blocked by more recent glacial debris (Palmer and others, 2003). The area of Schoharie, Albany and Greene Counties (Helderberg-Cobleskill plateau) has the oldest known and largest number of well-developed, most-explored, and documented cave systems in New York (fig. 20). Many of these cave systems have been mapped, and some cave-catchment areas have been defined using dye tracing techniques.

Further downstate, along the western side of the Hudson River valley, the Onondaga and Helderberg Groups exhibit localized karst development. A study of the New York City water supply conduit flowing from the Rondout Reservoir through the West Branch Tunnel under Wawarsing (fig. 21) indicated a hydraulic connection between the unlined conduit and the overlying bedrock and near-surface unconsolidated aquifers (Stumm and others, 2012). During construction of the West Branch Tunnel, this section of the tunnel was observed to have been highly faulted and weathered, had inflow of more than 9,000 gallons per minute, and required more than 20,000 bags of concrete and steel reinforcements to stabilize the bedrock (Stumm and others, 2012). This condition indicates fracture solutioning and enhanced permeability within the carbonate bedrock and was likely influenced by the active geologic history of the Hudson River valley creating extensive faulting within the bedrock.

Along Interstate 87 (New York State Thruway) near the city of Saugerties in Ulster County, the use of road salt on the interstate highway has apparently affected a number of homeowner wells that were drilled into the steeply dipping Onondaga Limestone. A nearby water line was extended to these homes to resolve the problem (Paul Rubin, HydroQuest, written commun., January 2016).

There is a number of named cave systems in this region (fig. 20) but far fewer than in the same bedrock units just to the north. Further south, the Inwood Marble also exhibits some karst features, although the amount of karst is limited

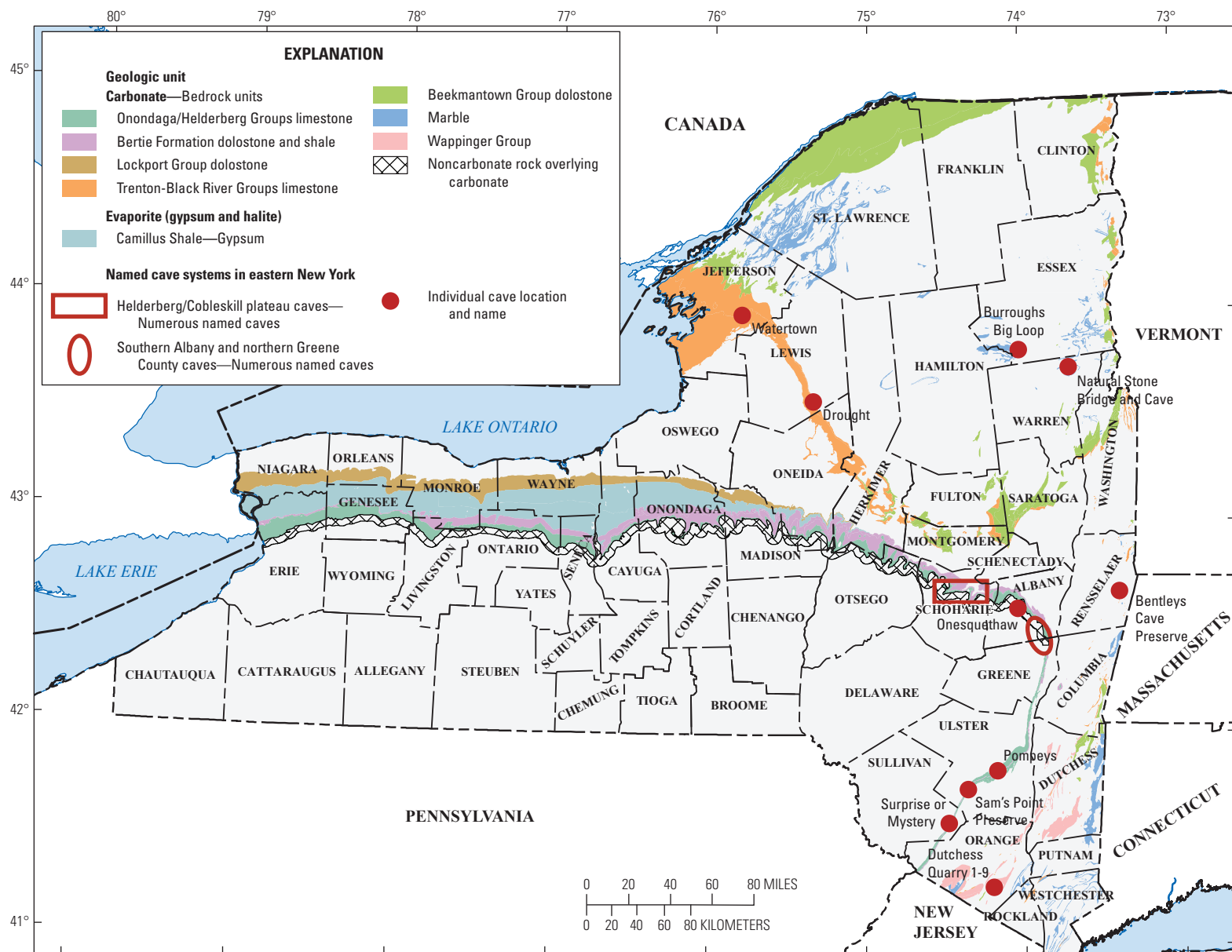


Figure 20. Selected named cave systems in eastern New York.

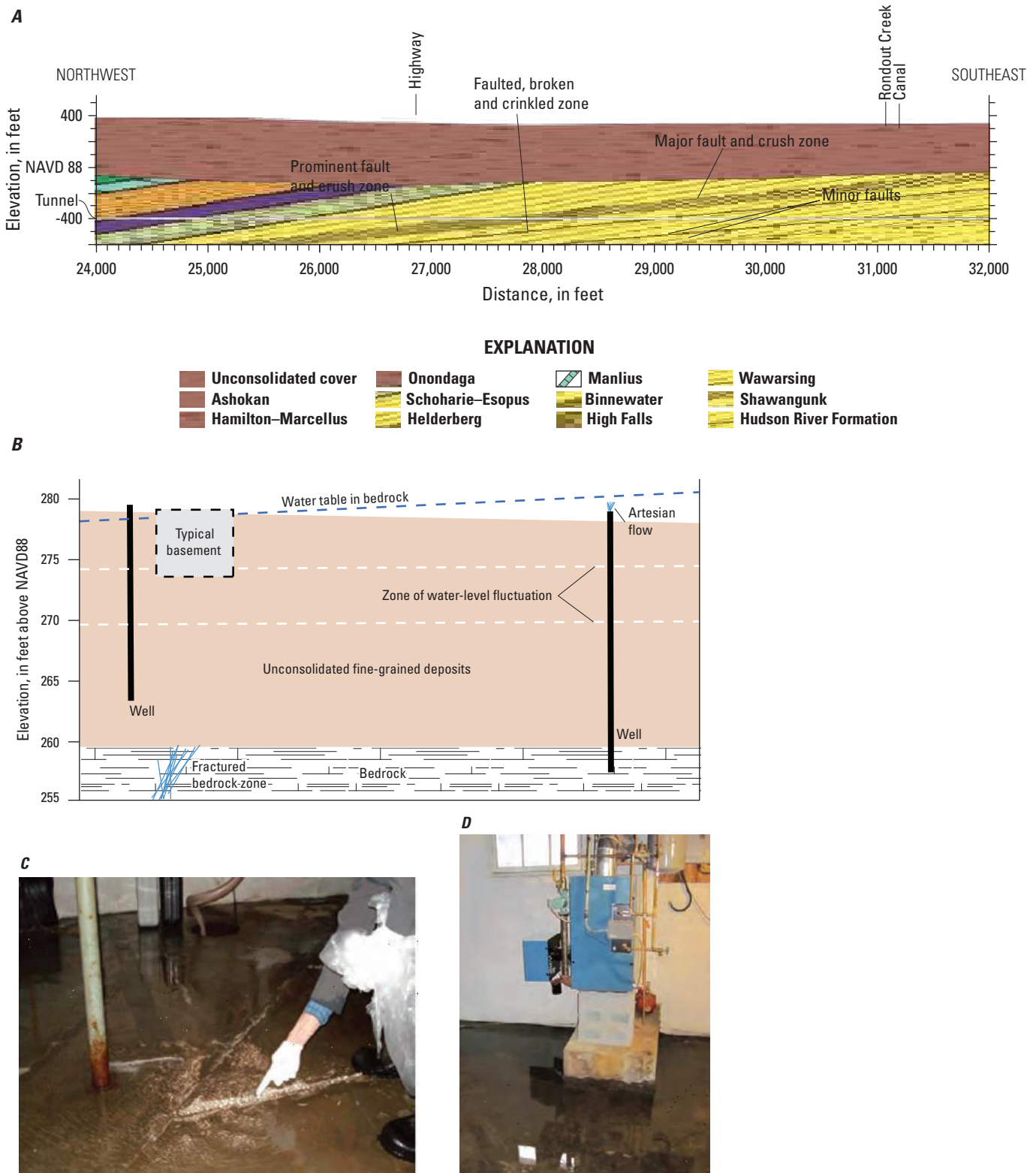


Figure 21. Hydrogeologic conditions at Wawarsing in Ulster County, New York. *A*, Geologic cross section for the Rondout tunnel near Wawarsing, showing bedrock types and fracture-fault locations; modified from Stumm and others (2012); *B*, schematic section of the water-table configuration for unconsolidated and bedrock aquifers. *C* and *D*, Flowing artesian conditions in flooded Wawarsing area basements; from Stumm and others (2012). NAVD 88, North American Vertical Datum of 1988.

by the small extent of the formation and the amount of urban development that has obscured the expression of karst features at land surface.

Closed-Depression and Focused-Recharge Inventory

The objective of the geographic information system (GIS) closed-depression and focused-recharge analyses conducted for this study was to develop a comprehensive inventory of all closed depressions proximal to carbonate, evaporite, or marble units within the State. The distribution of these bedrock units in New York form the basis of the study area. The inventory is

restricted to an area defined by bedrock lithologies where karst is known to be present. However, no inference can be made that a mapped closed depression is karstic in origin. Individual evaluation of each inventoried depression would need to be conducted to determine the processes that created the feature. That level of effort is beyond the scope of this study.

A closed depression is defined as an enclosed area lower than the surrounding area that has no surface-drainage outlet and from which water escapes only by evaporation or sub-surface drainage (that is, an area of focused recharge). On USGS topographic maps, a closed depression is indicated by a hachured contour line forming a closed loop (Natural Resources Conservation Service, 2017). Examples of closed depressions in a karst area are shown in [figure 22](#). The map representation applies to closed depressions of both natural and anthropogenic origin. Many of the closed depressions

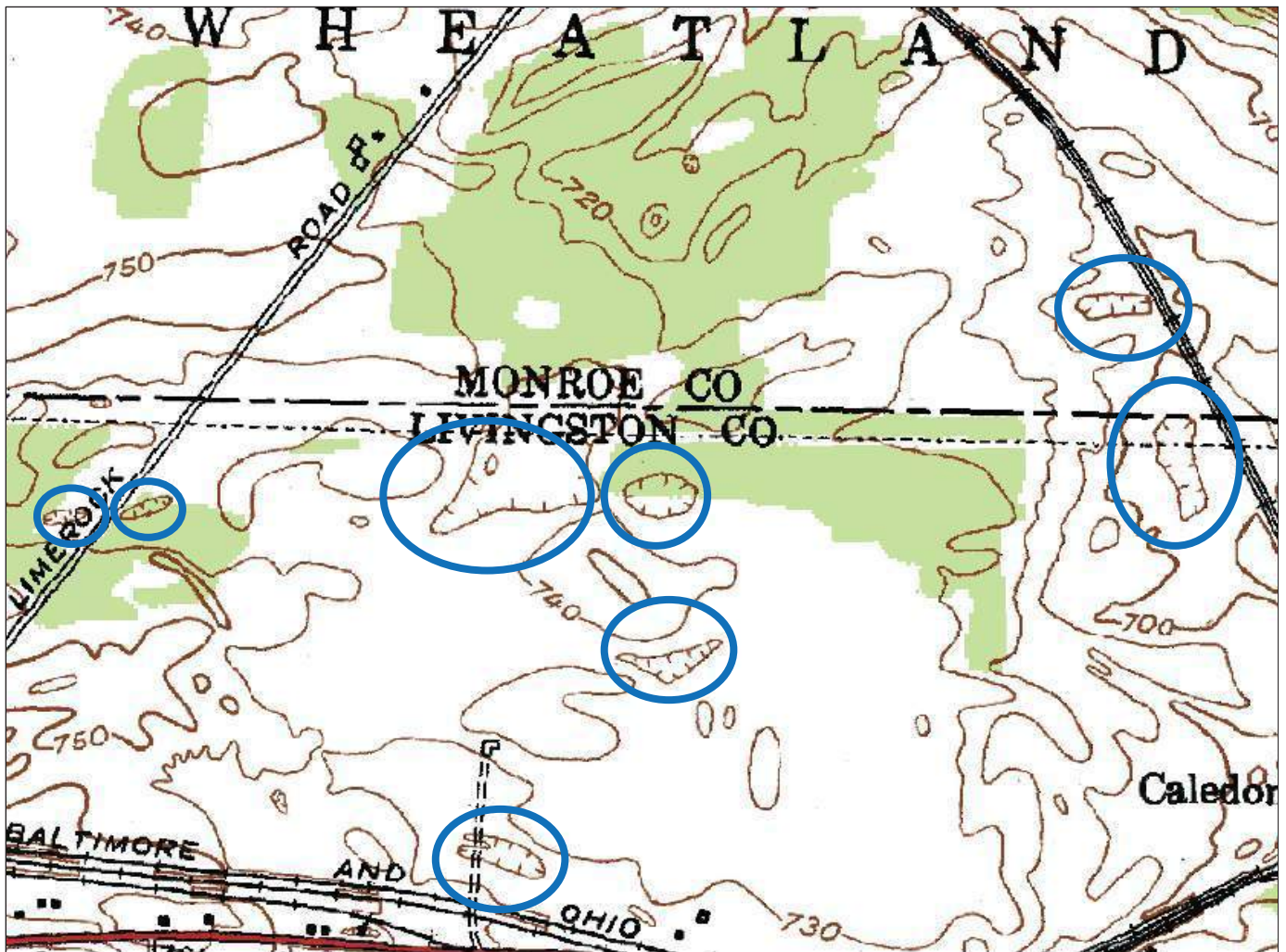


Figure 22. Examples of closed depressions as they appear on a topographic map; modified from U.S. Geological Survey (1950). Closed depressions are indicated within blue circles.

included in this inventory, though not the result of karst processes, are within or adjacent to a karst landscape and could contribute to focused recharge.

Study Area

The study area boundary adopted for the GIS analyses was created by intersecting an index of USGS 1:24,000-scale, 7.5-minute quadrangle maps (U.S. Geological Survey, 2014) with data containing selected bedrock geologic units (table 2; Horton and others, 2017). The final study area boundary covers more than 20,000 square miles, equivalent to 38 percent of New York State and transecting 42 counties (fig. 23).

Data Sources

Data acquired for the GIS analyses can be grouped into two categories: (1) source data for identifying closed depressions and (2) ancillary data used to assign geologic, soil, and land cover characteristics to the inventoried closed depressions

(table 3). The spatial relation between ancillary characteristics and closed depressions can be used to assess which closed depressions have a greater potential for contributing focused recharge.

Closed Depressions

The closed depressions were derived from three data sources and were compiled in the following order: (1) digital contour database of closed depressions, (2) digital raster graphic database of closed depressions, and (3) light detection and ranging (lidar) database of closed depressions. All three databases are from Reddy and others (2020). There is no duplication of features among the three databases. Additionally, the closed depressions inventoried were compared with closed depressions mapped in other published geospatial data to eliminate duplication with those datasets. The datasets referenced were New York State Department of Environmental Conservation (2017a) and U.S. Geological Survey (2013).

Table 2. Reclassified bedrock geologic units for karst aquifers in New York.

[Geologic units are from Horton and others (2017). —, not designated]

Major unit 1	Major unit 2	Major unit 3	Formation or unit name
Onondaga			
Limestone	Chert	Shale; conglomerate	Glenerie Formation
Sandstone	Limestone	—	Oriskany Formation
Limestone	Sandstone	Chert	Onondaga and Bois Blanc Limestones
Limestone	Chert	—	Onondaga Limestone
Shale	Limestone	Siltstone	Onondaga Limestone
Limestone	Dolostone (dolomite)	Sandstone; shale; conglomerate	Undifferentiated Lower Devonian and Silurian rocks
Siltstone	Limestone	Sandstone; dolostone (dolomite); shale	Rondout Formation
Akron			
Limestone	Dolostone (dolomite)	—	Helderberg Group
Dolostone (dolomite)	Shale	—	Akron Dolostone
Dolostone (dolomite)	Shale	Limestone	Cobleskill Limestone
Limestone	Shale	Dolostone (dolomite)	Cobleskill Limestone
Dolostone (dolomite)	Shale	Evaporite	Syracuse Formation
Camillus			
Shale	Dolostone (dolomite)	Evaporite; black shale	Camillus, Syracuse, and Vernon Formations
Shale	Dolostone (dolomite)	Evaporite	Camillus and Syracuse Formations
Shale	Black shale	—	Vernon Shale

Table 2. Reclassified bedrock geologic units for karst aquifers in New York.—Continued

[Geologic units are from Horton and others (2017). —, not designated]

Major unit 1	Major unit 2	Major unit 3	Formation or unit name
Lockport			
Black shale	Dolostone (dolomite)		Ilion Shale
Dolostone (dolomite)	Limestone	—	Lockport Group
Trenton-Black River			
Shale	Limestone	Dolostone (dolomite); conglomerate	Poultney Formation (“A” Member)
Limestone	—	—	Balmville Limestone
Limestone	Dolostone (dolomite)	Shale; arkose; chert	Black River Group
Carbonate	Melange	—	Cambrian through Middle Ordovician carbonate rock
Limestone	Siltstone	—	Valcour, Crown Point, and Day Point Limestones
Limestone	Shale	—	Trenton Group
Limestone	—	—	Trenton and Black River Groups, undivided
Limestone	Dolostone (dolomite)	—	Trenton and Black River Groups, undivided
Beekmantown			
Dolostone (dolomite)	Limestone	Sandstone; quartzite	Beekmantown Group
Sandstone	—	—	Potsdam Sandstone
Dolostone (dolomite)	Sandstone	Shale	Theresa (Galway) Formation
Dolostone (dolomite)	Shale	—	Briarcliff Dolostone and Pine Plains Formation
Dolostone (dolomite)	Limestone	Chert; siltstone	Beekmantown Group
Dolostone (dolomite)	Sandstone	—	Theresa Formation
Limestone	Dolostone (dolomite)	Chert	Copake and Halcyon Lake Formations, Rochdale Limestone
Marble			
Marble	Schist	Granulite; quartzite	Inwood Marble
Schist	Marble	Calc-silicate rock	Manhattan Formation (“A” Member)
Marble	—	—	Stockbridge Formation
Marble	Calc-silicate rock	Amphibolite; granulite; gneiss; quartzite; schist	Undifferentiated dolomitic and calcitic marbles interlayered with significant amounts of calc-silicate rock
Marble	Calc-silicate rock	Amphibolite	Calcitic and dolomitic marble
Gneiss	Marble	Calc-silicate rock	Rusty and gray biotite-quartz-feldspar gneiss
Wappinger			
Shale	Conglomerate	Limestone	Germantown Formation
Dolostone (dolomite)	Shale	—	Stissing Formation
Limestone	Dolostone (dolomite)	Sandstone; shale; conglomerate	Undifferentiated Lower Devonian and Silurian rocks
Limestone	Dolostone (dolomite)	Shale; chert	Wappinger Group

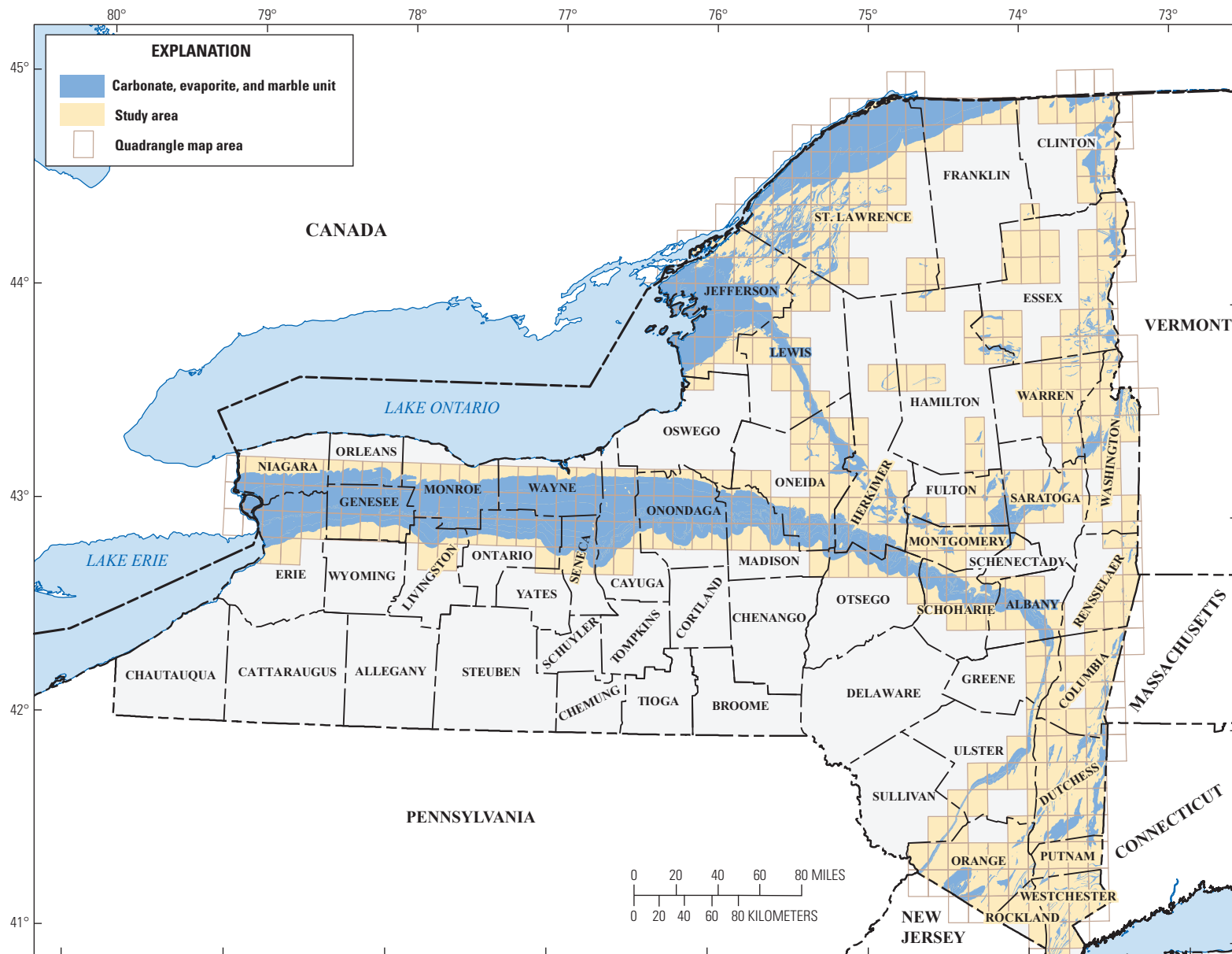


Figure 23. Study area boundary and selected U.S. Geological Survey 7.5-minute quadrangle maps adopted for geographic information system (GIS) analyses of karst aquifers in New York. Selected bedrock geologic units are shown.

Table 3. Sources for data acquired to conduct geographic information system analyses for karst aquifers in New York.

[lidar, light detection and ranging; DEM, digital elevation model; gSSURGO, gridded Soil Survey Geographic database; NLCD 2011, 2011 National Land Cover Database]

Data	Data type	Source
Closed depression identification data		
Digital contours	Vector	Tyler and Greenlee (2012)
Digital raster graphic images	Raster	1:24,000-scale, 7.5-minute topographic maps (U.S. Geological Survey, 2020)
Lidar-derived bare-earth DEMs	Raster	New York State Office of Information Technology Services (2017)
Ancillary data		
Bedrock geology	Vector	Horton and others (2017)
Soils	Raster	gSSURGO for New York (Natural Resources Conservation Service, 2014)
Land cover	Raster	NLCD 2011 (U.S. Geological Survey, 2015)

The digital contour database of closed depressions contains features derived from data associated with Tyler and Greenlee (2012). The source data are a statewide contour dataset that was generated from the National Elevation Dataset (U.S. Geological Survey, 2017a) and the National Hydrography Dataset (U.S. Geological Survey, 2017b) in a fully automated process. The process created digitally produced contours that match, as closely as possible, the cartographic contours that appear on the 1:24,000-scale, 7.5-minute USGS topographic maps. An exact match was not possible because the digitally produced contours are based on newer, more accurate horizontal and vertical datums than those used to create the contours appearing on the topographic maps

(Tyler and Greenlee, 2012). Furthermore, deletion of very small polygonal contours was a processing step used in the development of the digital contours (Tyler and Greenlee, 2012). Within the study area, the discrepancy between digitally produced closed depression contours and closed depression contours appearing on 7.5-minute topographic maps is substantial. The digital contour lines representing closed depressions were converted to polygons and added to the inventory (fig. 24).

The features included in the digital raster graphic database of closed depressions were compiled to address the discrepancy between digitally produced closed depression contours and closed depression contours appearing on

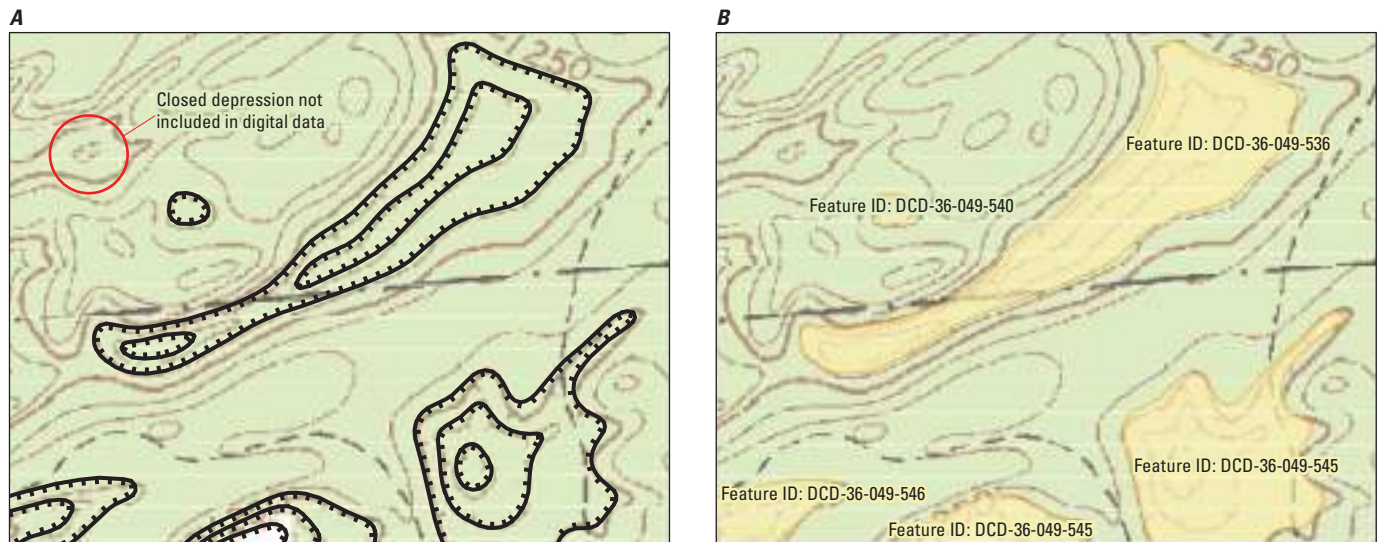


Figure 24. Closed depressions converted from line to polygon features. *A*, Closed depression contours appearing on the topographic map and in the digital contour dataset (black hachured lines; Tyler and Greenlee, 2012). An example of a closed depression that appears on the topographic map but is not included in the digital contour dataset (closed depression circled in red); *B*, closed depression contour lines from the digital contour dataset converted to polygons and assigned feature identification numbers for the digital contour database (Reddy and others, 2020).

7.5-minute topographic maps. The features in the digital raster graphic database of closed depressions represent the locations of closed depressions that appear on the 7.5-minute topographic maps but were not represented in the digital contour dataset because of the previously described processing limitations. These closed depressions were digitized as feature centroids from an assemblage of approximately 650 digital raster graphic (DRG) images of scanned USGS 1:24,000-scale topographic maps. A georeferenced DRG was added as a background layer in a GIS. A dataset of disconnected stream reaches imported from the National Hydrography Dataset (U.S. Geological Survey, 2017b) for New York was used to assist with identification of closed depression features appearing on the DRG images (fig. 25).

The lidar database of closed depressions contains polygon features generated from analysis of 1- and 2-meter (m; 3.28- and 6.56-ft) horizontal resolution lidar-derived bare-earth digital elevation models (DEMs; New York State Office of Information Technology Services, 2017). The DEMs were made from multiple collection projects conducted between 2005 and 2017. The vertical accuracy of the lidar projects ranged from a 4.0- to 18.5-centimeter (cm; 1.6- to 7.3-in.) root mean square error, and the horizontal accuracy of each project had less than 2-m root mean square error. At the time of analysis [2017], lidar data existed for approximately 85 percent of the study area (fig. 26). The DEMs were processed to identify closed depressions not represented in the digital contour database or the digital raster graphic database. The processes used followed the methods described by Doctor and Young (2013) using the ArcHydro Tools data modeling toolbox and by Wall and others (2015) using the Esri toolbox Hydrocutter.

A lidar-derived bare-earth DEM was created for each 7.5-minute quadrangle map within the extent of the lidar coverage. Each DEM quadrangle was reconditioned using ArcGIS version 10.5.0 (Esri, 2016) to produce a polygon dataset of possible closed depressions. Reconditioning involved the removal of artificial dams along manmade features, such as streets and railroads, where surface water flows through drainage structures that are hidden to the DEM. Mapped inventories of culverts and bridges are not complete as these features are numerous, often undocumented, or on private land; therefore, it is necessary to develop a method to restore connectivity of flow paths. The hidden flow paths need to be added to the DEM, artificially lowering the DEM at locations of drainage structures, thereby extending flow paths through artificial dams and restoring connectivity of surface-water flow. To do so, methods developed by Doctor and Young (2013) and Wall and others (2015) were incorporated and combined.

Doctor and Young (2013) recondition DEMs by digitally creating flow paths through road and railroad embankments. The reconditioned DEM is run through the ArcGIS Fill tool (part of the Spatial Analyst tools) to identify cells that are lower than all its adjacent neighbors and raise the value of that cell to the lowest value of an adjacent cell. A depth raster is then generated by subtracting the reconditioned DEM from the filled DEM. Cells within the depth raster that satisfy a minimum depth threshold are extracted and converted to polygon features having area characteristics. A final closed depression dataset is then generated that satisfies both minimum depth and area thresholds.

Wall and others (2015) developed the Hydrocutter toolbox to aide in connecting streams through roads and railroad embankments. Two separate tools, Hydro and Cutter, are

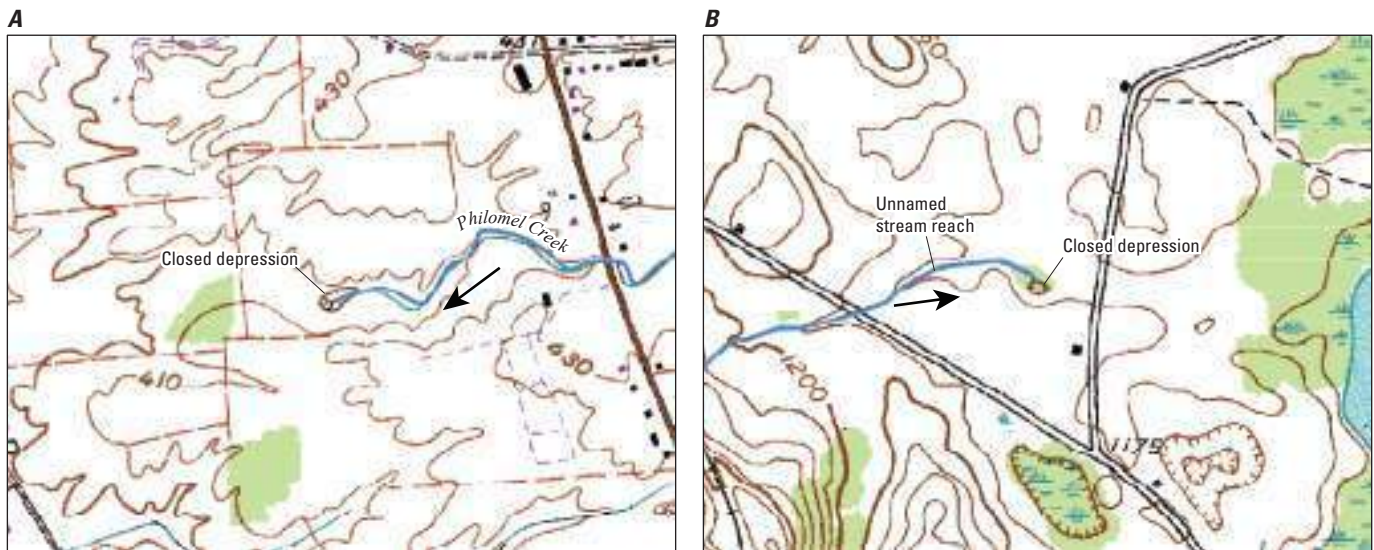


Figure 25. Closed depressions not represented in the digital contour data because of processing limitations that were added to the digital raster graphic database (Reddy and others, 2020) from analysis of digital raster graphic (DRG) images and disconnected stream reaches from the National Hydrography Dataset (NHD; U.S. Geological Survey, 2017b). A, Closed depression near Watertown, Jefferson County; B, Closed depression near Pine Woods, Madison County.

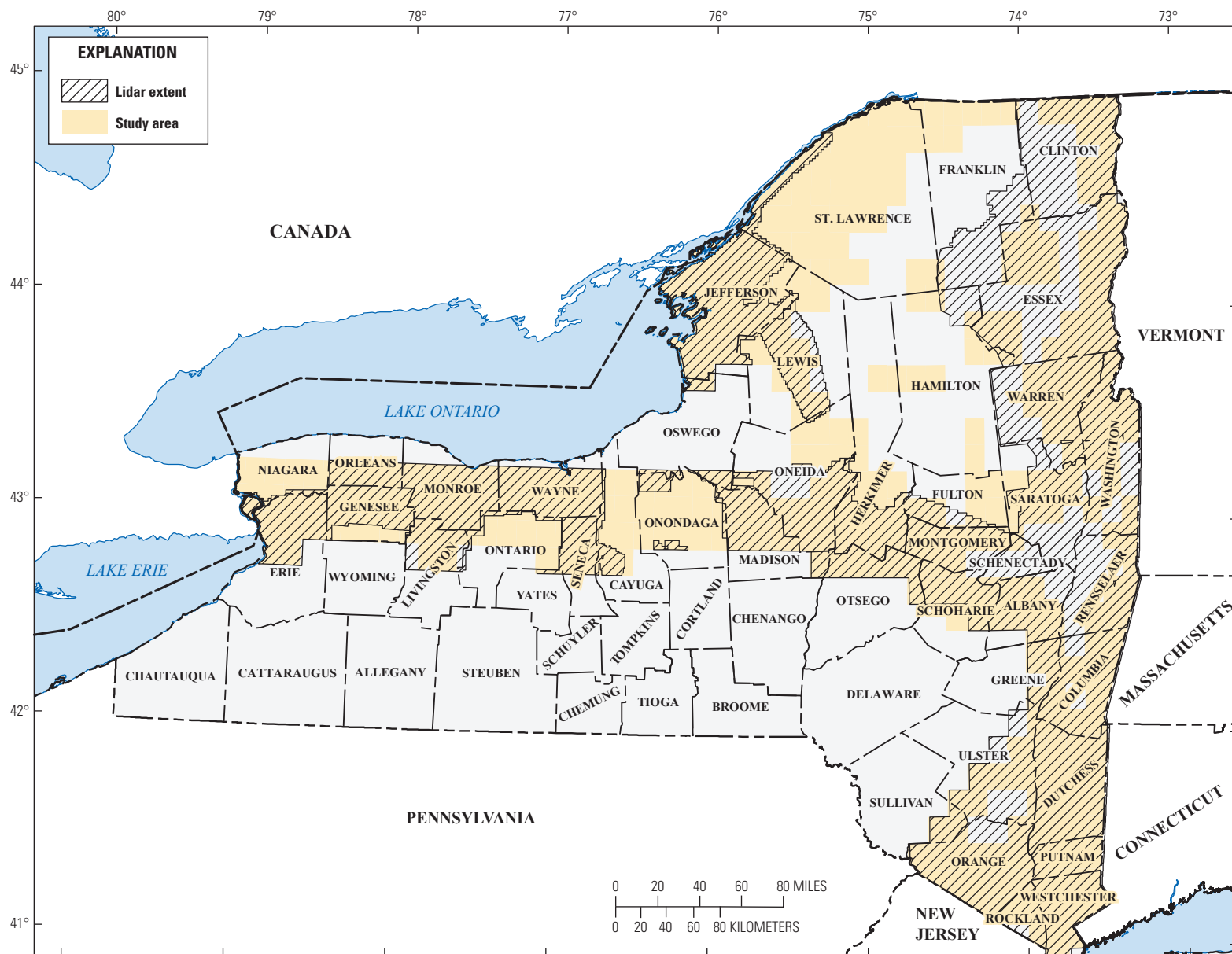


Figure 26. Extent of light detection and ranging (lidar)-derived digital elevation models within the karst aquifer study area in New York.

included with the toolbox, which can be used iteratively to increase the precision of closed depression detections. Hydro allows flow measures to be manipulated and expose flow paths that do not exhibit a surficial, geomorphic expression such as a stream channel. Because of the scope of this study, Hydro was not used because flow paths from the National Hydrography Dataset (U.S. Geological Survey, 2017b) were created with adequate flow conditions to produce closed depressions of the desired scale. Cutter intersects and buffers roads and railroads with flow paths to generate a reconditioned raster DEM, which is then filled. A depth raster is generated by subtracting the reconditioned DEM from the filled DEM, and a final closed depression dataset is produced that satisfies both minimum depth and area thresholds. Results from the two methods were combined into one dataset.

The number of possible depressions identified per DEM quadrangle is determined by the minimum depth and area thresholds applied during data processing. Thresholds used for this statewide study were set at 1-m (3-ft) depth and 4,047-square meter (m^2 ; 1-acre) area; these threshold values are greater than what is typically used for lidar-based sinkhole identification studies. For the purposes of this study, the use of lidar was primarily intended to identify closed depressions that were not represented in the digital raster graphic database, in the same manner that the DRG images were used to identify closed depressions not represented in the digital contour database. For that reason, the threshold values were based on random sampling of DRG-derived closed depressions within the study area and represent the approximate mean geometric characteristics of the closed depressions sampled. Figures 27 and 28 provide examples of lidar-derived anthropogenic and

naturally formed closed depressions inventoried using these thresholds. For ongoing and planned large-scale, county-based assessments in New York, the thresholds will be reduced to 10- and 30-cm (3.9- and 11.8-in.) depth and 100- m^2 (0.025-acre) area.

Aerial imagery from Pictometry International (Pictometry International Corp., 2015) and Google Earth (Google, 2015) was used to photographically verify each lidar-derived closed depression. This process provided the opportunity to delete any remaining artificial depressions and to include a brief description of each feature. The lidar-derived features were grouped into a six-category classification scheme (table 4).

Ancillary Data

Multiple thematic datasets can be used to assess the probability that a closed depression contributes to focused recharge. For this study, the thematic data selected are bedrock type, soil type, soil infiltration rate, and land cover. For each closed depression that was inventoried, a series of overlay analyses were used to determine the predominant bedrock type, soil type, and infiltration rate within a 250-m (820-ft) buffer around the feature. Land cover percentages within a 250-m (820-ft) buffer around each feature were also computed. The results from the overlay analyses for each closed depression are summarized in the “Results” section of this report; results are recorded as feature attributes to the data included in Reddy and others (2020).

The bedrock-type attribute was derived from the State Geologic Map Compilation Geodatabase of the Conterminous United States (Horton and others, 2017). Bedrock geologic

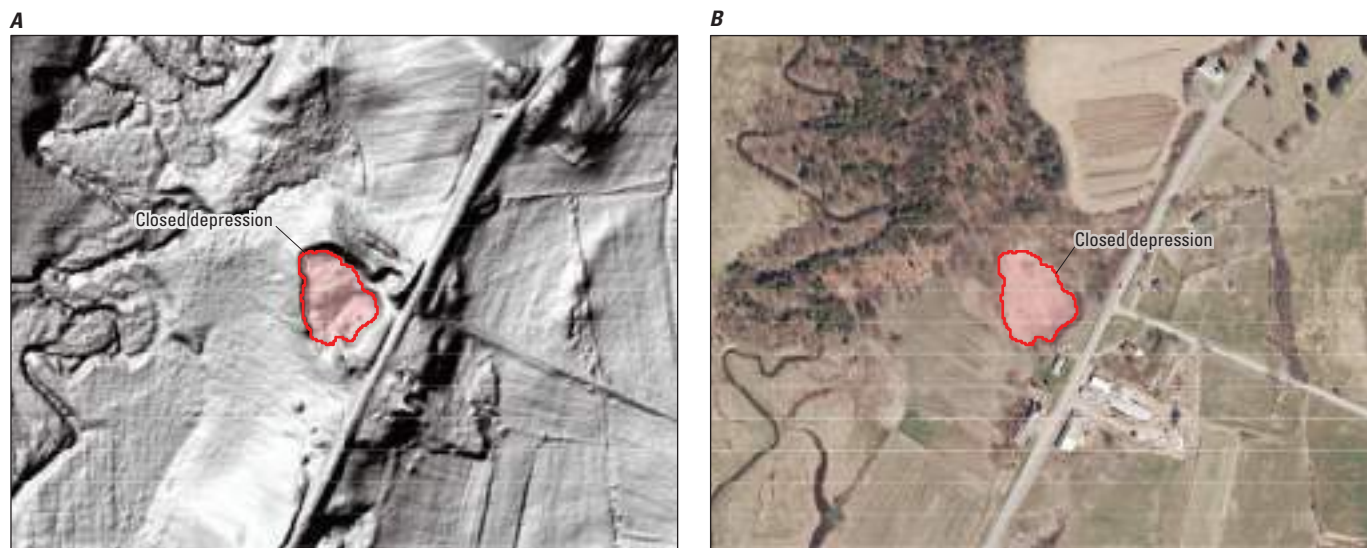


Figure 27. A closed depression near Argyle, Washington County, New York, identified using light detection and ranging (lidar)-derived digital elevation models (DEMs). This feature (inactive gravel pit) was not represented in other data sources; the feature as it appears on *A*, lidar-based hill-shade relief imagery and *B*, Google Earth imagery. The feature is divided between agricultural and developed land cover classes, underlain by noncarbonate bedrock (Canajoharie Shale) and glacial outwash soil with a high infiltration rate.

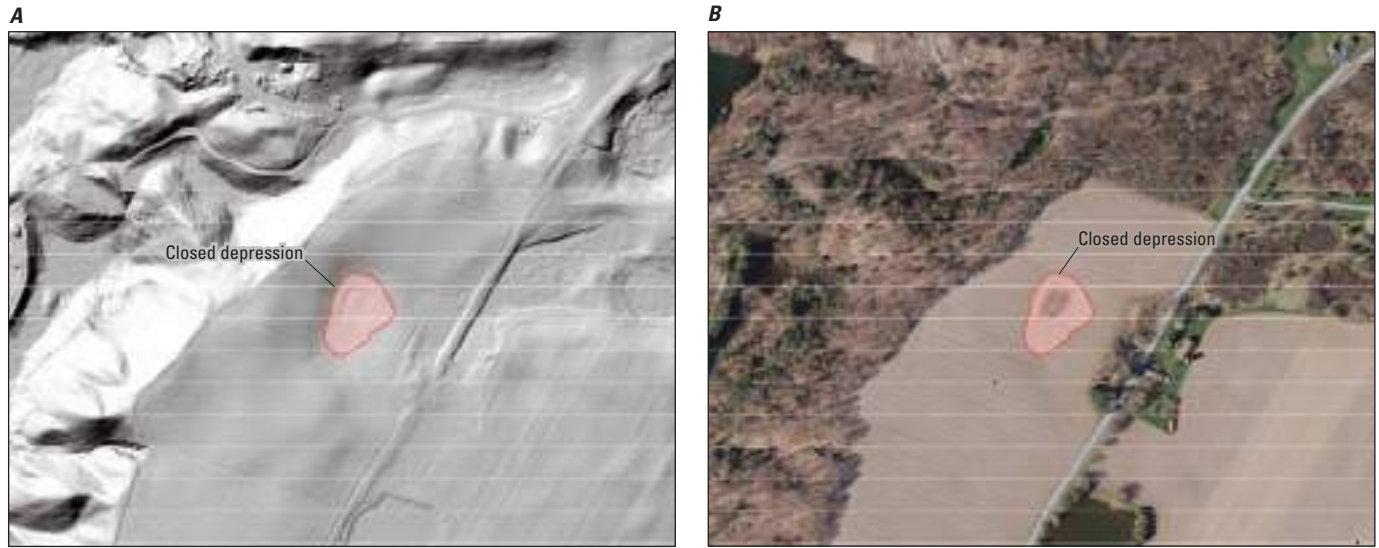


Figure 28. A closed depression near Ludlow Corners, Oneida County, New York, identified using light detection and ranging (lidar)-derived digital elevation models (DEMs); this feature was not represented in other data sources. The probable sinkhole as it appears on *A*, lidar-based hill-shade relief imagery and *B*, Google Earth imagery. The feature is located in an agricultural field, underlain by carbonate bedrock and glacial outwash soil with a high infiltration rate.

units were selected based on their established association with karst development; these units were then grouped into eight categories (table 2). A 2-mi-wide area of noncarbonate bedrock extending from Erie County to Greene County was included in the bedrock-type overlay analyses. In this area, which is south of the Onondaga and Helderberg Groups limestone, carbonate bedrock is overlain by shale. This represents an area of potential allogenic recharge. Surface water in this area flows from shale onto the adjacent carbonate bedrock and contributes to the potential for focused recharge (fig. 29).

Soil type was derived from the gridded Soil Survey Geographic database data for New York (Natural Resources Conservation Service, 2014). Based on research at Cornell University (Czymmek and others, 2004) and the U.S. Department of Agriculture (Stephen Page, Natural Resources Conservation Service, written commun., May 2017), 182 soil types in New York were identified as having characteristics that potentially present an increased risk for groundwater contamination. For this study, the 182 soil types were grouped into five classes (table 5). Three of the five soil classes

Table 4. Classification scheme for light detection and ranging (lidar)-derived closed depressions in New York.

[FeatCode, feature code]

Feat-Code	Origin	Description
1	Natural	Definite closed depression, natural in origin, for example, a closed depression in agricultural land exhibiting sinkhole signature.
2	Anthropogenic	Definite closed depression, anthropogenic in origin, for example, a small gravel pit or a surface water detention basin.
3	Natural and anthropogenic	Probable closed depression, includes natural and anthropogenic in origin, for example, shallow depression in agricultural land or probable detention basin at industrial park.
4	Natural and anthropogenic	Possible closed depression, includes natural and anthropogenic in origin, same as FeatCode 3 but with less certainty.
5	Anthropogenic	Impeded areas where surface water drainage is impeded, resulting in standing liquid, not a true closed depression, anthropogenic in origin, for example, surface water that collects along a roadbed near a culvert.
6	Natural and anthropogenic	Indeterminate, lidar-derived features that could not be verified through photographic analysis, for example, closed depressions in heavily wooded areas.

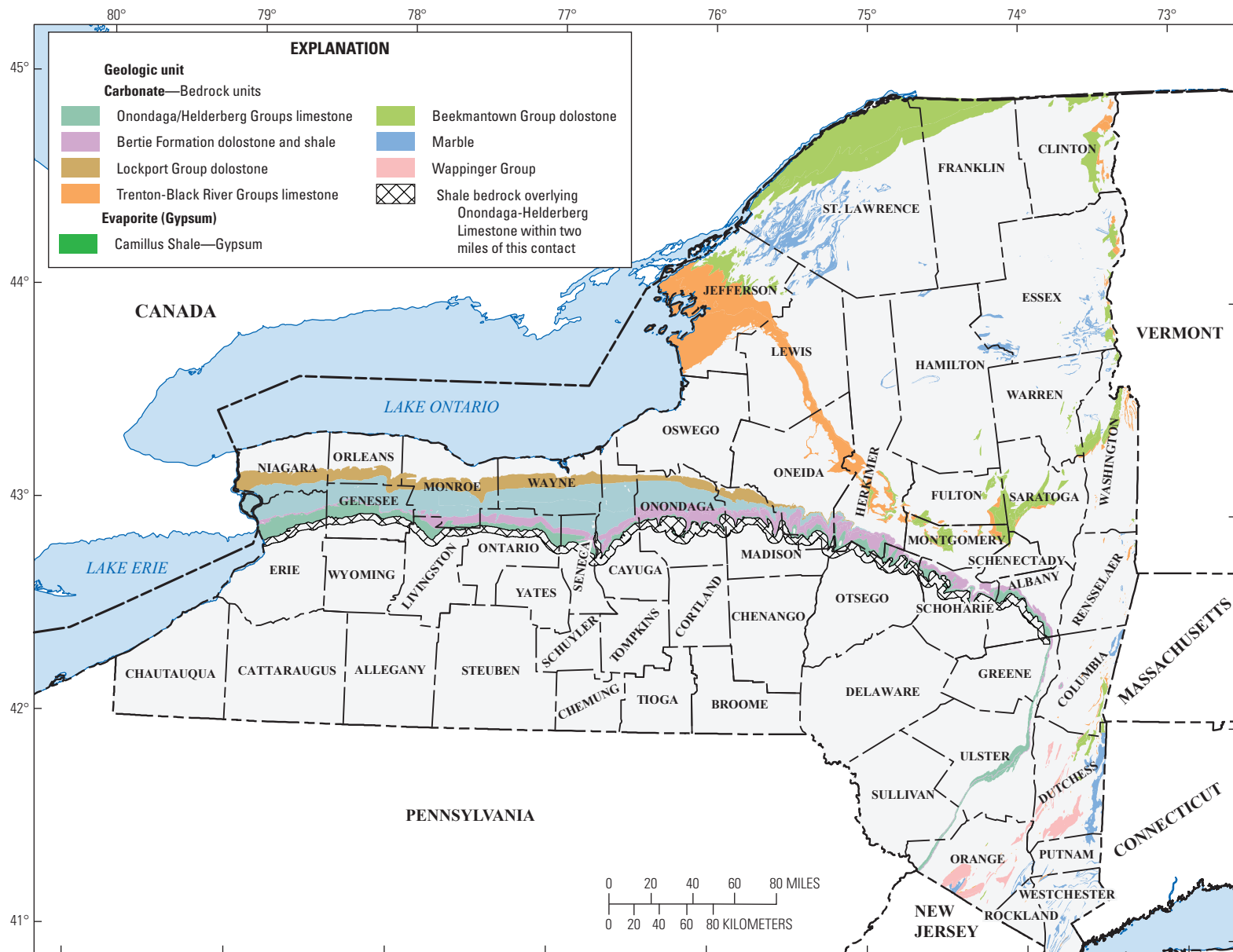


Figure 29. Shale bedrock in New York that may contribute allogenic recharge to the adjacent carbonate-rock aquifer.

Table 5. Classification scheme for soils in New York.

[Soil classifications are from the Soil Survey Geographic database (SSURGO; Natural Resources Conservation Service, 2019). in., inch]

SSURGO map unit name
Soil class 1, depth less than 20 in. over carbonate bedrock
Benson
Farmington
Galoo
Gouverneur
Hannawa
Joliet
Kings Falls
Rockland, limestone
Rubbleland (Genesee County)
Ruse
Summerville
Soil class 2, depth less than 40 in. over carbonate bedrock
Aurora
Brockport
Camillus
Chaumont
Chippeny
Galway
Groton variant (Jefferson Co.)
Guff
Guffin
Lairdsville
Lockport
Madalin variant (Montgomery and Schenectady Co.)
Matoon
Neckrock
Nehasne
Newstead
Ogdensburg
Palatine
Riga
Sun variant (Monroe Co.)
Varick
Wassaic
Wilpoint
Soil class 3, depth range 20 to 60 in. over carbonate bedrock
Allis
Angola
Appleton, limestone substratum (Monroe, Orleans)
Cayuga, limestone substratum (Niagara)

Table 5. Classification scheme for soils in New York.—Continued

[Soil classifications are from the Soil Survey Geographic database (SSURGO; Natural Resources Conservation Service, 2019). in., inch]

SSURGO map unit name
Cazenovia, bedrock substratum (Monroe, Niagara, Orleans, Wayne)
Collamer, bedrock substratum (Jefferson, Seneca)
Gardenisle
Hilton, bedrock substratum (Livingston, Niagara, Orleans, Wayne)
Honeoye, limestone substratum (Monroe)
Kendaia, bedrock substratum (Orleans)
Lakemont, shale substratum (Orleans, Wayne)
Lima, limestone substratum (Monroe)
Lyons, rock substratum (Orleans)
Mohawk, shale substratum (Herkimer)
Niagara, bedrock substratum (Jefferson)
Nuhi
Ontario, bedrock substratum/moderately shallow (Cayuga, Niagara, Orleans, Seneca)
Ontario, stony (Genesee: OsB, OsC)
Ovid, bedrock substratum (Monroe, Niagara, Orleans)
Redwater
Stockbridge (Ulster)
Uwihreh
Yunenyeti
Soil class 4, well-drained glacial outwash bedrock
Adams
Agawam
Allagash
Allard
Allard variant
Altmar
Alton
Atsion
Au Gres
Barbour
Berryland
Bonaparte
Carver
Castile
Champlain
Chenango
Colonie
Colosse
Colton
Constable
Copake

Table 5. Classification scheme for soils in New York.—Continued

[Soil classifications are from the Soil Survey Geographic database (SSURGO; Natural Resources Conservation Service, 2019). in., inch]

SSURGO map unit name
Covert
Croghan
Deerfield
Deford
Deinache
Deposit
Duane
Duneland
Duxbury
Elnora
Enfield
Fahey
Fluvaquents
Fredon
Gougeville
Granby
Grattan
Groton
Halsey
Haven
Hempstead
Hinckley
Homer
Hoosic
Howard
Jebavy
Junius
Kars
Knickerbocker
Linlithgo
Middlebury
Mooers
Naumburg
Ninigret
Oakville
Occum
Occum variant
Olean
Ondawa
Otisville
Palmyra
Pawling

Table 5. Classification scheme for soils in New York.—Continued

[Soil classifications are from the Soil Survey Geographic database (SSURGO; Natural Resources Conservation Service, 2019). in., inch]

SSURGO map unit name
Phelps
Philo
Pipestone
Pits, gravel and sand
Plainfield
Plymouth
Podunk
Pompton
Pootatuck
Raypol
Rippowam
Riverhead
Rumney
Scarboro
Sciota
Searsport
Stafford
Sudbury
Suncook
Trestle
Trout River
Tunkhannock
Udifluvents
Udipsamments
Waddington
Wainola
Wallace
Walpole
Wampsville
Wappinger
Wareham
Windsor
Wyalusing
Soil class 5, depth less than 20 in. over noncarbonate bedrock
Abram
Arnot
Canaan
Couchsachraga
Glover
Halcott
Hawksnest
Hogback

Table 5. Classification scheme for soils in New York.—Continued

[Soil classifications are from the Soil Survey Geographic database (SSURGO; Natural Resources Conservation Service, 2019). in., inch]

SSURGO map unit name
Hollis
Holyoke
Insula
Irona
Kearsarge
Knob Lock
Lordstown variant (Cortland Co.)
Lyman
Nassau
Quetico
Ricker
Rock Land
Rock Outcrop
Skylight
Taconic
Topknot
Tor
Torull
Tuller
Woodstock
Wotalf

represent thin soils over carbonate bedrock, one represents thin soils over noncarbonate bedrock, and the fifth represents soils over well-drained glacial materials.

Infiltration rate is an important soil characteristic to consider when assessing the probability that a closed depression contributes to focused recharge. A soil infiltration rate dataset was derived from the gridded Soil Survey Geographic database for New York (Natural Resources Conservation Service, 2014). The dataset identifies areas in New York with soils that have high and moderate infiltration rates (table 6).

The 2011 National Land Cover Database (NLCD; Homer and others, 2015) was used to compute land cover percentages within a 250-m (820-ft) buffer around each closed depression. The NLCD 2011 data for New York is a 15-class land cover classification system. For this study, the NLCD 2011 data were reclassified to a five-class system (table 7). The land cover percentages were computed in ArcGIS using the Feature Statistics-To-Table tool available in the National Water-Quality Assessment Area-Characterization toolbox (Price and others, 2010)

Table 6. Classification scheme for soil infiltration rate in New York.

[gSSURGO, gridded Soil Survey Geographic database (Natural Resources Conservation Service, 2014); HydroGrp, hydrological group; >, greater than]

HydroGrp	gSSURGO soil group	Description
1	Group A	> 1.42 inches per hour
2	Group B	0.57 to 1.42 inches per hour

Table 7. Land cover classifications for New York.

[Classifications are from the National Land Cover Database for 2011 (Homer and others, 2015)]

Class code	Classification
	Open water
11	Open water
	Developed
21	Developed, open space
22	Developed, low intensity
23	Developed, medium intensity
24	Developed, high intensity
31	Barren land
	Forested
41	Deciduous forest
42	Evergreen forest
43	Mixed forest
52	Shrub/scrub
	Agriculture
71	Grassland/herbaceous
81	Pasture/hay
82	Cultivated crops
	Wetland
90	Woody wetlands
95	Emergent herbaceous wetlands

Results

A total of 5,023 closed depressions were inventoried for this study (table 8). The digital contour database contains 2,032 closed depressions (fig. 30), the digital raster graphic database contains 2,477 closed depressions (fig. 31), and the lidar database contains 514 large closed depressions (fig. 32). Several areas of clustered closed depressions are evident when the findings from the three databases are combined (fig. 33). Some of the clusters occur in areas underlain by noncarbonate bedrock.

Table 8. Closed depressions in New York, by data source.

[lidar, light detection and ranging]

Data source	Data type	Number of closed depressions
Digital contour database	Polygon	2,032
Digital raster graphic database	Point	2,477
Lidar database	Polygon	514

In terms of total number of closed depressions per county, Dutchess, Jefferson, and St. Lawrence rated highest with more than 300 in each county (fig. 34). In terms of concentration of closed depressions per unit study area for

each county, Monroe, Ontario, and Oswego are rated highest with greater than 0.2 depression per square kilometer (fig. 35). Comparing the locations of the closed depressions with the selected bedrock geologic units indicated that 51 percent of the features inventoried lie outside the extent of the selected units (fig. 36); 10 percent of the closed depressions lie within the Beekmantown Group, and only 1 percent, within the Wappinger Group. The number of depressions within the remaining limestone, dolostone, and marble units ranges from 4 to 9 percent.

From the overlay analysis between closed depressions and soil class (fig. 37) it was determined that most of the closed depressions lie outside the extent of the five soil classes; 35 percent of the depressions lie within well-drained soils on sand-and-gravel deposits, which might include alluvium, alluvial fan, glaciofluvial, and glaciodeltaic deposits. The number of closed depressions within the remaining four soil classes ranges from 1 to 8 percent.

Twenty-three percent of the closed depressions are on soils with high infiltration rates (fig. 38), and 6 percent are on soils with moderate infiltration rates. Most of the closed depressions lie outside the extent of the high- to moderate-infiltration-rate soils.

Overlaying closed depressions and land cover indicated that half of the closed depressions inventoried lie within the forested land cover class (fig. 39), and 28 percent are in agricultural areas. The wetland land cover class accounts for 12 percent of the depressions; 9 percent are in areas classified as developed, and 1 percent of the closed depressions lie within the open water land cover class (these are typically small ponds or marshes).

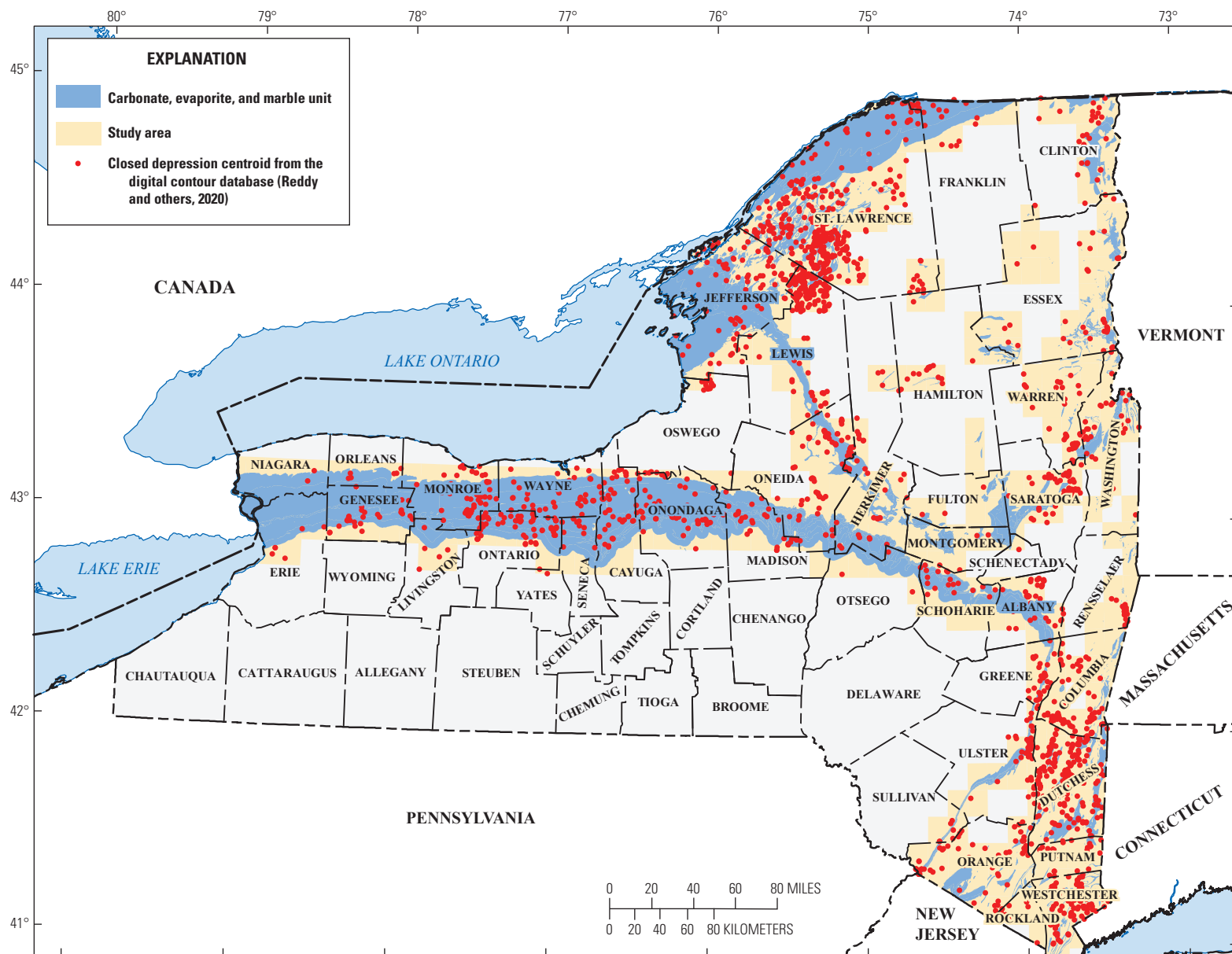


Figure 30. Distribution of closed depressions in New York in the digital contour database (Reddy and others, 2020).

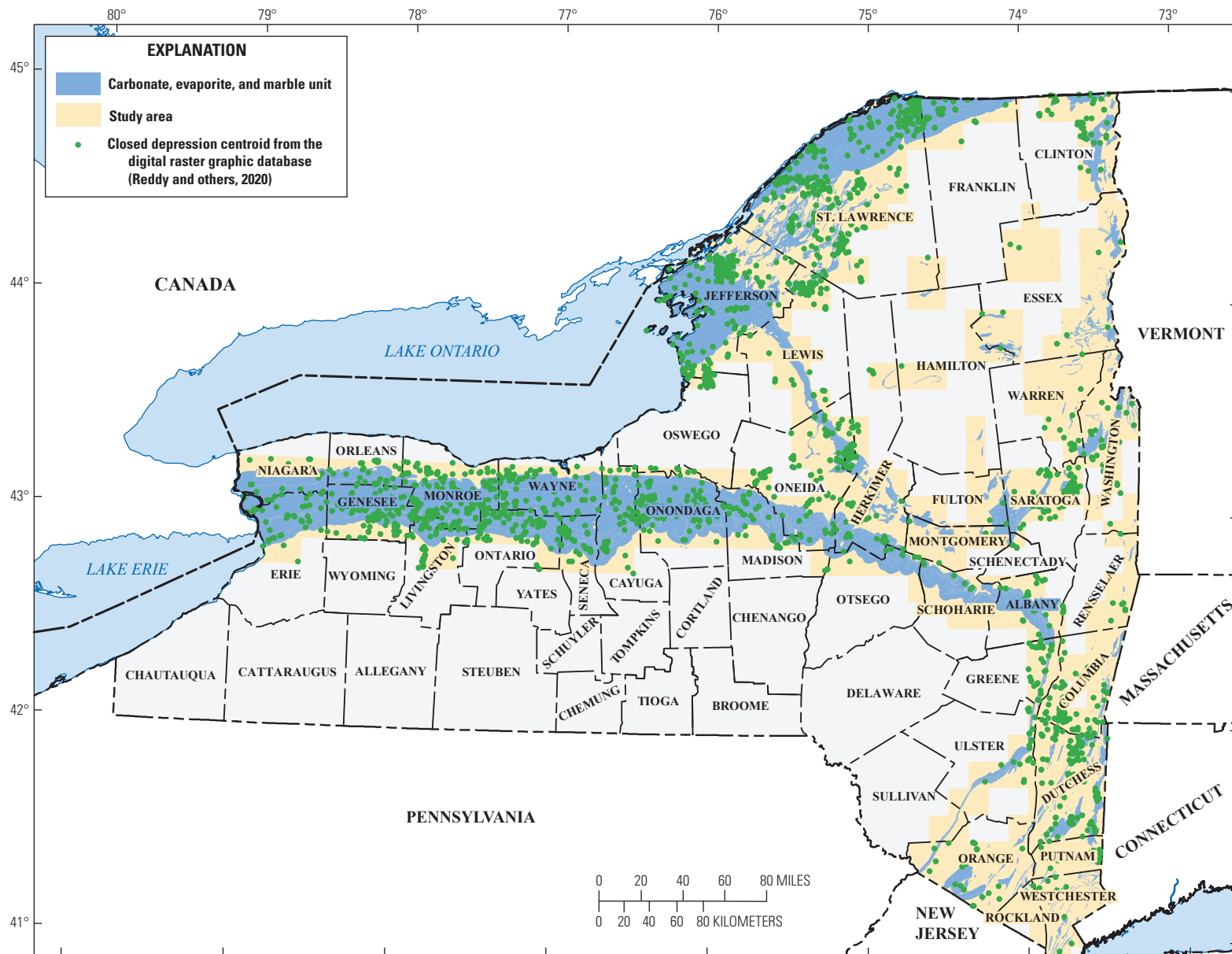


Figure 31. Distribution of closed depressions in New York in the digital raster graphic database (Reddy and others, 2020).

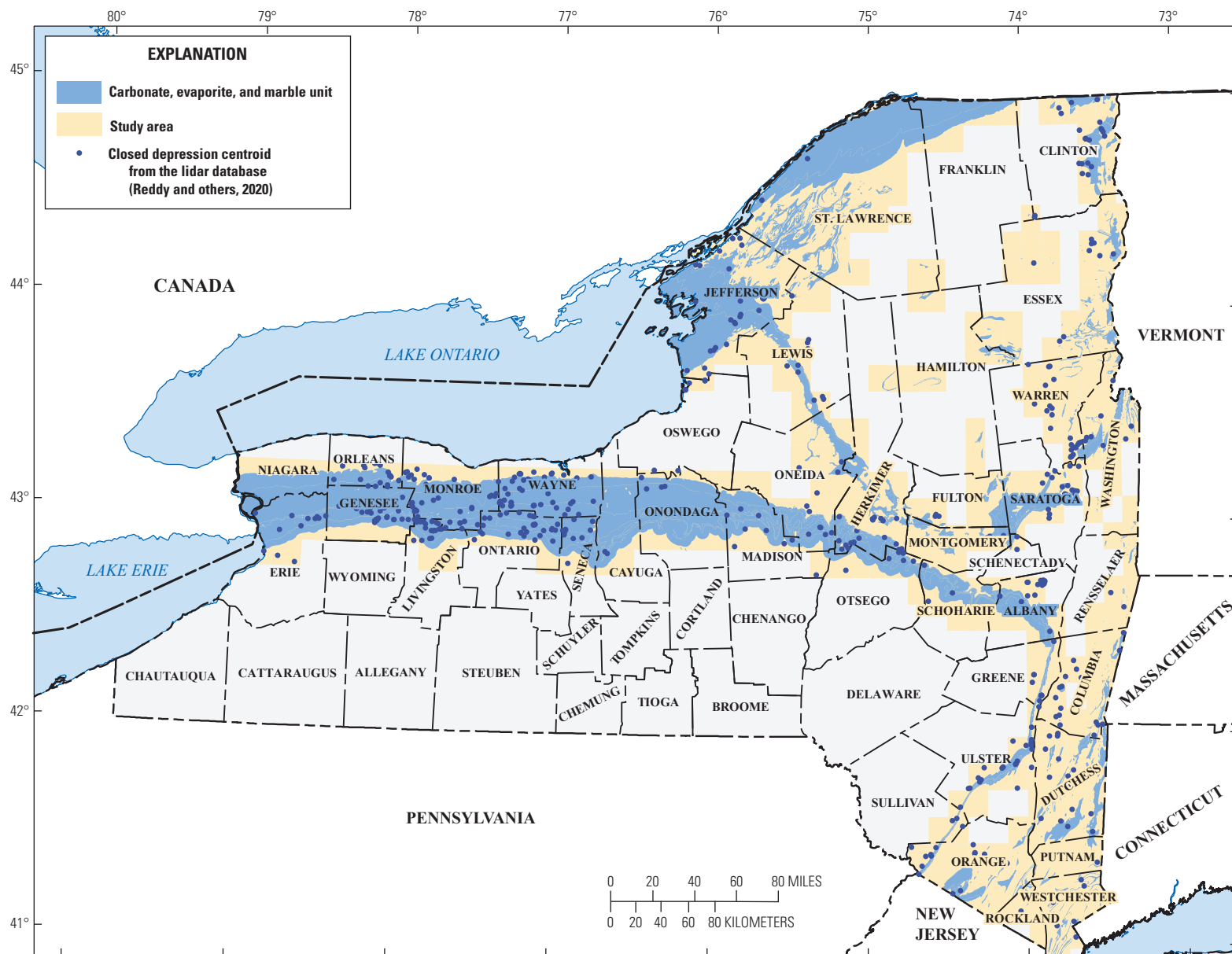


Figure 32. Distribution of closed depressions in New York in the light detection and ranging (lidar) database (Reddy and others, 2020).

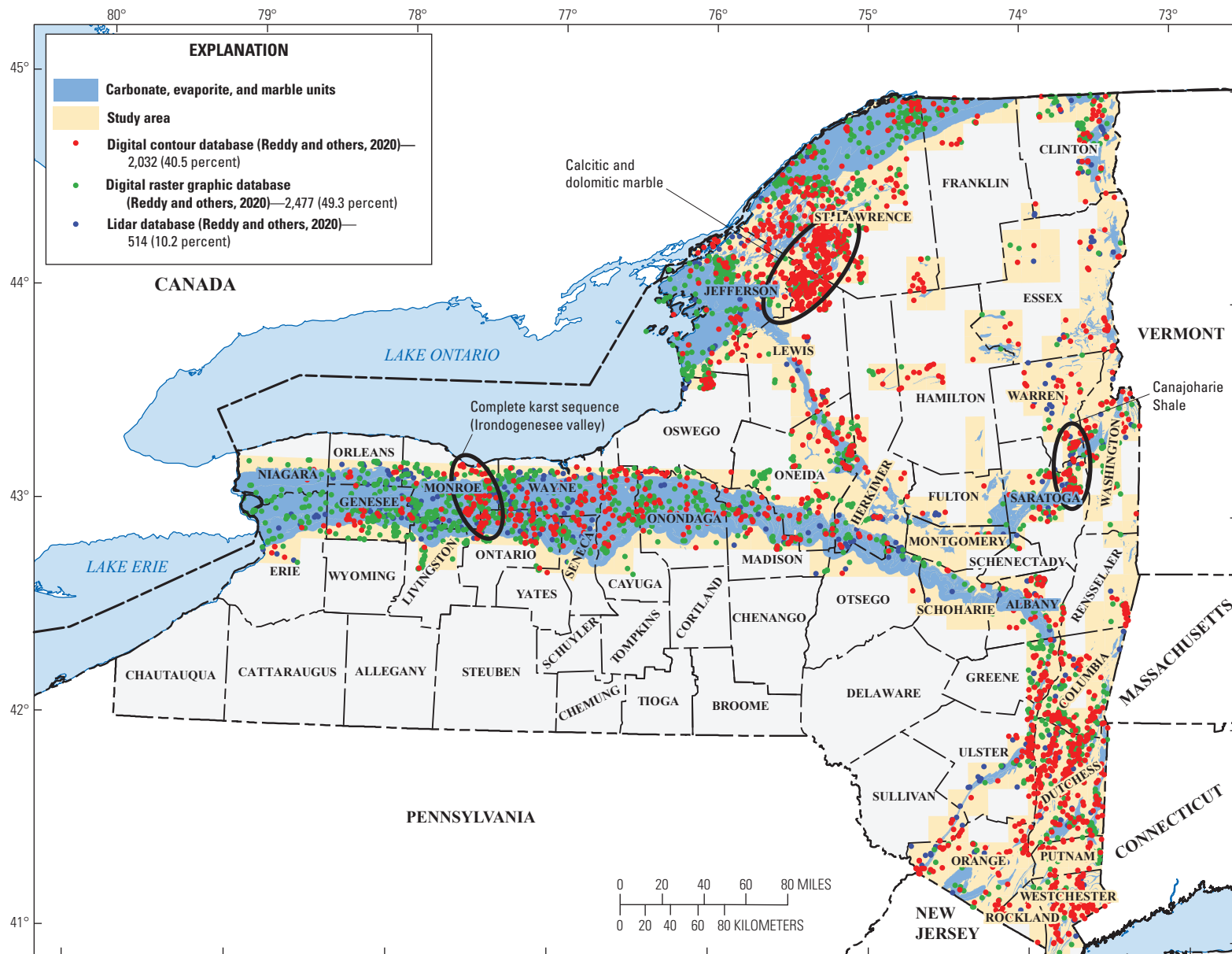


Figure 33. Distribution of all closed depressions in New York, from the digital contour, digital raster graphic, and light detection and ranging (lidar) databases (Reddy and others, 2020).

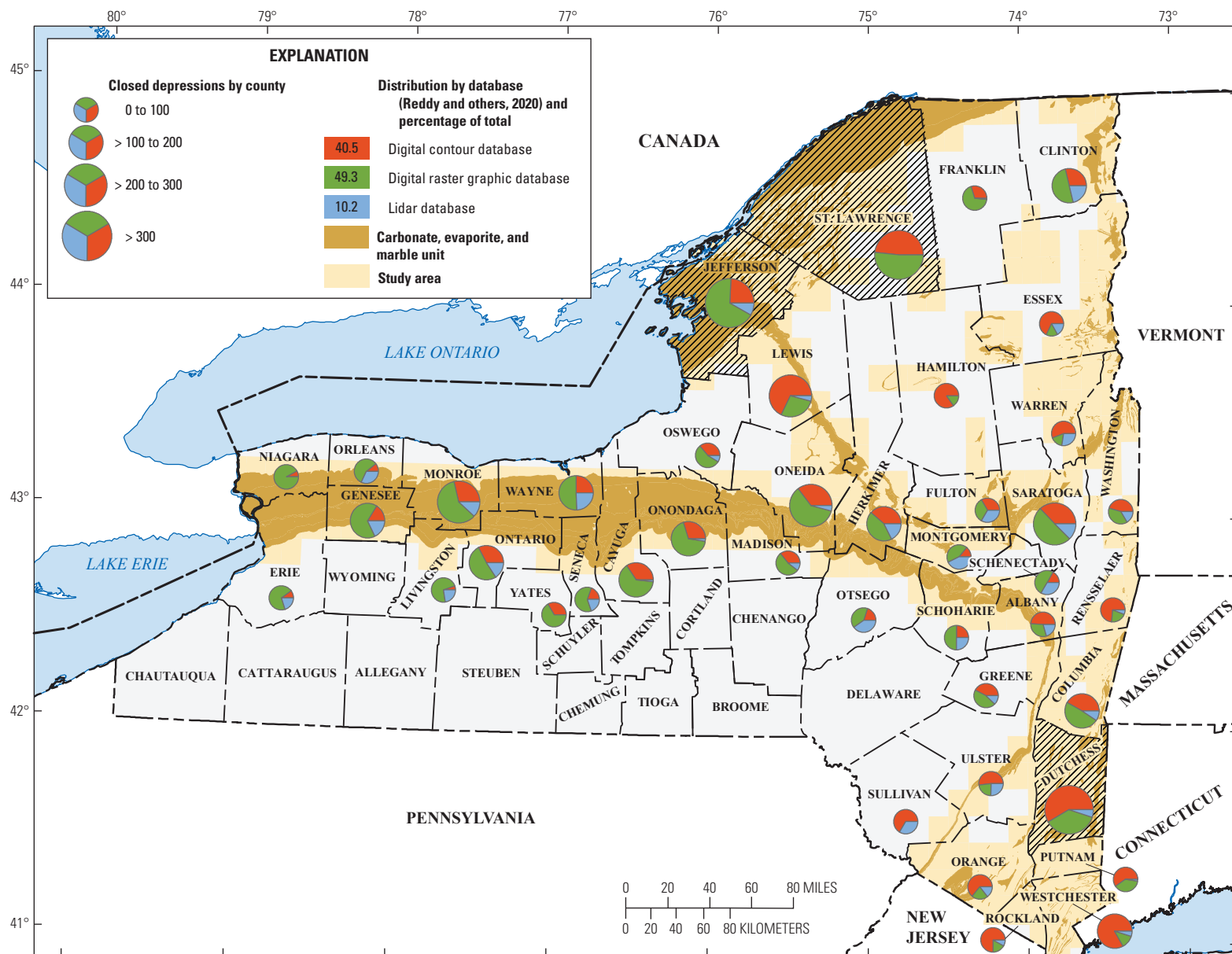


Figure 34. Concentration of closed depressions in New York, by source and quantity for each county. Dutchess, Jefferson, and St. Lawrence Counties (hachured) rate highest with more than 300 depressions in each county. >, greater than.

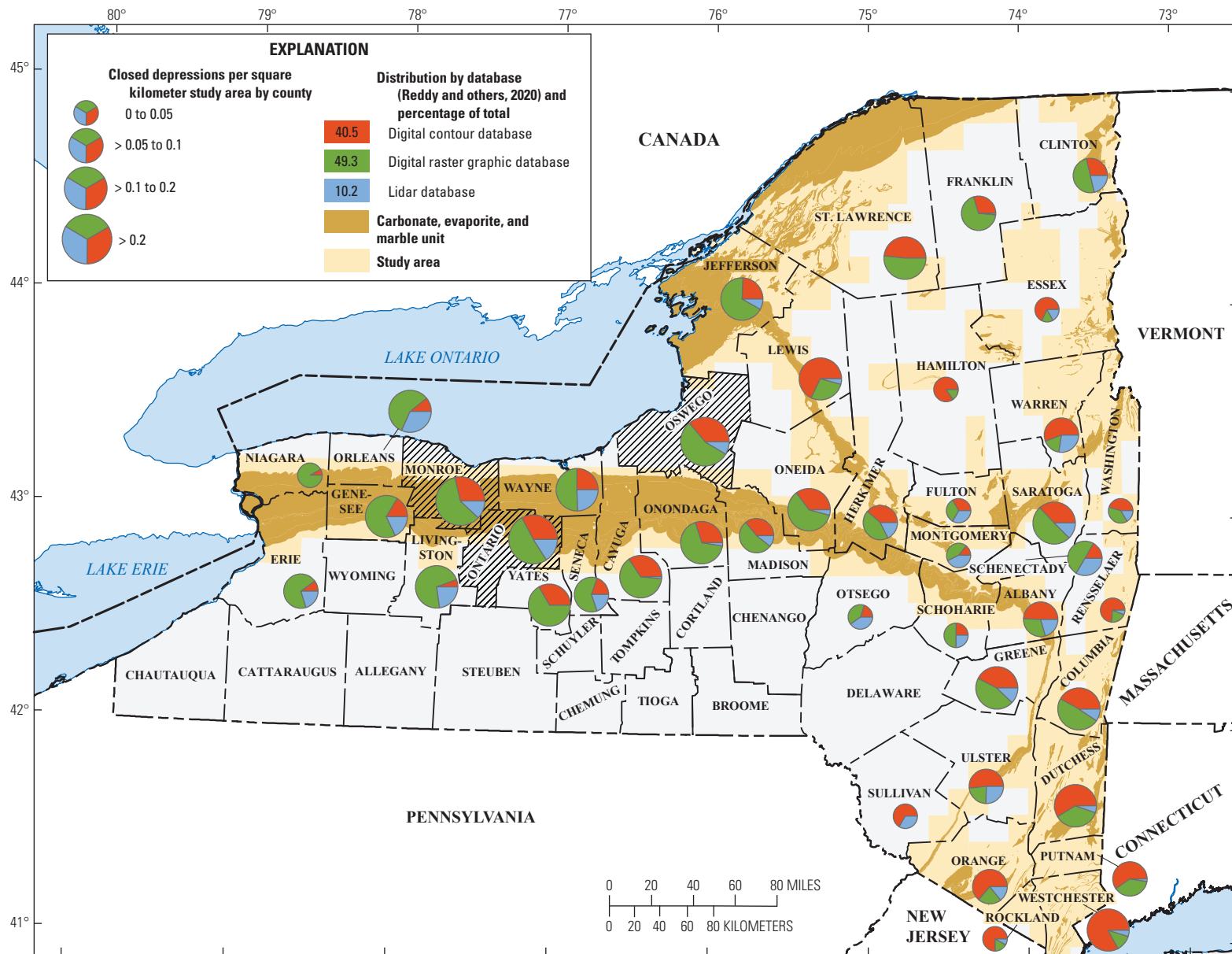


Figure 35. Concentration of closed depressions in New York, per square kilometer of study area for each county. The counties with the highest concentration of closed depressions (hachured) are Monroe, Ontario, and Oswego. >, greater than.

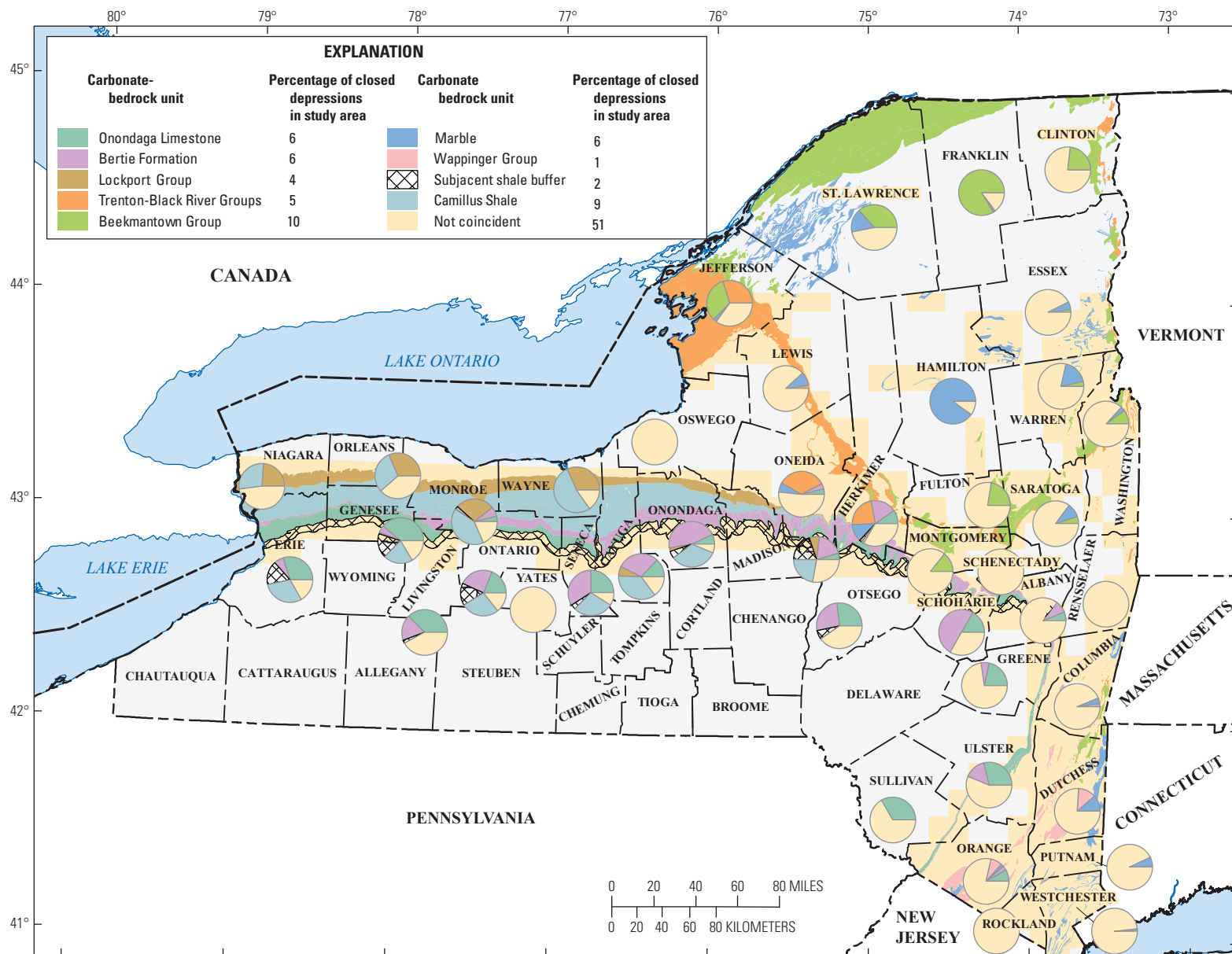


Figure 36. Bedrock geology and distribution of closed depressions in New York, by county.

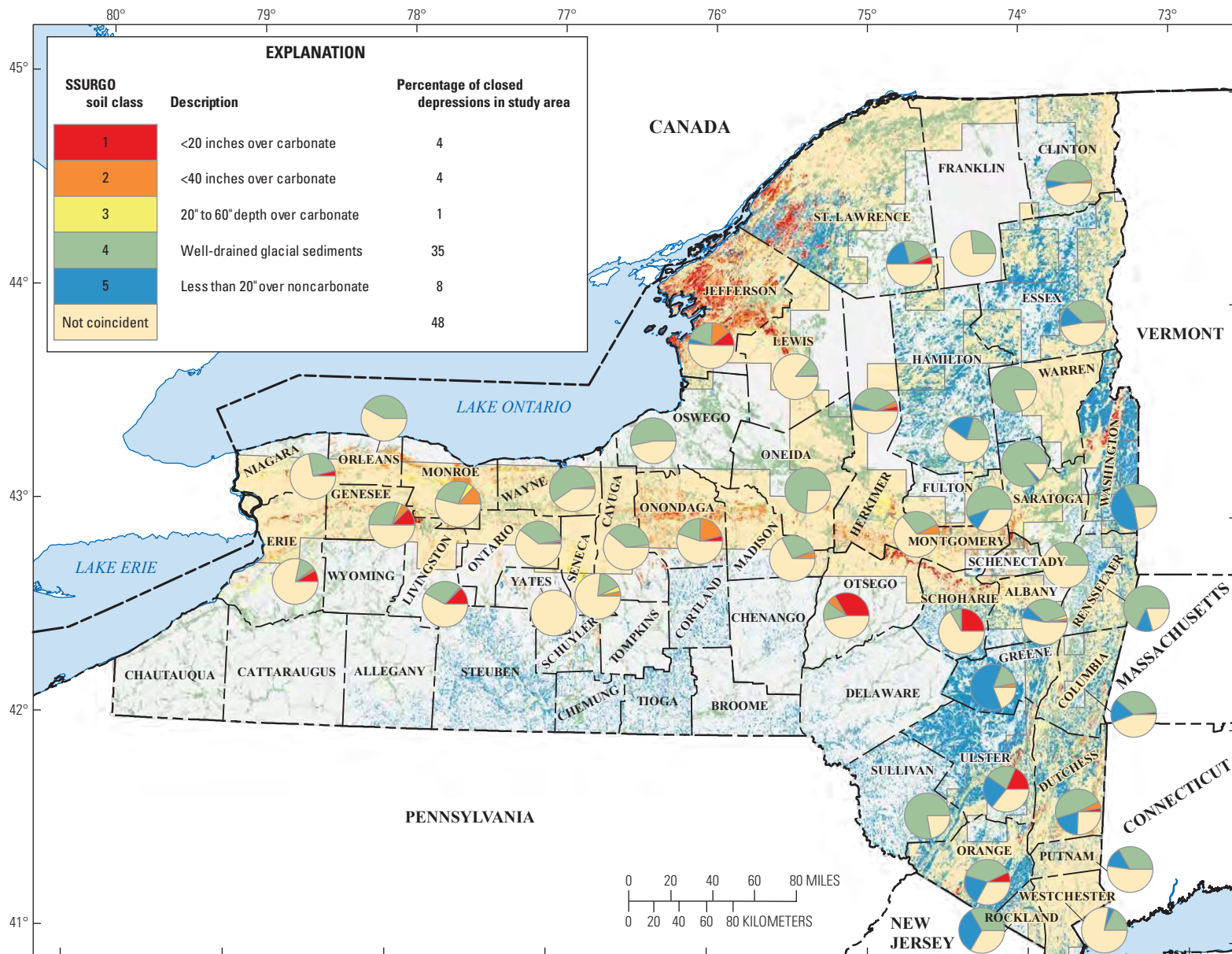


Figure 37. Distribution of soils and closed depressions in New York, by county. SSURGO, Soil Survey Geographic database (Natural Resources Conservation Service, 2019); <, less than.

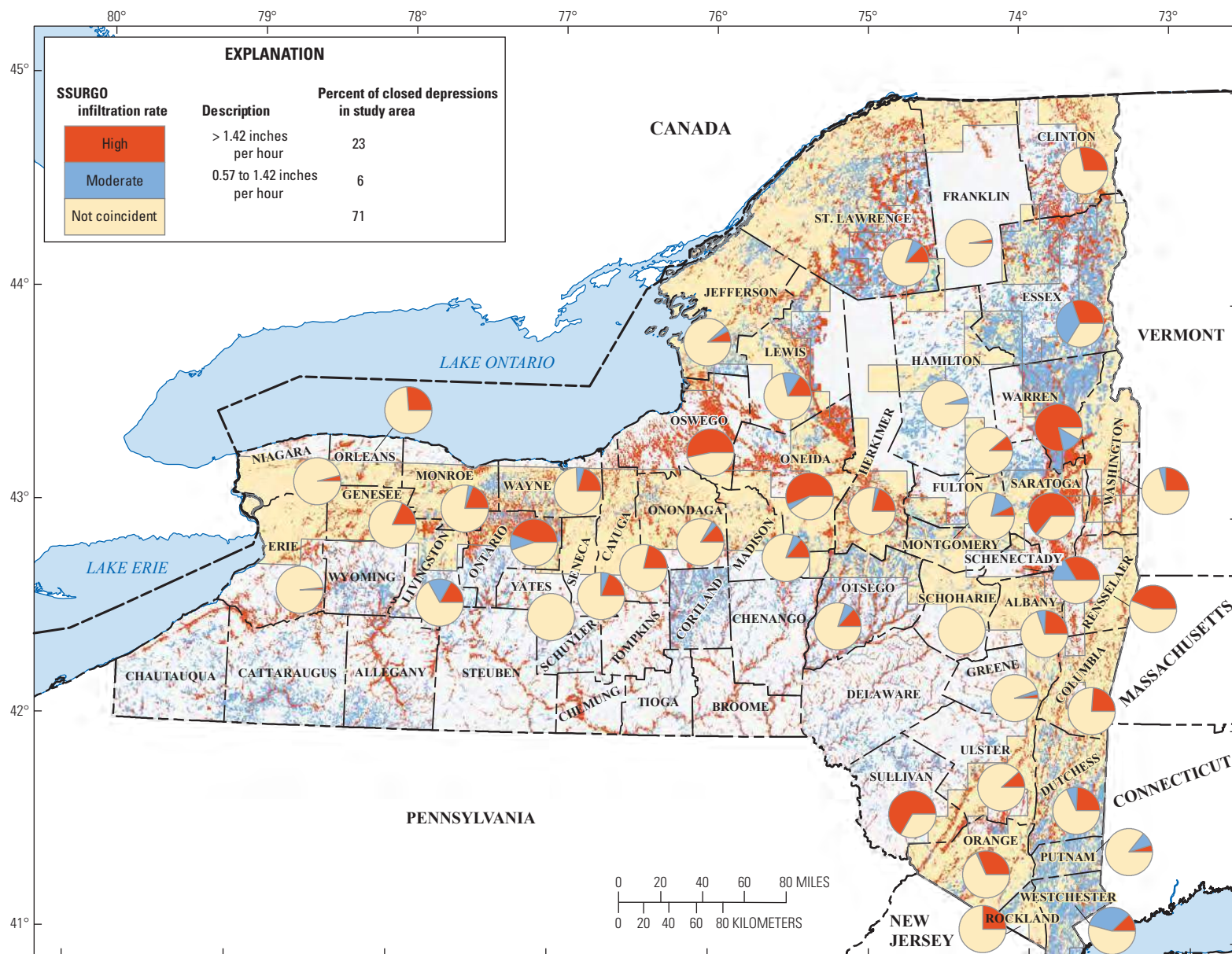


Figure 38. Distribution of soil infiltration rate and closed depressions in New York, by county. SSURGO, Soil Survey Geographic database (Natural Resources Conservation Service, 2019); >, greater than.

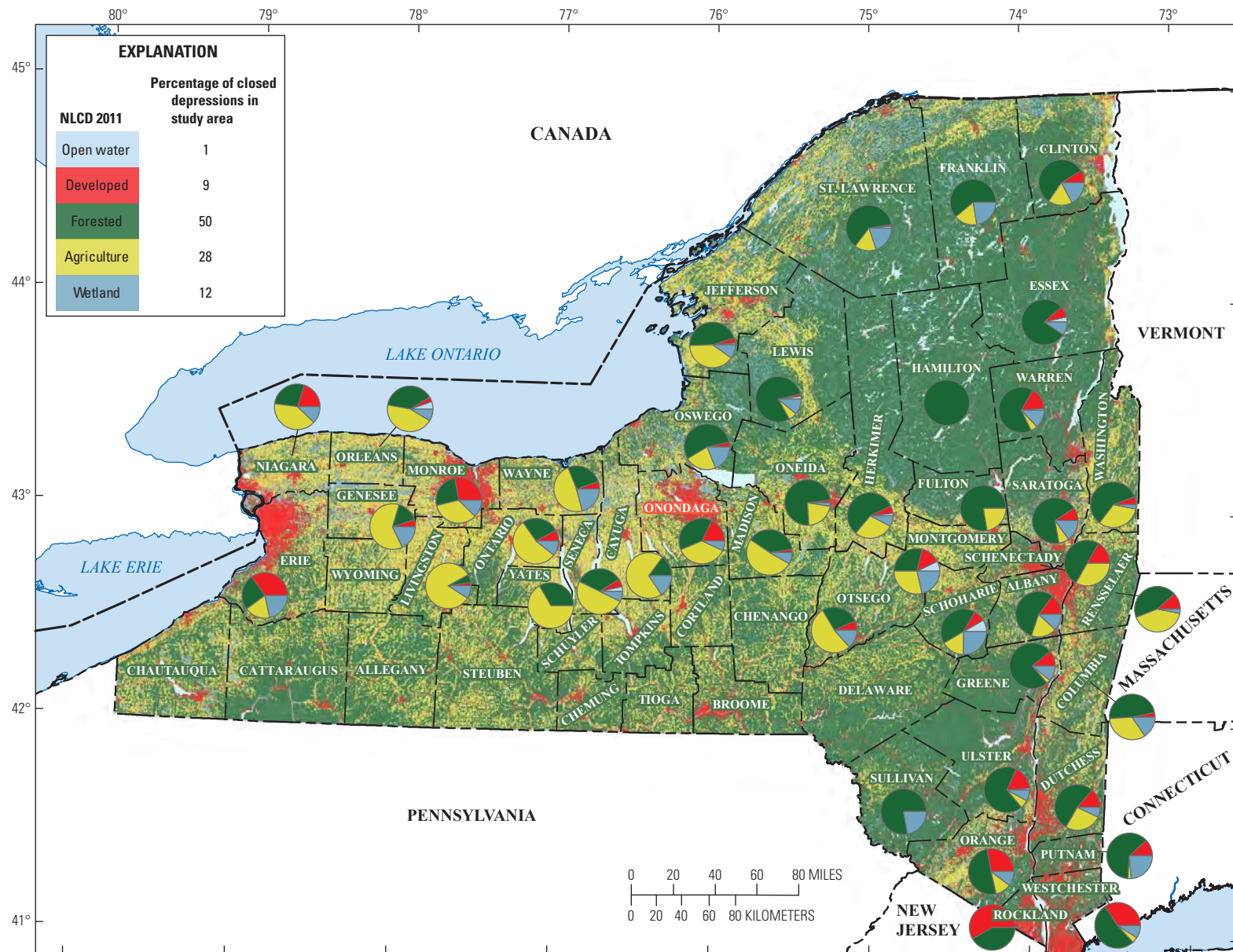


Figure 39. Distribution of land cover and closed depressions in New York, by county. NLCD 2011, National Land Cover Database for 2011 (Homer and others, 2015; U.S. Geological Survey, 2015).

Summary

Karst is a landscape formed from the dissolution of soluble rock or rock containing minerals that are easily dissolved from within the rock. The landscape is characterized by sinkholes, caves, losing streams, springs, and underground drainage systems which rapidly move water through the karst. The two forms of karst in New York State include carbonate karst, which forms in carbonate rock (limestone, marble, and dolostone), and evaporite karst, which forms in rock that contains evaporite minerals (gypsum and halite). Closed depressions that are created at the land surface by karstification of the underlying bedrock or through other natural or anthropogenic processes focus surface-water recharge to underlying bedrock.

Past and recent studies of karst bedrock across the State have shown that areas of focused recharge in karstic carbonate rock allows contaminants to enter aquifer systems with little attenuation. Focused areas of recharge need to be identified to help prevent such contamination from sources on or adjacent to karst. The New York State Department of Environmental Conservation has begun to work with the agricultural community to make farmers and farm-planning advisors more aware of karst and how to manage their daily activities to reduce their impact on surface-water and groundwater resources, especially in karst areas. Where evaporite karst is present, in addition to limited attenuation of any contaminant within a karst system, there is also a greater potential for land-surface subsidence due to the more-aggressive dissolution of evaporite minerals (gypsum or halite) if close to the land surface or as a result of mining of these evaporite minerals.

The U.S. Geological Survey has compiled an inventory of closed depressions from statewide digital contour data, scanned 7.5-minute topographic maps known as a digital raster graphics, and light detection and ranging (lidar) digital elevation models. The identification of where karst rock is present in New York and the location of closed depressions over or near karst rock was completed using publicly available geospatial data and Esri ArcGIS software. Carbonate, evaporite, and marble geologic units were selected from a statewide 1:250,000-scale bedrock geology dataset. The selected geologic units were intersected with an index of 7.5-minute quadrangle maps. Quadrangle maps that overlay the selected geologic units form the basis of the study area.

Analysis of the data resulted in the identification of 5,023 closed depressions. The results are publicly available in three databases, one for each source of elevation data. The inventory was conducted such that there is no duplication of results from analysis of the three data sources. The closed depression features in the digital contour database and the lidar database are represented as polygon features. Points are used to represent the closed depressions in the digital raster graphic database.

A series of overlay analyses were conducted using the closed depressions and thematic data known to be key factors in determining the probability of a closed depression contributing to focused groundwater recharge. The thematic data

layers used for the analyses were bedrock geology, soil type, soil infiltration rate, and land cover. Results from the overlay analyses were added as attributes to the data tables associated with the three publicly available databases.

Though the extent of karst development is important in understanding the surface water–groundwater interaction in karst terrains, some of the worst cases of groundwater contamination are in karst where only minor karst features might be present. The presence of karst, be it a short section of a solutioned fracture or an extensive cave system requires careful consideration, forward-looking environmental planning, and consistent water-quality protection to preserve New York State's water resources.

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Glossary of Selected Karst Terminology

This glossary was adapted from Monroe (1970) and Field (2002). The referenced glossaries are more extensive, as the terms shown here are related to just those used in this report. The etymologic origin for some of the terminology is shown in brackets.

A

allogenic recharge Recharge from adjacent insoluble bedrock into a soluble karst aquifer.

aquifer A groundwater reservoir; pervious rock that is completely saturated and will yield water to a well or spring.

B

bare karst *See* naked karst

bedding plane A plane or surface that separates two strata of differing characteristics.

bicarbonate A salt containing the radical bicarbonate (HCO_3^{-1}), such as calcium bicarbonate [$\text{Ca}(\text{HCO}_3)_2$].

blowing cave A cave out of which or into which a current of air flows intermittently.

C

calcite A mineral composed of calcium carbonate (CaCO_3), such as aragonite, but differing in crystal form; the principal constituent of limestone.

carbonate A salt or ester of carbonic acid; a compound containing the radical carbonate (CO_3^{-2}), such as CaCO_3 . Also, a rock consisting mainly of carbonate minerals, such as limestone or dolostone.

cave A natural underground room or series of rooms and passages large enough to be entered by a person; generally formed by solution of limestone. Also, a similar artificial opening.

cave system An underground network of passages, chambers, or other cavities. Also, the caves in a given area related to each other hydrologically, whether continuous or discontinuous from a single opening.

chert Light-cream or gray to black rock composed of silica (silicon dioxide [SiO_2]), found occurring as nodules or layers in limestone, or as a replacement of limestone.

clint [country of origin, United Kingdom] Slabs of limestone, parallel to the bedding, forming a fractured limestone pavement. Widened joints, or grikes, isolate individual limestone slabs.

closed depression A general term for any enclosed topographic basin having no external drainage, regardless of origin or size.

conduit A subterranean stream course filled completely with water and always under hydrostatic pressure.

D

doline A basin- or funnel-shaped hollow in limestone, ranging in diameter from a few meters to a kilometer, and in depth from a few to several hundred meters. Some dolines are gentle grassy hollows; others are rocky cliff-bounded basins. Closed depressions receiving a stream are known as swallow holes or stream sinks. In the United States most dolines are referred to as sinks or sinkholes.

dolomite A mineral composed of calcium magnesium carbonate [$\text{CaMg}(\text{CO}_3)_2$].

dolostone Rock chiefly composed of the mineral dolomite.

dolomitization The process whereby limestone becomes dolomite by the substitution of magnesium carbonate for part of the original calcium carbonate.

E

epiphreatic zone The zone in a cave system, immediately above the phreatic (saturated) zone, affected morphologically and hydrologically by floods too large for the cave to absorb at once. Also known as epiphreas.

exsurgence The point at which an underground stream reaches the surface if the stream has no known surface headwaters.

F

fluorescein A reddish-yellow crystalline compound that imparts a brilliant green fluorescent color to water in very dilute solutions; used to label groundwater for identification of an emergence.

formation The fundamental unit in rock, a stratigraphic classification, consisting of a distinctive mappable body of rock.

G

grike [country of origin, United Kingdom] A vertical or subvertical cleft in a limestone pavement developed by solution along a joint or system of crisscrossing joints. Grikes separate clints from one another.

groundwater The part of the subsurface water that is in the zone of saturation. Used loosely by some to refer to any water beneath the surface. *See also* phreatic water.

gypsum A mineral composed of hydrous calcium sulfate ($\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$).

H

hydraulic conductivity The ability of a rock unit to conduct water under specified conditions.

I

inflow cave Cave into which a stream flows or formerly entered.

influent cave See inflow cave

intake or recharge area The surface area in which water is absorbed into an aquifer eventually to reach the zone of saturation.

K

karren [country of origin, Germany] Channels or furrows caused by solution on massive bare limestone surfaces; they vary in depth from a few millimeters to more than 1 meter and are separated by ridges. In modern usage, the terms are general, describing the total complex of superficial solution forms (grikes and clints) found on compact pure limestone.

karst [originally, the German form of the Slavic word *kras* or *kras*, meaning a bleak waterless place; the German name for a district east of Trieste having such terrain] A terrain, generally underlain by limestone, in which the topography is chiefly formed by the dissolving of rock, and which is commonly characterized by karren, closed depressions, subterranean drainage, and caves.

karst plain A plain on which closed depressions, subterranean drainage, and other karst features may be developed. Also called a karst plateau.

karst topography Topography dominated by features of solutional origin.

karstic Occasionally used as the adjective form of karst.

karstification Action by water, mainly chemical but also mechanical, that produces features of a karst topography, including such surface features as dolines, karren, and mogotes and such subsurface features as caves and shafts.

L

limestone A sedimentary rock consisting chiefly of calcium carbonate.

limestone pavement A bare plane surface of limestone, parallel to the bedding, commonly divided into blocks (clints, *flachkarren*) by solutionally widened joints (grikes, *kluftkarren*), and pitted by solution pans.

M

marble Limestone recrystallized and hardened by heat and pressure. Commercially, any limestone that will take a high polish

marl Unconsolidated sedimentary rock consisting largely of calcium carbonate and clay; usage varies from calcareous clay to earthy limestone; in some parts of the United States, the term has been used for any unconsolidated sedimentary rock containing fossil shells.

N

naked karst Karst topography having much exposed bedrock.

P

paleokarst A karstified rock or area that has been buried by later sediments; in some places, ancient caves have been completely filled by the later sediments.

passage In a cave, the opening between rooms or chambers.

permeability The ability of a rock or soil to permit water or other fluids to pass through it.

phreatic water [from the Greek word *φρέαρ*, meaning well] Water in the zone of saturation, below the water table.

phreatic zone The region below the water table, in which rock is saturated with water.

piezometric surface The imaginary surface to which water from a given aquifer will rise under its full static head. Also called potentiometric surface.

pipe Small cylindrical hole in unconsolidated sediments caused by removal of fine material by water.

pipng Formation of a passage by water under pressure in the form of conduits through permeable materials, when the hydraulic head exceeds a certain critical value.

polje [Slavic word meaning field] In areas of karst topography, a very large closed depression, in some places several kilometers long and wide, having a flat floor either of bare limestone or covered by alluvium, and surrounded by generally steep walls of limestone.

ponor [Slavic] Hole in the bottom or side of a closed depression through which water passes to or from an underground channel. *Compare to* swallet, swallow hole.

porosity The ratio of the aggregate volume of interstices in a rock or soil to its total volume; generally stated as a percentage.

pseudokarst Karstlike terrain produced by a process other than the dissolving of rock, such as the rough surface above a lava field, where the ceilings of lava tubes have collapsed. Features of pseudokarst include lava tunnels, lava tubes, lava stalactites, and lava stalagmites.

R

recharge area See intake area

resurgence A point at which an underground stream reaches the surface and becomes a surface stream. In European literature, the term is reserved for the reemergence of a stream that has earlier sunk upstream; the term resurgence is applied to a stream without known surface headwaters.

rhodamine A family of related chemical compounds (fluorone dyes) used to label groundwater to determine the rate and direction of flow and transport. Rhodamine dyes fluoresce and can be detected with a fluorometer.

S

sink *See* sinkhole

sinkhole [country of origin, United States] General terms for closed depressions. May be basin, funnel, or cylindrical shaped. *See also* closed depression; doline; swallet; swallow hole.

solution pipe A vertical cylindrical hole attributable to solution, often without surface expression, filled with debris, such as sand, clay, rock chips, and bones.

solution scarp Escarpment formed by more active solution of lower area or by corrosional undercutting of the base of the escarpment.

solution subsidence Any subsidence caused by solution of underlying rock but particularly the subsidence of parts of a formation into hollows or pockets of an immediately underlying soluble formation.

speleogenesis The varied processes by which caves are formed.

spring Any natural discharge of water from rock or soil onto the surface of the land or into a body of surface water.

subjacent karst Karst landscape in noncarbonate rocks due to presence of karstified rocks beneath the surface formation.

subsidence The lowering of the surface of the ground because of removal of support. Caused in karst areas by subterranean solution or collapse of caves.

swallet [country of origin, United Kingdom] A place where water disappears underground in a limestone region. A swallow hole generally implies water loss in a closed depression or blind valley, whereas a swallet may refer to water loss into alluvium at a streambed, even though there is no depression.

swallow hole *See* swallet

T

travertine Calcium carbonate, light in color and generally concretionary and compact, deposited from solution in ground and surface waters. Extremely porous or cellular varieties are known as calcareous tufa, sinter, or spring deposit. Compact banded varieties, capable of taking a polish, are called onyx marble or cave onyx.

V

vadose water Water in the zone of aeration, above the zone of saturation (water table).

vug A small cavity in rock usually lined with crystals.

W

water table The upper boundary of an unconfined zone of saturation, along which the hydrostatic pressure is equal to the atmospheric pressure.

Z

zone of aeration The zone in permeable soil or rock that is above the zone saturated with water, the zone of vadose water.

zone of saturation The zone in permeable soil or rock that is saturated with water; the phreatic zone.

Appendix 1. Characteristics of Caves in New York

Table 1.1. Characteristics of caves in New York, by county.[USGS, U.S. Geological Survey; quad, topographic quadrangle; mi, mile; ft, foot; ft³/s, cubic foot per second; TCE, trichloroethene; <, less than]

County	Geology	Karst features present	Cave size	Cave frequency	Cave hydrology	Other solution- or karst-related features	Comments ¹
Albany	Helderberg, Onondaga limestones, and talus	Sinkholes, solution channels, springs, caves, and caverns	Mostly small, some large (long) caverns present	Extensive	Wet and seasonally dry	—	Clarksville 7.5-minute USGS quad has nearly 170 identifiable karst features and this count does not include solutionally-enlarged joints. The overwhelming majority of the county's caves are small. This high number represents many small caves found in isolated knolls and valleys formed as the result of folding and faulting commonly found throughout much of the southern part of the county. In fact, in sheer numbers, most of the county's caves are found from Thatcher State Park and south. This is that part of the county that shows increasing structural complexity the farther south one goes, entering what Marshak (1990) calls the Hudson Valley fold-thrust belt.
Allegany	No karst	—	—	—	—	—	
Bronx	Inwood marble	Caves (very small) not verified, possible solution channels	Small	Uncommon	Unknown	—	
Broome	Talus	Caves possible but not verified	Small	Uncommon	Unknown	—	
Cattaraugus	Fractured-rock caves in conglomerates	Fracture caves, unknown solution features	Very small	Uncommon	Dry	—	Olean Rock City, Salamanca Rock City, Thunder Rocks, Bear Cave Ledge
Cayuga	Onondaga Limestone	Sinkholes, solution channels, springs, a few caves (historic reports)	Small	Present	Unknown for caves, solution channels with variable water levels.	—	Robert W. Carroll Jr. reports sinkholes in the Auburn area that during the mid-1960s defied efforts to fill them. [Study of contaminant plume flowing down dip in the Onondaga Limestone, from Auburn area to Union Springs (Cayuga Lake), New York (Eckhardt and others, 2011; U.S. Environmental Protection Agency, 2019)]*
Chautauqua	Fractured-rock caves in conglomerates	Fracture caves	Small	Present	Dry?	—	Panama Rocks There are stories of submerged limestone caves in Lake Erie, but nothing has ever been verified.

Table 1.1. Characteristics of caves in New York, by county.—Continued

[USGS, U.S. Geological Survey; quad, topographic quadrangle; mi, mile; ft, foot; ft³/s, cubic foot per second; TCE, trichloroethene; <, less than]

County	Geology	Karst features present	Cave size	Cave frequency	Cave hydrology	Other solution- or karst-related features	Comments ¹
Chemung	No karst	—	—	—	—	—	
Chenango	No karst	—	—	—	—	—	
Clinton	Talus, fracture caves, limestone of the Chazy Group, Trenton/Black River Group limestone, and Beekmantown Group	Talus caves generally found in gneiss	Small	Present	Mostly dry, Some wet caves adjacent to and in Lake Champlain	—	On Valcour Island there are at least two maze caves each exceeding 400 ft in length. The passages are typically tear-drop in shape. These caves are at lake level with 85 percent or more of the passage below water. Indeed, there is evidence for substantial karstification below water. Whether this represents ongoing processes or are remnants of lower lake levels is not clear at this time. There are also some fracture caves formed in the Potsdam Sandstone in the area of Ausable Chasm.
Columbia	Marble, possibly limestone	Marble caves, unknown solution features	Small	Present	Dry	—	No bottom pond drains to marble karst adjacent to pond.
Cortland	No karst	—	—	—	—	—	
Delaware	No karst	—	—	—	—	—	
Dutchess	Marble	Few caves, some rock shelters, unknown solution features	Small	Present	Unknown	—	
Erie	Onondaga Limestone, Camillus shale (gypsum)	Sinkholes, solution channels, springs, few small caves	Small	Present	Dry caves, solution channels saturated, flow to west	Former gypsum mines north of the Onondaga Limestone escarpment may have caused minimal subsidence issues as mine openings collapse.	Diversion of quarry discharge away from nearby sinkhole caused extensive dewatering of homeowner wells in 1980s along closed depression-solution channel over an approximate 4-mi length (Staubit and Miller, 1987). Onondaga Limestone is sometimes used to ‘drain wells’ for surface runoff and shallow soil dewatering.*

Table 1.1. Characteristics of caves in New York, by county.—Continued[USGS, U.S. Geological Survey; quad, topographic quadrangle; mi, mile; ft, foot; ft³/s, cubic foot per second; TCE, trichloroethene; <, less than]

County	Geology	Karst features present	Cave size	Cave frequency	Cave hydrology	Other solution- or karst-related features	Comments ¹
Essex	Talus, marble, fracture caves, limestone?	Talus caves, some solution features	General small talus caves, although a few exceed 1,000 ft in length. Few marble caves, and few fracture caves	Extensive	Dry	—	The longest known solutional caves are Burroughs Cave (2,000+ ft) and Big Loop Cave (1,150 ft). Burroughs Cave is the longest known marble cave in New York. There are some short fracture caves (most are <20 ft long) in the county. Most notable is Pitchoff Mountain Cave formed in anorthosite. There are also a few fracture caves in Potsdam Sandstone in the east part of the county, near Lake Champlain.
Franklin	Talus, fracture caves	Unknown solution features	Small	Present	Dry	—	
Fulton	Talus, Limestone	Some sinkholes, solution channels, springs	Small	Uncommon	Dry	—	The Little Falls Dolomite and Ordovician-aged limestones crop out in the county, but no caves are known.
Genesee	Onondaga Limestone, Camillus shale (gypsum)	Sinkholes, solution channels, springs, a few small caves	Small	Sinkholes, solution channels, and springs present, caves uncommon	Solution channels intermittently wet	The Camillus Shale has a thin bed of gypsum (3 to 5 ft thick) which has been mined north of the Onondaga Escarpment. It has been reported that small solutional conduits drained into these mines and some land-surface subsidence (bulk or sinkhole subsidence features) has also occurred as the mine openings collapse.	One of the largest sinking streams in New York, Oatka Creek, is found there, and has a drainage area of 139 mi. On the east side of the County the Onondaga Limestone and other bed-rock units have been displaced to the north by the Clarendon-Linden Fault and there are several karst springs along and near the fault. [Also see Reddy and Kappel (2010) for a study of karst in the Onondaga Limestone in Genesee County.]*

Table 1.1. Characteristics of caves in New York, by county.—Continued

[USGS, U.S. Geological Survey; quad, topographic quadrangle; mi, mile; ft, foot; ft³/s, cubic foot per second; TCE, trichloroethene; <, less than]

County	Geology	Karst features present	Cave size	Cave frequency	Cave hydrology	Other solution- or karst-related features	Comments ¹
Greene	Helderberg and Onondaga Limestones, a few fissure caves in Catskill region in conglomerates	Few sinkholes and solution channels, some caves	Small	Present	Unknown	—	These limestones are all found in the Hudson Valley fold-thrust belt. The rocks are largely folded and faulted and are compressed in an east-west direction. As a result, many of the limestone caves are generally oriented along the strike of the major faults or down locally, in steeply dipping rock.
Hamilton	Marble, talus, and fracture caves. Limestone?	Caves, mostly short, in talus, although some may be solutional.	Small	Present	Unknown	—	
Herkimer	Trenton-Black River Limestone, marble, talus, fracture, and two tufa caves.	Caves, generally small, sinkholes, short solution channels	Small	Present	Unknown	—	Of interest is the chyle hole. This feature, a large occluded sink that takes a stream, has given its name to similar features in parts of Herkimer, Oneida, and Otsego Counties. Thus, locals often refer to sinks as chyle holes. The Van Hornesville Tufa Caves are one of two known groups of caves formed in calcareous tufa in the State.
Jefferson	Trenton-Black River Group Limestone, marble, talus fracture caves and two tufa caves.	Caves, solution channels, sinkholes, losing/gaining streams	Mostly small, a few larger (long) caverns present	Common	Intermittently to nearly always wet	—	All but a few of these caves are formed in the Ordovician-aged Trenton-Black River Group limestones. The exception is Natural Bridge Caverns formed in pre-Cambrian marbles (often called the Grenville Marble). At 2,000 ft, this is the longest known marble cave in New York.
Kings	No karst	—	—	—	—	—	
Lewis	Trenton-Black River Group limestone, marble	Solution channels, some caves	Small cases mostly	Present	Unknown	—	There is one known large cave—Drought Cave (2,000 ft)—close to the Oneida County line just north of Boonville. This low number may be because few people are looking. The Sugar River sinks into the its limestone channel.

Table 1.1. Characteristics of caves in New York, by county.—Continued[USGS, U.S. Geological Survey; quad, topographic quadrangle; mi, mile; ft, foot; ft³/s, cubic foot per second; TCE, trichloroethene; <, less than]

County	Geology	Karst features present	Cave size	Cave frequency	Cave hydrology	Other solution- or karst-related features	Comments ¹
Livingston	Onondaga Limestone	Solution channels, sinkholes, springs, losing/gaining streams	Unknown	Uncommon	Unknown	A few phantom lakes and ponds occur in the Onondaga Limestone where it crops out near land surface - variable solution channel capacities cause these intermittent water bodies to quickly appear and disappear.	Karst is found near Caledonia where one of the State's largest karst springs, Big Spring, is located. It has a low flow of 5 ft ³ /s. [A railroad tank car derailment in 1970 caused a large amount of TCE to flow into the Onondaga Limestone and flowed eastward, but it was never detected (at any level of concern) in Big Spring which feeds a fish hatchery (U.S. Environmental Protection Agency, 2017).]*
Madison	Helderberg and Onondaga Limestone	Solution channels, springs, cascading water in wells, losing/gaining streams	None known	Uncommon	Unknown	—	Some caves are reported near Chittenango/Chittenango Falls State Park. [Cascading water in drinking water wells has caused groundwater/surface water interaction, causing drinking-water well, water-quality issues.]*
Monroe	Onondaga Limestone, Camillus shale (gypsum)	Solution channels, sinkholes, springs	None known	Uncommon	Unknown	Gypsum mines north of the Onondaga Limestone escarpment have caused subsidence issues, such as in Monroe County's Oatka Creek Park.	
Montgomery	Dolostone, limestone	Fractured (faulted) rock	Small	Uncommon	Unknown	—	
Nassau	No karst	—	—	—	—	—	
New York (Manhattan)	Inwood marble	Very small caves, unknown karst features	Small	Uncommon	Unknown	The type locality of the Inwood Marble is Inwood Park at the north end of Manhattan Island. There are three small caves here and two in Central Park.	

Table 1.1. Characteristics of caves in New York, by county.—Continued

[USGS, U.S. Geological Survey; quad, topographic quadrangle; mi, mile; ft, foot; ft³/s, cubic foot per second; TCE, trichloroethene; <, less than]

County	Geology	Karst features present	Cave size	Cave frequency	Cave hydrology	Other solution- or karst-related features	Comments ¹
Niagara	Lockport Dolostone	Some sinkholes, solution channels, and springs known, a few caves	Small	Uncommon	Dry?	The few karst features that are found in the upper weathered Lockport Dolostone are usually associated with solution channels: some vertical, some flowing along discrete bedding planes in the Lockport Dolostone. The large caves appear to be found near the Lockport Escarpment.	Lockport Dolostone unit has some large caves on either side of the Niagara River gorge and along its escarpment. Lockport Cave may have had as much as 2 mi of passage, but the cave has not been found in recent times. Of the approximately 40 caves, 7 are historically well documented, but have since been destroyed. Five other caves are rumored or lost.
Oneida	Trenton Limestone (north) Helderberg-Onondaga Limestone (south) and tufa	Sinkholes, solution channels and springs, but few caves	Small	Uncommon	Unknown	There is a calcareous tufa deposit northwest of Waterville at Forge Hollow that contains one of two known groups of New York caves formed in such material. The Unadilla River rises from a limestone spring. There are reports of caves upstream from Pixley Falls State Park, where the Lansing Kill apparently sinks into a fissure resurging 0.5 mi downstream.	

Table 1.1. Characteristics of caves in New York, by county.—Continued

[USGS, U.S. Geological Survey; quad, topographic quadrangle; mi, mile; ft, foot; ft³/s, cubic foot per second; TCE, trichloroethene; <, less than]

County	Geology	Karst features present	Cave size	Cave frequency	Cave hydrology	Other solution- or karst-related features	Comments ¹
Onondaga	Onondaga and Manlius Limestone, Camillus Shale (gypsum)	Few sinkholes, minor caves, fracture-openings, evaporite subsidence	Very small	Uncommon	Unknown	One small cave under I-81 in south Syracuse documented by New York State Department of Transportation, and several fracture-opening caves adjacent to Rock Cut Road quarry escarpment.	See Robertson (1970) for information on caves in Onondaga County. [Subsidence of about 30 ft attributed to gypsum dissolution (Phillips, 1955). City infrastructure study also looked at water main breaks in relation to several anthropogenic factors and gypsum. Engineering studies have documented infrastructure subsidence in the Camillus region of the City.]* French (1860) suggests gypsum caves near Jamesville.
Ontario	Onondaga Limestone	Few sinkholes, solution channels noted	None known	Uncommon	Unknown		
Orange	Marble, Helderberg and Onondaga Limestone	Some solution features may be present	Small	Uncommon	Unknown		The best-known caves are probably Dutchess Quarry Caves 1 through 9. These are actually only four small caves, but all have great archeological significance.
Orleans	No karst	—	—	—	—	—	
Oswego	No karst	—	—	—	—	—	
Otsego	Helderberg and Onondaga Limestone, and fracture openings in shale	Sinkholes, solution channels, springs, possible losing/gaining streams	Generally small	Present	Mixed	—	The Helderberg and Onondaga limestones are exposed in irregular bands along the northern edge of the county. There is much karst to be explored and one suspects that the lack of caves is from a lack of looking and nothing more. Summit Lake is fed by some large karst springs to the east which resurge at the base of the Onondaga limestone. Two fracture caves formed in shale near Cooperstown.
Putnam	Marble	Unknown solution features	Very small	Uncommon	Unknown	—	A scattering of marble slivers in the Taconic mélange are found throughout Putnam County though they are more common in the eastern half of the county. None of the 10 or so small caves are notable.
Queens	No karst	—	—	—	—	—	

Table 1.1. Characteristics of caves in New York, by county.—Continued

[USGS, U.S. Geological Survey; quad, topographic quadrangle; mi, mile; ft, foot; ft³/s, cubic foot per second; TCE, trichloroethene; <, less than]

County	Geology	Karst features present	Cave size	Cave frequency	Cave hydrology	Other solution- or karst-related features	Comments ¹
Rensselaer	Marble, tectonic fracture	Unknown solution features	Very small	Uncommon	Unknown	—	Snow Hole is a small tectonic cave formed in slate and phyllite. It generally contains snow and ice well into summer. Country Club Cave is a gravity-slip block cave formed in shale.
Richmond	No karst	—	—	—	—	—	
Rockland	Marble, fracture caves	Unknown solution features	Very small	Uncommon	Unknown	—	Rockland includes some marble outcrops and a few small caves. The best-known caves in the county, however, are small fissure caves formed in igneous and other metamorphic rocks.
Saint Lawrence	Talus, marble, Potsdam sandstone (fracture) caves	Sinkholes, some solution channels, springs	Small	Common	Unknown	—	The predominant cave type in the county is talus, with about 70 known solutional caves, and there are fracture caves in the Potsdam Sandstone in the northern part of the county.
Saratoga	Beekmantown Group Limestone, dolostone	Few sinkholes, some solution features	Very small	Uncommon	Unknown	—	All known karst lie in the Ordovician-aged limestones that ring the Adirondacks. There is karst in Saratoga Springs and stories about caves in Congress Park and under the new Skidmore Campus. Two new cave discoveries have come to light between Saratoga and Glens Falls, and others west of Saratoga.
Schenectady	Dolostone, limestone	Fractured (faulted) rock	Small	Uncommon	Unknown	—	

Table 1.1. Characteristics of caves in New York, by county.—Continued

[USGS, U.S. Geological Survey; quad, topographic quadrangle; mi, mile; ft, foot; ft³/s, cubic foot per second; TCE, trichloroethene; <, less than]

County	Geology	Karst features present	Cave size	Cave frequency	Cave hydrology	Other solution- or karst-related features	Comments ¹
Schoharie	Helderberg and Onondaga Limestone	Many sinkholes, solution channels, springs, caves and caverns, losing/gaining streams	Many lengths	Extensive	Mixed	—	There are three major cave areas in the county: the Cobleskill Plateau, Terrace Mountain, and Barton Hill. The Cobleskill Plateau is bounded on the south by the Cobleskill Creek, on the east by the Schoharie Creek, on the north by the Helderberg escarpment, and on the west by the younger Devonian formations, most notably the Esopus Shale. There is a fourth area that will likely yield large caves in the future, but now has only a few small caves. The area is bounded on the north and west by Kings Creek, on the south by the Fox Creek, and on the east by the Albany County line. In the northwest corner of the county are sinkholes thousands of feet across that have yet to be checked out.
Schuyler	No karst	—	—	—	—	—	
Seneca	No karst	—	—	—	—	—	
Steuben	No karst	—	—	—	—	—	
Suffolk	No karst	—	—	—	—	—	
Sullivan	Limestone	Unknown solution features	One long cave	Uncommon	Unknown	—	Limestone is found only along the southeast edge of Sullivan County. In that relatively small, steeply dipping exposure there is one large cave: Surprise or Mystery Cave with 9,975 ft of passage.
Tioga	No karst	—	—	—	—	—	
Tompkins	Tully Limestone/Moscow shale	Solution channels at base of Tully Limestone	Small	Uncommon	Seasonally wet	—	The Tully Limestone crops out north of Ithaca. The caves, which are generally joint-controlled, are formed at the contact between the Tully limestone and the underlying Moscow shale with the majority of the passage in the shale. [Likely other Tully/Moscow caves are present where this contact is exposed along the edges of the Finger Lakes.]*

Table 1.1. Characteristics of caves in New York, by county.—Continued

[USGS, U.S. Geological Survey; quad, topographic quadrangle; mi, mile; ft, foot; ft³/s, cubic foot per second; TCE, trichloroethene; <, less than]

County	Geology	Karst features present	Cave size	Cave frequency	Cave hydrology	Other solution- or karst-related features	Comments ¹
Ulster	Helderberg and Onondaga Limestone, talus, fracture caves	Unknown solution features	Mostly small	Present	Seasonally wet	—	The Helderberg and Onondaga limestones crop out as bands that run south to Kingston and then southwest until they leave the county near Ellenville. In the area from Saugerties through Kingston and down beyond Hurley, the beds are highly folded and faulted. To the southwest the severe deformation ceases, but the beds are still steeply dip to the northwest. The talus and fissure caves are formed in the Shawangunk Grit.
Warren	Marble, talus	Unknown solution features	Small	Present	Unknown	—	Warren County's caves are half solutional and half talus. As with the counties east of the Hudson, Warren County has isolated lenses of marble in which caves have formed. In the southeast corner of the county there is limestone, but no caves are reported.
Washington	Marble, talus, limestone(?)	Unknown solution features	Small	Uncommon	Unknown	—	
Wayne	No karst	—	—	—	—	—	
Westchester	Marble, talus	Unknown solution features	Small	Uncommon	Unknown	—	A scattering of marble slivers in the Taconic mélange are found throughout Westchester County though they are more common in the eastern half of the county.
Wyoming	No karst	—	—	—	—	—	
Yates	No karst	—	—	—	—	—	

¹Comments are from Thom Engle of the Northeastern Cave Conservancy and the National Speleological Society, except where indicated by an asterisk; comments with an asterisk are by William M. Kappel.

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For more information about this report, contact:
Director, New York Water Science Center
U.S. Geological Survey
425 Jordan Road
Troy, NY 12180-8349
dc_ny@usgs.gov
(518) 285-5602
or visit our website at
<https://www.usgs.gov/centers/ny-water>

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Pembroke Publishing Service Center





Neighborhood Sidewalk Project Support Petition

To the Town of Manlius, We support sidewalks on _____
requested by _____ and understand the expense of the construction and
maintenance of the sidewalk shall be collected from the parcels within the proposed sidewalk district with
the goal of applying for ____ percent in grant funding for the project.

	Date	Property Owner Signature	Print Full Name	Street Address	Contact Info (optional)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

Note: A petition to demonstrate support for a Project must be received with at least sixty-five percent (65%) of property owners within the proposed sidewalk district.

Neighborhood Sidewalk Program Application

**Are you and your neighbors interested in building sidewalks on a road in your neighborhood?
Contact the Town Supervisor or a Town Councilor to start an NSP application.**

A Neighborhood Group, Homeowners' Association, or an individual may make a request.
Please fill out the form below with the primary contact.

Project Name: _____

Primary Contact Information

First Name: _____ **Last Name:** _____

Address: _____

Phone: _____ **Email:** _____

As this project will need Town Board approval, what Board Member are you working with?

Project Location: _____

Please detail the need for a neighborhood sidewalk at this location (ex. Safety concerns, Connects to schools, businesses, villages, approximate length, which side of the road, etc.)

Project Description: _____

Is a petition of Property Owners in the proposed sidewalk district attached to this application? Yes / No

Complete the following non-binding information, if known, or keep blank

Project Estimated Cost: _____ **Percent of Grant Funding Requested:** _____

Is the project within the existing Town Right of Ways Easements? _____

A Neighborhood Group, Homeowners' Association, or an individual making the request will need to assist the Town in obtaining necessary easements of Right-Of-Ways that are required for the Project.

Submit this form with petition signatures to the Town Clerk's Office.

Neighborhood Sidewalk Program (NSP)

The Town of Manlius Supervisor and Town Councilors identified a need for a program that allows neighborhoods to organize and build sidewalks to help our children safely walk to school, connect our villages and to increase overall walkability in the Town of Manlius. Therefore, the Town of Manlius has created a Neighborhood Sidewalk Program (NSP) to guide residents through the process of creating a sidewalk district to fund, build and maintain sidewalks and multi-use trails, based on the availability of funding and meeting specific project criteria. This program will use [Town Law Article 12-A](#) to form a sidewalk district if all criteria is met.

The Town of Manlius Neighborhood Sidewalk Program (NSP) serves as a way for the town to partner with neighborhoods to fund, build and maintain sidewalks and multi-use trails.

The goals of the Neighborhood Sidewalk Program are to provide Town of Manlius residents with:

- Improved safety
- Improved pedestrian mobility
- Improved connectivity to schools
- Improved connectivity to parks and recreation facilities
- Improved connectivity between multiple land uses
- Improved connectivity to transit options

Neighborhood Sidewalk Program Process

1. Meet with the Town Supervisor or a Town Councilor to present your proposed project and to review the process of creating a sidewalk district in your neighborhood.
2. A neighborhood group, Homeowners' Association or an individual gathers petition signatures from property owners in the desired neighborhood showing support for the project. The Town Board requires at least 65% of property owners in the proposed neighborhood to show support by the petition signatures.
3. Once the application and petition are verified by the Town Clerk, the proposed project will be presented at a Town Board meeting.
4. If accepted by the Town Board, the town engineer will draft a map, plan and report. This report would include who will be included in the sidewalk district, estimation of costs and grant opportunities.
5. Once the map, plan and report is completed, an informational neighborhood meeting will be held to discuss options and cost with residents.
6. A required public hearing will be scheduled to hear from residents and present the final proposed sidewalk plan.

7. After a public hearing is held, the town board can vote on creating a new sidewalk district which will be subject to a permissive referendum.
8. If no petition for referendum is filled within 30 days and the state comptroller approves, the town board resolution becomes effective and the new sidewalk district is formed.
9. Once the sidewalk district has been formed, the Town & residents will apply for grants, set up funding for the project and go out to bid for the project.

Project Neighborhood Support Demonstrated Through Petitions

The Town of Manlius requires that there be wide support from the community for implementing this program in its neighborhoods. The neighborhood petition to demonstrate support for a Project must be received with at least sixty-five percent (65%) of property owners in the proposed sidewalk district. The Petition should include the name, and address for each petitioner.

The petition must identify a primary contact who will take responsibility for submitting information and assist the Town throughout the project. The petition should be presented in writing to the following:

Town of Manlius
c/o Neighborhood Sidewalk Program
301 Brooklea Drive
Fayetteville, NY 3066

All homeowners must sign individually, including owners of undeveloped lots. The percentages will be calculated, based on individual lots where the owners sign affirmatively, divided by the total number of lots in the neighborhood. Each lot counts as only one lot regardless of the number of owners signing.

The completed petition must be returned to the Town Clerk where it will be verified against tax records and land lot maps to ensure that it meets all requirements. Once verified, the proposed project will be presented to the Town Supervisor and Town Board to be evaluated.

Neighborhood Cost Share

It is recommended that all installation costs for the Neighborhood Sidewalk Program project be shared between the Town and the neighborhood. Installation costs include but are not limited to: establishment of a level shoulder, reconstruction of driveways, construction of the Project, sign and pavement marking modifications, mail box relocation and landscaping. For Projects that require changes that fall outside of easements or Town Right-Of-Way, the neighborhood will assist the Town in obtaining the necessary easements or Right-Of-Ways that are required for the Project to be constructed.

Neighborhood Sidewalk Program Project Request Criteria

Project requests will be evaluated on the following criteria. These criteria will be used to determine a priority for implementation of the neighborhood requests:

Safety Factor: Any potential or demonstrated pedestrian safety hazard, such as crash history, topography, roadway alignment, street lighting, speeds, or completing a missing segment of an existing path will increase the justification for a project.

Trip Generator Factors: Walking becomes an alternative form of transportation when located near a private or public school, Parks and Recreation facility, Transit and Civic facilities. Therefore, this will increase the justification for a project.

Land Use (Zoning) Factors: Requests for projects that promote pedestrian connectivity between land uses, such as links between residential, commercial, and office use will increase the justification for a project, as will higher density zonings, versus lower density zonings.

Neighborhood Cost Share Amount: Projects with a greater Neighborhood Cost Share will increase the justification for the project.

Construction feasibility, including available funding, geographic constraints, and right-of-way: Available funding, geographic constraints, and right-of-way. Adequate right-of-way and/or easements must exist or be donated to the town. Existing shoulder and curb and gutter conditions will have an impact on the project cost and feasibility. Good condition curb and gutter and flat, unobstructed shoulder conditions will increase the justification for a project.

Public Support: The Town Board requires 65% of property owners within the proposed sidewalk district to be in support of the project. This will be demonstrated by the petition requirement with the application of the NSP. The Town Board will be specifically looking for high support among property owners at the project location.

RESOLUTION

A RESOLUTION OF THE TOWN OF MANLIUS, NEW YORK ADOPTING A NEIGHBORHOOD SIDEWALK PROGRAM

WHEREAS, the Town of Manlius Supervisor and Councilors recognizes the need to adopt neighborhood sidewalk policies and procedures to address residents recreation and safety concerns; and

WHEREAS, the Town of Manlius is committed to being a supporting partner in helping residents and neighborhoods devise creative and workable ways to enhance neighborhood safety and livability by working closely with neighborhoods to implement effective and cost efficient solutions; and,

WHEREAS, Sustainable Manlius has prepared the attached Neighborhood Sidewalk Program for the Town of Manlius, New York and recommends its adoption.

Now, THEREFORE BE IT RESOLVED, by the Town Supervisor and Town Board of the Town of Manlius, New York, that the attached Neighborhood Sidewalk Project; and,

BE IT FURTHER RESOLVED, that Town Staff are authorized to perform such actions as are necessary and appropriate for the implementation of the Neighborhood Sidewalk Program; and,

BE IT FURTHER RESOLVED, this resolution shall take effect from and immediately after its passage.

Neighborhood Sidewalk Program

2023



Goals of the Neighborhood Sidewalk Program



Improve Safety



**Improve
Pedestrian
Mobility**



**Improve Connectivity
to Transit Options**



Improve Connectivity to Schools, Parks, Recreation Facilities, & Businesses

A photograph of a concrete sidewalk leading into the distance, flanked by grass. The sidewalk and the surrounding grass are heavily covered with fallen autumn leaves in shades of brown, orange, and yellow. The word "Process" is overlaid in white text on the sidewalk.

Process

1



Meet with a Town Board Member

2



Collect Petition Signatures

3



Present to Town Board

4



Map, Plan & Report

5



Informational Neighborhood Meeting

6



Public Hearing

7



Town Board can vote to create new district

8



If no petition against & State Comptroller approves, district is formed.

9



Apply for grants, set up funding & go out to bid.

Project Criteria

Project requests will be evaluated on the following criteria. These criteria will be used to determine a priority for implementation of the neighborhood requests:

- **Safety**
 - Any potential or demonstrated pedestrian safety hazard
- **Trip Generator**
 - When walking becomes an alternative form of transportation
- **Land Use**
 - Linking residential, commercial and office use
 - Higher density zonings vs lower density zoning
- **Neighborhood Cost Share**
 - What grants are available that the project could qualify for to reduce the overall cost of project for Neighborhood.
- **Construction feasibility**
 - Geographic constraints, Adequate right-of-way and/or easements must exist or be donated to the town.
- **Public Support**
 - The Town Board requires 65% of property owners within the proposed sidewalk district to be in support of the project.

Neighborhood Sidewalk Program Application

Are you and your neighbors interested in building sidewalks on a road in your neighborhood?
Contact the Town Supervisor or a Town Councilor to start an NSP application.

A Neighborhood Group, Homeowners' Association, or an individual may make a request.
Please fill out the form below with the primary contact.

Project Name: _____

Primary Contact Information

First Name: _____ Last Name: _____

Address: _____

Phone: _____ Email: _____

As this project will need Town Board approval, what Board Member are you working with?

Project Location: _____

Please detail the need for a neighborhood sidewalk at this location (ex. Safety concerns, Connects to schools, businesses, villages, approximate length, which side of the road, etc.)

Project Description: _____

Is a petition of Property Owners in the proposed sidewalk district attached to this application? Yes / No

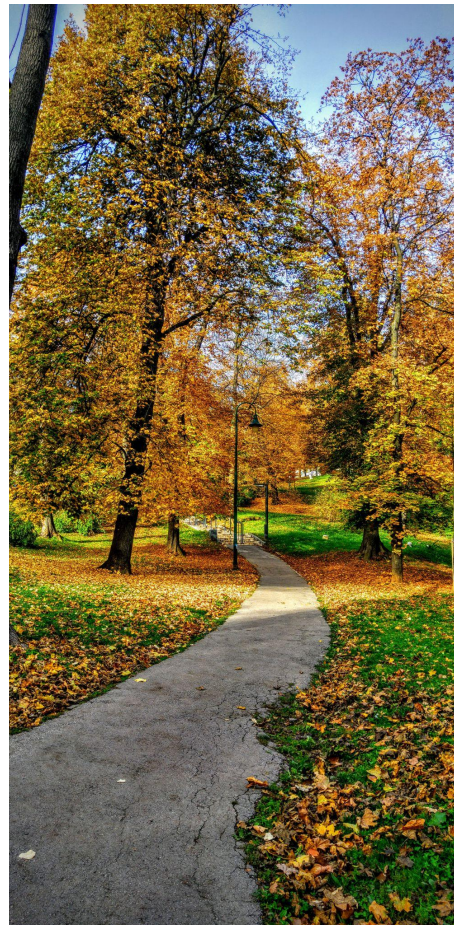
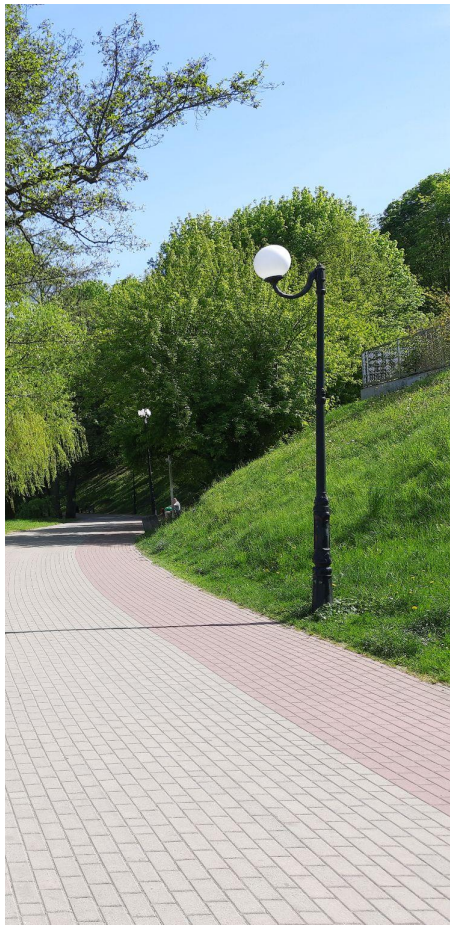
Complete the following non-binding information, if known, or keep blank

Project Estimated Cost: _____ Percent of Grant Funding Requested: _____

Is the project within the existing Town Right of Ways Easements? _____

A Neighborhood Group, Homeowners' Association, or an individual making the request will need to assist the Town in obtaining necessary easements of Right-Of-Ways that are required for the Project.

Submit this form with petition signatures to the Town Clerk's Office.



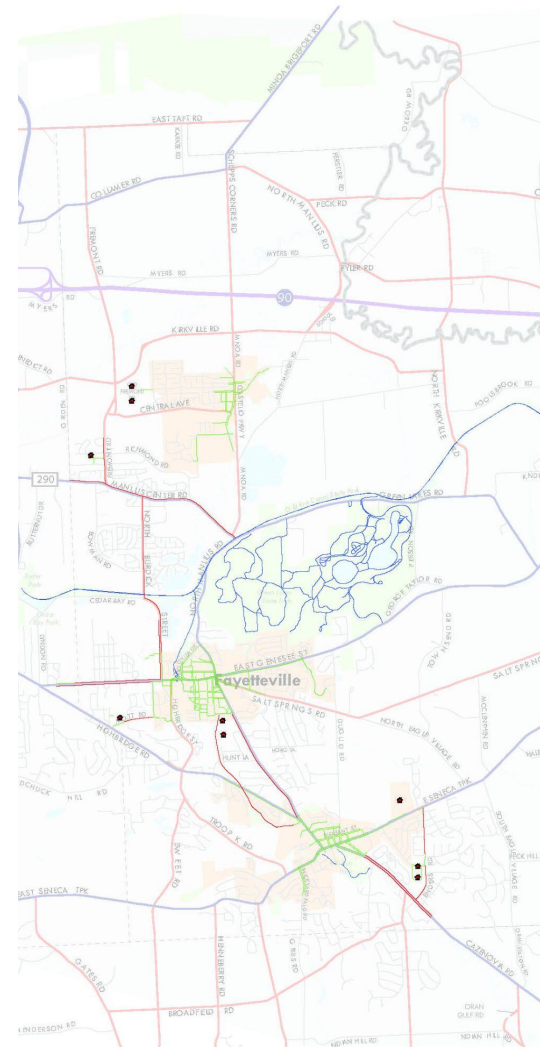


Neighborhood Sidewalk Project Support Petition

To the Town of Manlius, We support sidewalks on _____ requested by _____ and understand the expense of the construction and maintenance of the sidewalk shall be collected from the parcels within the proposed sidewalk district with the goal of applying for ____ percent in grant funding for the project.

Date	Property Owner Signature	Print Full Name	Street Address	Contact Info (optional)
1				
2				
3				
4				
5				
6				
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12				
13				
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15				

Note: A petition to demonstrate support for a Project must be received with at least sixty-five percent (65%) of property owners within the proposed sidewalk district.



Example of Past Grants

NY State Transportation Alternatives Program (TAP)

- Provides up to 80% of total project costs, is made available through the Federal Highway Administration and administered by the New York State Department of Transportation

ARPA

- \$75,000 in ARPA funding will be available through 2026 to cover application fees and engineering costs to explore multiple projects.



FAQs

Who will own and maintain sidewalks?

The Town.

Who will plow the sidewalks?

The Town will arrange for snow removal.

Who pays?

Only residents in the sidewalk special district.

Who decides who is included in the district?

The Town Board would decide who benefits from the project and who would be included.

What if the Town does not own the right of way?

The neighbors will assist the Town in obtaining necessary easements for the project.

Contact

Comments or Questions?

Elaine Denton

edenton@townofmanlius.org

www.townofmanlius.org



IN THE MATTER

Of

**LOCAL LAW 2023 -__ TO AMEND
CHAPTER 155 OF THE TOWN OF
MANLIUS CODE (ZONING) TO CREATE A
NEW SECTION 155-20.1-20.6 THAT WOULD
AUTHORIZE A PLANNED UNIT
DEVELOPMENT (“PUD”) ZONING
DISTRICT IN VARIOUS ZONING
DISTRICTS IN THE TOWN AND SETTING
FORTH RULES AND REGULATIONS FOR
SITE DEVELOPMENT IN THE PUD**

**RESOLUTION FOR
REFERRAL TO THE
PLANNING BOARD AND
SETTING DATE FOR PUBLIC
HEARING**

The **TOWN BOARD OF THE TOWN OF MANLIUS**, in the County of Onondaga, State of New York, met in regular session at the Town Hall in the Town of Manlius, located at 301 Brooklea Drive in the Village of Fayetteville, County of Onondaga, State of New York, and virtually on the platform commonly referred to as Zoom, the Town Facebook page and YouTube on the 22nd of March, 2023, at 6:30 p.m.

The meeting was called to order by John T. Deer, Supervisor, and the following were present, namely:

John T. Deer	Supervisor
Sara Bollinger	Councilor
Elaine Denton	Councilor
Alissa Italiano	Councilor
Katelyn M. Kriesel	Councilor
William Nicholson	Councilor
Heather Allison Waters	Councilor

The following resolution was moved, seconded and adopted:

WHEREAS, the Town Board desires to create a zoning district for parcels of land in the Town that have unique characteristics and development of which can provide housing, mixed-use, retail, commercial, walkability, and sustainability options that are not available in the Town of Manlius;

WHEREAS, the Town is in the process of developing a comprehensive plan that is consistent with the goals set forth above;

WHEREAS, a Local Law has been introduced before the Board, to wit: Local Law No. 2023- ____, amending Chapter 155 of the Town Code entitled “Zoning” as follows:

LOCAL LAW 2023-____, A LOCAL LAW AMENDING CHAPTER 155 ENTITLED “ZONING” TO CREATE A NEW SECTION 155-20.1-20.6 THAT WOULD AUTHORIZE A PLANNED UNIT DEVELOPMENT ZONING DISTRICT

Be it enacted by the Town Board of the Town of Manlius, Onondaga County, New York as follows :

Section 1. Article III of Chapter 155 of the Town Code (District Régulations) shall be amended as follows:

§ 155-20.1 Planned Unit Development

- A. Legislative Intent. A Planned Unit Development (“PUD”) provides flexibility and encourages a variety of land uses and innovative design techniques that otherwise would be restricted by standard use and area regulations contained within the Town of Manlius Zoning Law. A PUD may be placed in the R-5, CA, CB, RM and Industrial Districts at the discretion of the Town Board and pursuant to this Section 155-20.1.
- B. Legislative Purpose. The Town of Manlius, Onondaga County, New York hereby finds and determines that:
 - 1. When coordinated with the comprehensive plan, a PUD can be an effective tool to encourage development in ways that support the community goals and priorities outlined in the Town of Manlius Comprehensive Plan and its Zoning Code.
 - 2. This section provides a process to allow for the approval of a beneficial development plan that would not otherwise be possible due to existing

zoning laws that regulate permissible uses and bulk requirements. A PUD provides flexibility in the regulation of land use development in order to:

- a. Encourage innovation in land use variety and design, in the layout and type of new structures and in their integration with existing structures;
 - b. Enhance efficiency in the use of land, natural resources, energy, community services and utilities;
 - c. Encourage open space preservation and protection of natural resources, historic sites and structures;
 - d. Facilitate the construction of multi-unit housing and improved residential environments;
 - e. Enhance the Town's ability to promote business and employment opportunities;
 - f. Preserve the safety and efficiency of the State, County and Town transportation system within the Town of Manlius;
 - g. Provide for logical and orderly extensions of water, sewer and utility infrastructure; and
 - h. Provide for a unified and logical pattern of development to land areas determined to be appropriate for growth as outlined in the Town of Manlius Comprehensive Plan.
 - i. Develop land that has unique characteristics, including water bodies, steeper slopes, topographic challenges, connectivity to population centers and/or commercial areas and authorize growth to meet goals and policies of the Town of Manlius.
- C. Authority. In addition to any other powers and authority to plan and regulate by zoning, the Town of Manlius hereby enacts requirements for the review of applications to establish a Planned Unit Development District and the establishment and simultaneous mapping of Planned Unit Development Districts pursuant to the provisions of this Section 155-20.1 local law.

§ 155-20.2 Definitions

- A. "Planned Unit Development" ("PUD") means a site upon which residential, commercial, industrial or other land uses or any combination thereof may be authorized in a flexible manner so as to achieve the goals of the Town Comprehensive Plan and the Town Zoning Code.

- B. “Planned Unit Development District” (“PUD District”) means the location where a District Plan has been approved by the Town Board.
- D. “District Plan” means a proposal for a PUD prepared in a manner prescribed by local regulation showing general layout of the proposed project. The plan will establish the allowable uses and design guidelines within the PUD. The District Plan will establish bulk requirements for the district, including, lot sizes, setbacks, height limits, buffers, screening, open space areas, lighting, signage, landscaping, parking and loading, traffic circulation, protection of natural resources, public or private amenities and such other elements as may be required by local regulation.
- E. “District Plan Approval” means the approval with conditions, if any, of the proposed PUD and the simultaneous amendment of the local zoning law or ordinance by the legislative body to create and map a Planned Unit Development District within a land area designated by the Town Board.
- F. “PUD Site Plan” means a plan prepared pursuant to Section 155-28 of the Town of Manlius Zoning Law showing information as is required by local law or regulations.
- G. “PUD Site Plan Approval” means the signing of a final plan by a duly authorized member of the Town Planning Board pursuant to a resolution granting final approval to the plan or after conditions, if any, specified in said resolution granting conditional approval of the plan are completed. Such final approval qualifies the plan for filing in the office of the Town Clerk as provided herein. Final approval shall be decided by the Town Planning Board.

§ 155-20.3 Overview of Process.

- A. An applicant that seeks to establish a PUD District Plan in the Town must submit a PUD District Plan Application to the Town Board. Only persons who can demonstrate legal control over the parcel(s) covered by the proposed PUD district, or their authorized representative(s), may file a PUD District Application. A contract-vendee for a parcel or parcels of land may be considered to have sufficient legal control for purposes of submitting a PUD District Plan Application.
- B. The establishment of a PUD District Plan shall require two steps: (i) approval of the PUD District Plan Application; and (ii) enactment of a local law to adopt the provisions of the PUD District Plan, establish the legal boundaries of the district and to amend the Town Zoning Map.
- C. After a PUD District Plan has been adopted by the Town Board, the applicant must obtain PUD Site Plan Approval for the project from the Town Planning Board.

- D. No permit for the erection of a building or structure or development of the site may be granted until after all necessary approvals under this Article have been issued.
- E. The applicant for a PUD District shall pay and the Town shall be entitled to receive reimbursement for expenses associated with the review of any application submitted pursuant to this Article.

§ 155-20.4 Planned Unit Development District Plan Application Requirements

The following must be submitted as part of an application to establish a PUD District Plan:

- A. PUD District Plan Description. The application must include a description of the proposed PUD District Plan requirements, including the types of land uses, bulk requirements, parking requirements, the regulations of signage, as well as provisions, if any, relating to cluster development, incentives, bonuses, open space, design guidelines and the preservation of historic resources;
- B. PUD District Plan Map. The applicant must provide a map of the PUD District Plan identifying the location of permissible land uses, roads, sidewalks, drainage, landscaped areas, parking, utilities and the total acreage of the proposed PUD District. A PUD District Plan must include an area no smaller than twenty-five (25) contiguous acres. In no instance shall a PUD District be bisected by a State Highway or County Highway. However, an area that includes land divided by internal private roads or roads intended to be dedicated to the Town, may be considered to be contiguous for the purpose of complying with this requirement.
- C. Phasing Plan. The application must include a schedule describing all phases for the completion of buildings, public and private facilities and site improvements for the full buildout of the development and shall clearly indicate all aspects of the phasing of the entire development.
- D. Application Timeline. The PUD District Plan must include a timeline providing deadlines to apply for PUD Site Plan Approval and building permits. Failure to meet the deadlines set forth in the PUD District Plan may result in the automatic revocation of the PUD District Plan Approval, unless extended by the Town Board.
- E. Real Property Rights. The application must include a draft of all covenants, easements and rights of way relating to the site development and / or homeownership, homeowners associations and any lands dedicated to public use within the PUD District Plan.

- F. Environmental Review. The Town Board must comply with the New York State Environmental Quality Review Act (SEQRA) when considering an application for a PUD District Plan. The applicant must provide a completed Part 1 of the Full Environmental Assessment Form. In addition, the applicant will be required to provide the Town with any information deemed necessary by the Town in order to evaluate the potential environmental impacts of a proposed development.
- G. Fee and Escrow. The application shall be accompanied by a fee of \$_____.00. In addition, the Town Board may require that the applicant place into escrow at the time of submission of the application sufficient funds to pay for the Town's use of legal and engineering professionals to evaluate the application.

§ 155-20.5 Procedure.

The Manlius Town Board may approve a proposed PUD District Plan after receiving comments and recommendations from the Town of Manlius Planning Board. The following procedural steps shall be required prior to approval:

- A. Preapplication conference. Before submission of an application for approval of a PUD District Plan, the applicant is encouraged to contact the Code Enforcement Officer to arrange for a meeting with representatives of the Town in order to obtain feedback on the application prior to formal submittal.
- B. Referrals. Upon the receipt of a complete PUD District Plan application, the Town Board shall review it and refer it to the Town Planning Board and the County Planning Board for comment.
- C. Public Hearing(s). The Town Board shall be required to conduct one or more public hearing(s) prior to adopting a PUD District Plan. Notice of each public hearing shall be published in a newspaper of general circulation at least ten (10) calendar days in advance of the hearing. The application shall be made available for public review at least ten (10) calendar days prior to said public hearing at the office of the Town Clerk.
- D. Review and Comment. The Town Planning Board must provide comments to the Town Board no later than forty-five (45) days after having the application referred to them. If the Planning Board fails to provide comments prior to the deadline, the Town Board may proceed without receiving comments from the Planning Board.
- E. Town Board Action. Following completion of the referral and comment process, at least one public hearing and satisfaction of the Town Board's obligations pursuant to SEQRA, the Town Board may vote to approve or deny the PUD District Plan Application. In the event that the application is approved, the Town

Board must also adopt a local law to amend the Town Code to include the District Plan and to amend the zoning map.

- F. PUD Site Plan Approval. Following approval of a PUD District Plan, the applicant must submit an application for PUD Site Plan Approval to the Town Planning Board and follow procedure for Site Plan Review as outlined in section 155-28 of the Town of Manlius Code.

§ 155-20.6 PUD District Plan Review Criteria

The Town Board shall weigh the following factors when considering whether to approve an application to create a PUD District Plan:

- A. Whether the proposed plan will result in the efficient use of land, natural resources, energy sustainability, community services, infrastructure and utilities.
- B. Whether the proposed plan is consistent with the Comprehensive Plan and the orderly development of the Town.
- C. Whether the proposed plan will negatively impact natural resources, the environment or historic resources.
- D. Whether the proposed plan will result in new employment opportunities for Town residents and investment in the community in the form of economic development.
- E. Whether the proposed plan will improve the availability of affordable housing in the Town.
- F. Whether the proposed plan will have a negative impact on existing residential uses of land in the Town in terms of traffic, noise, dust, odors, glare, threats to human health or other nuisances.
- G. Whether the proposed plan has adequately addressed issues related to the provision of sewer, water, drainage, electricity, parking, public safety, fire safety and other infrastructure issues.
- H. Whether the proposed plan will result in the loss of prime farmland or will interfere with existing farm businesses.
- I. Whether the proposed plan is consistent with the existing character of the neighborhood.

Section 2. This law shall take effect upon filing with the New York State Department of State.

WHEREAS, the Town Board desires to hear from the public on the Application and refer Local Law 2023-___ and to the Planning Board for their review and comment;

NOW, THEREFORE, BE IT RESOLVED, that the Town Board of the Town of Manlius, County of Onondaga, State of New York, shall hold a Public Hearing on said proposed Local Law 2023-___, and that such Hearing shall be held in persona and virtually on the Internet platform commonly referred to as ZOOM, directions for attendance which will be on the Town's Website and such hearing shall take place on the ___th day of _____ 2023 at approximately 6:35 p.m. and be it further

RESOLVED, that the Town Clerk shall give notice of such Public Hearing by the publication of a notice in at least one newspaper circulated in the Town, specifying the time when and the place where such Public Hearing will be held and the instructions by which the public can access the virtual meeting, and in general terms, describing the proposed Local Law. Such notice shall be published once at least five (5) days prior to the Public Hearing, and be it further

RESOLVED, that the Town Clerk shall refer Local Law 2023-___ to the Planning Board for their review and recommendation.

I, ALLISON WEBER, Town Clerk of the Town of Manlius, **DO HEREBY CERTIFY** that the preceding Resolution was duly adopted by the Town Board of the Town of Manlius at a regular meeting of the Board duly called and held on the 22nd day of March 2023; that said Resolution was entered in the minutes of said meeting; that I have compared the foregoing copy with the original thereof now on file in my office; and that the same is a true and correct transcript of said Resolution and of the whole thereof.

I FURTHER CERTIFY that all members of said Board had due notice of said meeting.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the Town of Manlius, this 22nd day of March, 2023.

DATED: March 22, 2023
Fayetteville, New York

Allison Weber
Town Clerk of the Town of Manlius
Onondaga County, New York

MINUTES
TOWN BOARD
March 8, 2023

The Town of Manlius Town Board held a hybrid meeting with in-person attendees and virtual attendees. The meeting was live streamed on the Town Facebook page and the Town YouTube Channel. The recording of the meeting can be viewed here;
<https://www.youtube.com/channel/UC3pS9-uTiX4l7aEgciGEVSA>

Supervisor Deer presided, and the following Board members were present:

	Sara Bollinger, Councilor
	Elaine Denton, Councilor
	Heather Waters, Councilor
	Alissa Italiano, Councilor
	William Nicholson, Councilor
	John Deer, Supervisor
Absent	Katelyn M. Kriesel, Councilor

The following Town Officers were present:

Timothy Frateschi, Attorney for the Town. Ann Oot, Town Manager. Allison Weber, Town Clerk.

The following Town Officers Attending Virtually: Michael Crowell, Police Chief. Tom Poitras, Code Officer.

1. Attendees

In-Person Meeting Attendees: Brenda & Peter Keith Slack, Fayetteville. Craig Dudczak, Fayetteville. Tom Bassett, Manlius. Therese Reagan, Manlius. Tom Kinsella, Fayetteville. Simon Solomon, CNY Land Trust. Courtney Ludovico, Fayetteville. Pat Beach, Fayetteville. Casey Cleary-Hammerstedt, Fayetteville.

Virtual Meeting Attendees: Warren Linhart, Cheryl Matt.

2. The Pledge of Allegiance

Supervisor Deer called the meeting to order at 6:30 PM. Councilor Bollinger led the Pledge of Allegiance. Supervisor Deer welcomed everyone and thanked all for attending.

3. 6:32 PM International Women's Day Acknowledgement

Councilor Waters read aloud a statement acknowledging International Women's Day, discussed the gender pay gap in the United States and the actions taken by the Town of Manlius to address the issue.

4. Open Podium

Therese Regan – 4881 Northgate Dr. discussed the New York State Disability Tax Exemption for the elderly and disabled.

5. 6:36 PM CNY Land Trust – Public Assembly Permit Application

Simon Solomon, Executive Director of the Central New York Land Trust gave a brief presentation on the public assembly permit application submitted by CNY Land Trust for a fundraising dinner event at the Woodchuck Hill property. The date will be Saturday August 12, 2023, from 5:00 PM to 10:00 PM and there will be live music.

The Town Board discussed the event with the applicant and asked questions. Town Attorney Frateschi will prepare a resolution for the funding raising event for the next meeting on March 22, 2023.

6. 6:40 PM Kinsella Quarry Zone Change Application – NYS Route 5 – 11.8 Acres – RA to NRRD – Referral to Planning Board

Councilor Bollinger read a prepared statement concerning the request.

Councilor Bollinger's Statement

I believe it is the responsibility of the Town Board to consider the greater implications of decisions beyond the needs and preferences of both the zone change applicant and the contiguous neighbors. Sometimes the implications of zoning decisions are relatively minor, and sometimes they have significant impact.

This zone change request has regional impact. New York State, other municipalities and countless contractors depend on TH Kinsella Quarry for aggregate, stone and gravel. Moreover, the quarry accepts leaves, logs, fill, millings, compost and other debris that would otherwise be a disposal challenge and additional cost for local municipalities.

We are all aware that Onondaga County is planning for an increase in construction of commercial and residential properties that will include the expansion of utility infrastructure. This construction will require aggregate, stone and gravel.

The mine within the current boundaries of the Natural Resource Removal District between Route 5 and Salt Springs Road is almost fully depleted.

The proposed zone change is modest, given the scale of the entire quarry, and is completely within the existing berm screening it from neighboring properties. The proposed zone change does not include any of the 'buffer land' nor any of the 'excluded area' described in the 2003 Settlement Agreement with the Changing Seasons Homeowners Association.

Councilor Denton read a prepared statement on the history of the Kinsella Quarry and asked questions about the application. Councilor Denton expressed concern regarding sections of the application that had missing or incomplete information.

Councilor Denton's Statement

Since the town was founded, the town has been mined for its resources. You see the history of this as you drive around town with pretty but dangerous ponds that were once quarries and land that has sat empty for decades due to the expensive costs of redeveloping the land after being deprived of its resources.

Town residents have protested against this quarry since the town first issued Kinsella's permit in 1982. Each time Kinsella has come back to the Town board for more. In 1994, Kinsella applied for another 78 acres, the Town Board only approved 40 as they did not have the supermajority to approve all 78 acres since once again town residents submitted a petition opposed to the proposal. Town residents sued the Town & Kinsella and the residents won to reject the expansion in 1990's with the court concluding that Kinsella was bound by the terms of the covenant as set forth in the 1982 permit.

Yet Kinsella came back again in 2001 for 28.7 acres. This time residents challenged, and a settlement was agreed to for only the 28.7 acres. Twenty years later they are back again. Asking for 11.8 acres which if you add this up seems to equal 40 acres which sounds very familiar to what was rejected by the courts back in 1996.

This will not stop. This business is non-renewable. The resources that were made millions of years ago will not come back. The Town has been mined for its resources for over 200 years. Our population has grown over 18% since the 1980 when Kinsella's permit was first approved, and I believe our population will continue to grow. It is time the Town took the residents' side in this matter. Plus, there is the legal precedent that we must consider.

Other issues as well to consider are the permit has reference to a quarry committee that is no longer active. Our NRRD zones need to be updated to protect our residents better. All of this is in progress, our comprehensive plan is coming out soon to gather public comments. Once adopted we plan to rewrite our zoning laws. Although this proposed zone change was submitted last year, we have been studying quarries and have recommendations from the quarry study group to implement.

Mr. Kinsella stated that there has been an amended application submitted that has more information.

The Town Board discussed their concerns with the application and asked questions of the applicant.

Attorney Frateschi stated the Board could send the application to the Planning Board and Engineer for their review.

Councilor Bollinger made a motion, seconded by Councilor Italiano, to refer the zone change application made by Thomas Kinsella for the expansion of the 12+ acres of the existing Quarry on Route 5 to the Town Planning Board and the Onondaga County Planning Board as outlined in the resolution prepared by the Attorney for the Town

Ayes: Supervisor Deer, Councilor Bollinger, Councilor Italiano

Nays: Councilor Nicholson, Councilor Denton, Councilor Waters

Vote: 3-3. Motion Fails.

There was not enough support within the Town Board to move the application to the next step as the application was presented. Supervisor Deer stated that the applicant could contact the Town Board members to learn what would be needed to move the application forward.

7. 7:07 PM Steering Committee Public Hearing – Draft Comprehensive Plan – Set Date

Councilor Waters stated there will be a community open house starting at 5:00 PM. This public hearing will be before the Comprehensive Planning Steering Committee. There will be subsequent public hearings before the Town Board.

Councilor Waters made a motion, seconded by Councilor Bollinger, to set a date for the Town of Manlius Comprehensive Planning Steering Committee to hold a public hearing on March 28th at 6:30 PM at Town Hall to hear public comments of the draft comprehensive plan.

Ayes: Supervisor Deer, Councilor Bollinger, Councilor Nicholson, Councilor Denton, Councilor Italiano, Councilor Waters

Nays: 0

All in Favor.

Motion Carries.

8. 7:10 PM Police Department – DASNY – Community Resiliency, Economic Sustainability, and Technology (CREST) Grant.

Councilor Bollinger thanked Senator Mannion for the \$50,000 grant awarded to the Town of Manlius Police Department for the purchase of an electric vehicle.

Councilor Bollinger made a motion, seconded by Councilor Waters, to accept the \$50,000 SAM grant awarded through Senator Mannion's office for the purchase of an electric vehicle and equipment for the police department.

Ayes: Supervisor Deer, Councilor Bollinger, Councilor Nicholson, Councilor Denton, Councilor Italiano, Councilor Waters

Nays: 0

All in Favor.

Motion Carries.

9. 7:12 PM Request for Surplus – Town of Manlius Police Department

Councilor Bollinger made a motion, seconded by Councilor Waters, to declare 13 Model X-26P Tasers & Accessories surplus property.

Ayes: Supervisor Deer, Councilor Bollinger, Councilor Nicholson, Councilor Denton, Councilor Italiano, Councilor Waters

Nays: 0

All in Favor.

Motion Carries.

10. 7:13 PM CNY Pomeroy Appraisers Inc. – Approve Fee Proposal and Assignment Agreement – Potential Town Hall Property – N. Burdick St.

Councilor Bollinger made a motion, seconded by Councilor Nicholson, to approve the fee proposal and assignment agreement from CNY Pomeroy Appraisers Inc. at a rate of \$3,400 to prepare an appraisal for the potential town hall property located on N. Burdick St.

Ayes: Supervisor Deer, Councilor Bollinger, Councilor Nicholson, Councilor Denton, Councilor Italiano, Councilor Waters

Nays: 0

All in Favor.

Motion Carries.

11. 7:14 PM Councilor Nicholson – AOT Annual Meeting & Training

Councilor Nicholson stated that he and Councilor Bollinger attended the Annual Association of Towns Training and Conference. Councilor Nicholson discussed the training and thanked the Town for the opportunity.

12. 7:16PM Councilor Waters – Meeting with Senator Mannion & Assemblyman Stirpe

Councilor Waters stated that she and other town representatives met with Senator John Mannion and New York State Assembly Member Al Stirpe while those representatives were actively working on the State Budget. Councilor Waters spoke at length about the various topics that were discussed.

13. 7:21 PM Meeting with Syracuse Onondaga Planning Agency Regarding Possible Planned Urban Development for Twin Ponds Housing.

Councilor Bollinger spoke about a recent meeting with the Syracuse County Planning Agency regarding the possibility of developing a Planned Urban Development (PUD) on North Burdick St.

14. 7:23 PM Supervisors Report – December

Councilor Bollinger made a motion, seconded by Councilor Denton, to approve the Supervisor's report for December 2022.

Ayes: Supervisor Deer, Councilor Bollinger, Councilor Nicholson, Councilor Denton, Councilor Italiano, Councilor Waters

Nays: 0

All in Favor.

Motion Carries.

15. 7:24 PM Approval of Minutes – February 22, 2023

Councilor Italiano made a motion, seconded by Councilor Denton, to approve the minutes of February 22, 2023, as submitted by Town Clerk Weber.

Ayes: Supervisor Deer, Councilor Bollinger, Councilor Nicholson, Councilor Denton, Councilor Italiano, Councilor Waters

Nays: 0

All in Favor.

Motion Carries.

16. 7:24 PM Approval of Abstract # 5

Councilor Bollinger made a motion, seconded by Councilor Nicholson to approve Abstract # 5 in the amount of \$ 308,976.31 as submitted by Town Clerk Weber.

Fund Summary		
Abstract # 5 - 2023		
CODE	FUND	TOTALS
A	General Fund Townwide	\$255,721.30
B	General Fund Town	\$6,716.61
DA	Highway Fund Townwide	\$37,665.12
DB	Highway Fund Part Town	\$571.48
SL1	Overhead Lighting District	\$1,755.00
SL2	Underground Lighting	\$2,421.55
SL3	Entry Lighting	\$117.61
SL4	Garden Park Lighting	\$699.04
SL5	Ratnour Bridge Lighting	\$2,665.73
SR1	Trash	\$185.87
SR2	Brush	\$185.87

Ayes: Supervisor Deer, Councilor Bollinger, Councilor Nicholson, Councilor Denton, Councilor Italiano, Councilor Waters

Nays: 0

All in Favor.

Motion Carries.

17. 7:25 PM Adjournment

By motion made by Councilor Waters and seconded by Councilor Italiano, the Board voted unanimously to suspend the public portion of the meeting at 7:25 PM to enter into Executive Session to discuss the employment history of a particular person and/or employee of the Town of Manlius.

Ayes: Supervisor Deer, Councilor Nicholson, Councilor Bollinger, Councilor Denton, Councilor Italiano, Councilor Waters

Nays: 0

All in Favor.

Motion Carries.

Respectfully Submitted by:

Allison A. Weber
Town Clerk

EXECUTIVE SESSION MEETING MINUTES

**Executive Session
March 8, 2023**

Councilor Italiano made a motion, seconded by Councilor Waters, to adjourn executive session at 8:21PM.

Ayes: Supervisor Deer, Councilor Nicholson, Councilor Bollinger, Councilor Denton, Councilor Italiano, Councilor Waters.

Nayes: 0

All in Favor.

Motion Carries.

There being no further business to come before the Board, upon motion duly made by Councilor Waters and seconded by Councilor Italiano the Board voted unanimously to adjourn regular session at 8:21 PM.

Ayes: Supervisor Deer, Councilor Nicholson, Councilor Bollinger, Councilor Denton, Councilor Italiano, Councilor Waters

Nayes: 0

All in Favor.

Motion Carries.

Submitted by:

Ann Oot
Town Manager

DRAFT

** G/L ACCOUNT TOTALS **

YEAR	ACCOUNT	NAME	AMOUNT	=====LINE ITEM=====			=====GROUP BUDGET=====		
				ANNUAL BUDGET	BUDGET AVAILABLE	OVER BUDG	ANNUAL BUDGET	BUDGET AVAILABLE	OVER BUDG
2023	A00-2.690	Overpayments and Clearing	7,095.00						
	A00-5.1420.481	Attorney - Litigation	3,167.00	25,000	13,425.00		116,000	91,878.75	
	A00-5.1420.482	Attorney - Employment Matt	6,907.50	25,000	18,092.50		116,000	88,138.25	
	A00-5.1420.483	Attorney - Town Board	5,500.00	66,000	47,970.00		116,000	89,545.75	
	A00-5.1440.400	Engineer - Contractual	10,490.00	325,000	309,520.00		343,000	327,094.00	
	A00-5.1620.405	Buildings - Information Te	16,260.73	389,763	340,421.79		477,873	411,525.64	
	A00-5.1620.421	Buildings - Phone	1,127.06	14,000	10,617.27		477,873	426,659.31	
	A00-5.1620.422	Buildings - Water	244.15	950	705.85		477,873	427,542.22	
	A00-5.1620.423	Buildings - Security Servi	66.95	900	699.15		477,873	427,719.42	
	A00-5.1620.424	Buildings - Internet	119.00	2,500	1,940.86		477,873	427,667.37	
	A00-5.1620.430	Buildings - Cleaning	126.25	16,560	12,700.97		477,873	427,660.12	
	A00-5.1620.485	Buildings - Snow Removal	720.00	2,500	340.00		477,873	427,066.37	
	A00-5.1640.410	Central Garage - Gasoline	5,982.49	100,000	81,364.48		104,500	84,919.56	
	A00-5.5132.422	Garage - Water	626.10	1,850	1,223.90		409,431	394,639.29	
	A00-5.9045.800	Life Insurance	437.00	5,000	3,277.61		5,000	3,277.61	
	A00-5.9055.800	Disability Insurance	494.87	5,800	5,755.04		5,800	5,755.04	
	A00-5.9061.800	Health Insurance Opt-Out	1,450.00	35,000	26,930.45		35,000	26,930.45	
	B00-5.3620.400	P & D - Contractual	2,459.00	0	16,544.62-	Y	57,550	26,137.54	
	B00-5.3620.410	P & D - Engineer	805.50	30,000	29,194.50		57,550	27,791.04	
	B00-5.3620.421	P & D - Phone	209.47	1,500	1,147.59		57,550	28,387.07	
	B00-5.8010.450	Zoning - Attorney	765.00	4,000	2,674.00		5,650	4,035.25	
	B00-5.8020.410	Planning - Engineer	1,459.26	15,000	13,540.74		37,020	33,444.16	
	B00-5.8020.450	Planning - Attorney	1,462.00	20,000	16,751.30		37,020	33,441.42	
	B00-5.9055.800	P & D - Disability Insuran	20.91	250	187.76		250	187.76	
	DA0-5.9055.800	Disability Insurance	181.22	1,100	741.82		1,100	741.82	
	SR1-5.8160.400	Refuse - Contractual	205,581.50	2,472,726	1855,981.50		2,472,726	1,855,981.50	
	SR2-5.8160.400	Refuse - Contractual	25,187.50	302,437	226,875.00		302,437	226,875.00	
	SW2-5.8340.400	Trans/Dist - Contractual	29,359.18	0	29,359.18-	Y	0	29,359.18-	Y
	TA2-2.851	Engineering Deposits	3,669.50						
	W80-5.8340.400	Trans/Dist - Contractual	220.96	0	220.96-	Y	0	220.96-	Y
	W90-5.8340.400	Trans/Dist - Contractual	38.05	0	38.05-	Y	0	38.05-	Y
		** 2023 YEAR TOTALS	332,233.15						

** G/L ACCOUNT TOTALS **

YEAR	ACCOUNT	NAME	AMOUNT	=====LINE ITEM=====			=====GROUP BUDGET=====		
				ANNUAL BUDGET	BUDGET AVAILABLE BUDG	OVER	ANNUAL BUDGET	BUDGET AVAILABLE BUDG	OVER
2023-2024	A00-2.700	Rec Dept Clearing Acct	1,639.30						
	A00-5.1010.400	Town Board - Contractual	23,314.00	22,500	2,265.93-	Y	28,000	1,467.15	
	A00-5.1110.401	Justices - Office Supplies	3.78	2,800	2,121.17		9,903	9,324.17	
	A00-5.1410.405	Town Clerk - Information T	324.45	2,700	2,375.55		11,516	12,208.72	
	A00-5.1410.408	Town Clerk - Printing/Ads	86.89	1,200	620.77		11,516	12,208.72	
	A00-5.1620.400	Buildings - Contractual	13.26	6,500	3,091.02		477,873	427,786.37	
	A00-5.1620.405	Buildings - Information Te	3,384.01	389,763	356,682.52		477,873	427,786.37	
	A00-5.1670.401	Central Printing - Office	1,015.76	18,500	15,115.48		64,100	49,089.75	
	A00-5.3120.400	Police - Contractual	3,493.56	46,781	48,139.37		669,227	684,611.81	
	A00-5.3120.401	Police - Office Supplies	295.85	15,285	16,317.38		669,227	684,611.81	
	A00-5.3120.404	Police - Books/Publication	502.58	8,372	7,170.24		669,227	684,611.81	
	A00-5.3120.412	Police - Vehicle Repair	548.33	119,236	140,448.27		669,227	684,611.81	
	A00-5.3120.421	Police - Phone	209.52	31,820	29,750.78		669,227	684,611.81	
	A00-5.3120.446	Police - Maintenance Contr	2,400.90	63,651	45,775.82		669,227	684,611.81	
	A00-5.3120.448	Police - Uniforms & Cleani	542.68	68,879	73,604.95		669,227	684,611.81	
	A00-5.5132.405	Garage - Information Techn	119.99	7,645	7,835.01		409,431	395,265.39	
	A00-5.5132.421	Garage - Phone	119.97	0	240.84-	Y	409,431	395,265.39	
	A00-5.5132.425	Garage - Garage/Bldg Maint	1,103.51	295,500	288,824.70		409,431	395,265.39	
	A00-5.5132.426	Garage - Dumpster	481.89	6,136	4,690.33		409,431	395,265.39	
	CM1-5.3120.494	Defibrillators - Contractu	500.00	0	0.00		0	0.00	
	CM4-5.1110.400	Justices - Contractual	149.99	0	236.41-	Y	0	236.41- Y	
	DAO-5.5130.411	Machinery - Vehicle Expens	10,661.98	140,000	121,570.05		231,591	211,385.22	
	DAO-5.5130.447	Machinery - Shop Supply/St	198.12	10,200	5,241.96		231,591	211,385.22	
	DAO-5.5130.473	Machinery - Shop Tools	146.61	7,000	6,925.16		231,591	211,385.22	
	DAO-5.5142.430	Snow Removal - Cleaning Su	59.27	5,500	5,105.42		744,920	798,252.26	
	DAO-5.5142.447	Snow Removal - Shop Suppli	4,249.00	37,891	31,503.46		744,920	798,252.26	
	DAO-5.5142.448	Snow Removal - Uniforms/CI	176.44	15,000	12,491.54		744,920	798,252.26	
	DAO-5.5142.470	Snow Removal - Materials	96,485.22	480,430	494,674.57		744,920	798,252.26	
	DAO-5.5142.471	Snow Removal - Repairs	2,550.00	38,194	37,581.68		744,920	798,252.26	
**	2023-2024 YEAR TOTALS	**	154,776.86						

MINUTES
TOWN BOARD
March 16, 2023

The Town of Manlius Town Board held a hybrid meeting with in-person attendees and virtual attendees. The meeting was live streamed on the Town Facebook page and the Town YouTube Channel. The recording of the meeting can be viewed here;
<https://www.youtube.com/channel/UC3pS9-uTiX4l7aEgciGEVSA>

Supervisor Deer presided, and the following Board members were present:

	Elaine Denton, Councilor
	Katelyn M. Kriesel, Councilor
	Heather Waters, Councilor
	Alissa Italiano, Councilor
	William Nicholson, Councilor
	John Deer, Supervisor
Absent	Sara Bollinger, Councilor

The following Town Officers were present:

Karlee Bolanos, Attorney for the Town. Ann Oot, Town Manager. Allison Weber, Town Clerk.

The following Town Officers Attending Virtually: None

1. Attendees

In-Person Meeting Attendees: Representatives from Channel 9 News.

Virtual Meeting Attendees: Warren Linhart, David Nueman.

2. The Pledge of Allegiance

Supervisor Deer called the meeting to order at 5:30 PM. Councilor Nicholson led the Pledge of Allegiance.

3. 5:34 PM Executive Session

Councilor Waters made a motion, seconded by Councilor Nicholson, to enter into executive session to discuss the medical, financial, credit or employment history of a particular person or corporation, or matters leading to the appointment, employment, promotion, demotion, discipline, suspension, dismissal or removal of a particular person or corporation.

Ayes: Supervisor Deer, Councilor Nicholson, Councilor Denton, Councilor Italiano, Councilor Waters, Councilor Kriesel.

Nays: 0

All in Favor.

Motion Carries.

Submitted by:

Allison Weber
Town Clerk

EXECUTIVE SESSION MEETING MINUTES

**Executive Session
March 16, 2023**

Councilor Italiano made a motion, seconded by Councilor Nicholson, to adjourn executive session at 5:52 PM.

Ayes: Supervisor Deer, Councilor Nicholson, Councilor Denton, Councilor Italiano, Councilor Waters, Councilor Kriesel.

Nayes: 0 All in Favor. Motion Carries.

Supervisor Deer stated that the Town Board reviewed an agreement in executive session between the Manlius Town Board and Police Chief Michael Crowell regarding his resignation.

Councilor Waters made a motion, seconded by Councilor Nicholson, to authorize Supervisor John Deer to sign the Separation/ Resignation agreement between the Town of Manlius and Police Chief Michael Crowell.

Ayes: Supervisor Deer, Councilor Nicholson, Councilor Denton, Councilor Italiano, Councilor Waters, Councilor Kriesel.

Nayes: 0 All in Favor. Motion Carries.

Town Supervisor Deer read aloud a statement from the Manlius Town Board regarding Police Chief Michael Crowell's resignation.

After recent discussions between the Town Board and Chief of Police, we jointly announce the departure of Chief Michael J. Crowell. He has served the residents of Manlius for nearly 30 years, first as an officer and, since 2017, as chief of the police department. Chief Crowell leaves behind a nationally accredited department that is committed to public safety. We thank him for his many years of excellent public service and wish him well in his future endeavors.

The Town of Manlius Police Department senior police captain will be assuming the duties and responsibilities of the Chief of Police until the Town of Manlius has appointed an interim police chief. The Town Board is confident in our command staff to lead TMPD and continue providing outstanding service to Town of Manlius residents. The Board is currently in discussions to appoint an interim Chief and has plans to announce next steps shortly.

There being no further business to come before the Board, upon motion duly made by Councilor Denton and seconded by Councilor Italiano the Board voted unanimously to adjourn regular session at 5:54 PM.

Ayes: Supervisor Deer, Councilor Nicholson, Councilor Bollinger, Councilor Denton, Councilor Italiano, Councilor Waters, Councilor Kriesel.

Nays: 0

All in Favor.

Motion Carries.

Submitted by:

Allison Weber
Town Clerk

DRAFT

MINUTES
TOWN BOARD
March 22, 2023

The Town of Manlius Town Board held a hybrid meeting with in-person attendees and virtual attendees. The meeting was live streamed on the Town Facebook page and the Town YouTube Channel. The recording of the meeting can be viewed here;

<https://www.youtube.com/channel/UC3pS9-uTiX4l7aEgciGEVSA>

Supervisor Deer presided, and the following Board members were present:

Sara Bollinger, Councilor
Elaine Denton, Councilor
Heather Waters, Councilor
Alissa Italiano, Councilor
William Nicholson, Councilor
Katelyn M. Kriesel, Councilor

The following Town Officers were present:

Timothy Frateschi, Attorney for the Town. Ann Oot, Town Manager. Allison Weber, Town Clerk. Kayandra Blythe, Deputy Town Manager. Thomas Poitras, Code Enforcement Officer. Robert Cushing, Highway Superintendent. Jason Cassalia, Interim Police Chief.

The following Town Officers Attending Virtually: None

1. Attendees

In-Person Meeting Attendees: Grant DeBruin, Fayetteville. Sara Cittadino, Fayetteville. Tim Kelly, Fayetteville. Arnold & Judith Poltenson, Manlius. Mary Teske, Fayetteville. Cheryl Matt, Fayetteville. Mark Matt, Fayetteville. Brian Ackerman, Cazenovia. Laura Cassalia, Manlius.

Virtual Meeting Attendees: Joel Bianchi, MJ Engineering. Karen Ayoub. Charlie Breuer. David Neuman. Robin Tody.

2. The Pledge of Allegiance

Supervisor Deer called the meeting to order at 6:30 PM. Councilor Bollinger led the Pledge of Allegiance. Supervisor Deer welcomed everyone and thanked all for attending.

3. 6:31 PM Appointment of Interim Police Chief

Councilor Waters made a motion, seconded by Councilor Nicholson, to authorize the Supervisor to sign the Interim Police Chief Agreement between Jason Cassalia and the Town of Manlius as presented to the Town Board.

Ayes: Supervisor Deer, Councilor Bollinger, Councilor Nicholson, Councilor Denton, Councilor Italiano, Councilor Waters, Councilor Kriesel

Nays: 0

All in Favor.

Motion Carries.

Councilor Waters made a motion, seconded by Councilor Nicholson, to appoint Jason Cassalia as the Interim Police Chief of the Town of Manlius Police Department as set forth in the Interim Police Chief Agreement.

Ayes: Supervisor Deer, Councilor Bollinger, Councilor Nicholson, Councilor Denton, Councilor Italiano, Councilor Waters, Councilor Kriesel

Nays: 0

All in Favor.

Motion Carries.

Town Clerk Weber administered the Oath of Office to Jason Cassalia.

4. 6:35 PM Open Podium

Grant DeBruin, Fayetteville spoke about his concerns regarding the resignation of former Police Chief. Mr. DeBruin challenged the Town Board to explain the resignation of the Chief of Police.

* A copy of Mr. DeBruin's comments are on file in the Town Clerk's Office*

Timothy Kelly, Fayetteville, asked if the 1984 Intermunicipal Agreement is in place? Mr. Kelly asked why the Mayors were not involved in the process? Mr. Kelly asked if the Mayors and the Police Committee would be involved in the hiring process? The Town Board discussed their position on the 1984 Intermunicipal Agreement for the Town of Manlius Police Department and the hiring process for the new Chief of Police.

Arnold Poltenson, Manlius, spoke about his concerns regarding the resignation of the former Chief of Police. Mr. Poltenson stated that the Town Board should have more transparency and the lack of transparency leaves a cloud over the former Chief of Police.

* A copy of Mr. Poltenson's comments are on file in the Town Clerk's Office*

Dave Barnwell, Manlius, asked if there has been any more discussion on the intermunicipal agreement for police services in Onondaga County? The Town Board discussed that we provide mutual aid by following NYS GM Law 209-m and Chapter 23 Mutual Aid of our town law which authorizes the Chief of Police of the Town of Manlius the authority to approve mutual aid requests and the government who is requesting mutual aid assumes liability for damages, salaries and other expenses.

Karen Ayoub, Manlius, asked how the intermunicipal agreement for mutual aid for police services differ from the mutual aid for the fire departments and EMT services? The Town Board discussed their position on the mutual aid agreement.

Ms. Ayoub asked the Town Board about their comments regarding the change in the job description for the Chief of Police. Ms. Ayoub asked if the public would have a chance to review and have discussion regarding the new job description of the Chief of Police? The Town Board discussed the proposed process for drafting the Chief of Police job description.

Comment from Dawn C – “With the resignation of the chief what is the "new direction" the Board is planning?” The Town Board discussed the assessment process for the Chief of Police job description and the selection process for the Chief of Police.

5. 6:52 PM Nuisance Property Report – 607 Washington Blvd. – Code Enforcement Officer Report

Code Enforcement Officer Tom Poitras presented his report on the Unsafe Building / Structure located at 607 Washington Boulevard, Fayetteville.

The Town Board discussed the nuisance property and the procedure.

Councilor Kriesel made a motion, seconded by Councilor Nicholson, to authorize the Town Clerk and the Code Enforcement Officer to issue the notice of violation and the order attached to the resolution as prepared by the Attorney for the Town.

Ayes: Supervisor Deer, Councilor Bollinger, Councilor Nicholson, Councilor Denton, Councilor Italiano, Councilor Waters, Councilor Kriesel

Nays: 0

All in Favor.

Motion Carries.

6. 6:59 PM Sustainable Manlius – Earthfest Presentation & Expenditure Approval

Councilor Kriesel gave a presentation on the upcoming Earthfest event. EarthFest will be held at Fayetteville's Canal Landing Park on April 29, 2023 from 10AM to 3PM.

Councilor Bollinger made a motion, seconded by Councilor Denton, to approve the list of expenditures from the Sustainable Manlius Publicity Fund as presented by Councilor Kriesel.

EarthFest 2023 Budget

- o Entertainment - Music, \$1,100.00
- o Marketing -Digital and Print Advertising - \$1,100.00
- o Marketing- Printed Flyers - \$200.00
- o Marketing - Radio - \$3,700.00
- o Marketing – Signs - \$650.00
- o Marketing - Wooden Tokens - \$200.00
- o Operations - Bus Driver - \$150.00
- o Operations - Children's Activities - \$250.00
- o Operations - Food Truck - \$900.00
- o Operations - Porta-potties - rental \$750.00
- o Operations – Prizes - \$250.00
- o Operations - Tables and Chairs - \$200.00
- o Supplies - Earth Ball - \$425.00
- o Supplies - Children's Activities - \$250.00
- o Supplies – General - \$250.00
- o Supplies – Volunteer - \$625.00

Total: \$11,000.00

Ayes: Supervisor Deer, Councilor Bollinger, Councilor Nicholson, Councilor Denton, Councilor Italiano, Councilor Waters, Councilor Kriesel

Nays: 0

All in Favor.

Motion Carries.

7. 7:09 PM Muirfield Drainage Assessment

Joel Bianchi, M. J. Engineering, gave a presentation on the proposed drainage improvements to Muirfield Drive. The Town Board was presented with four options to rehabilitate / expand the Muirfield Retention System.

Option 1 – Replace vault in kind services. Cost \$144,000

Option 2 – Replace / Enlarge Vault – Cost \$240,000

Option 3 – Redirect Inflow and provide Stilling Basin. Cost \$48,000 = Option 1 or 2

Option 4- Expansion of Vault or Open Basin. Cost \$332,000

The Town Board tabled the matter to speak with residents and potentially bid for construction in the Spring of 2024.

8. 7:31 PM Set A Date – Town Board Work Session – Comprehensive Planning

Councilor Kriesel made a motion, seconded by Councilor Nicholson, to set a date for a Town Board Work Session to review the draft comprehensive plan for the Town of Manlius on April 12th at 5:00 PM.

Ayes: Supervisor Deer, Councilor Bollinger, Councilor Nicholson, Councilor Denton, Councilor Italiano, Councilor Waters, Councilor Kriesel

Nays: 0

All in Favor.

Motion Carries.

9. 7:33 PM Neighborhood Sidewalk Program

Councilor Denton gave a presentation on the proposed Neighborhood Sidewalk Program. The program would guide residents through the process of creating a sidewalk district to fund, build and maintain sidewalks and multi-use trails, based on the availability of funding and meeting specific project criteria. This program will use Town Law Article 12-A to form a sidewalk district if all criteria is met.

The Town Board tabled the matter for public input and Town Board review.

10. 7:46 PM Set a Date for a Public Hearing – Proposed Local Law to Establish a Planned Use District (PUD)

Attorney Frateschi reviewed the proposed local law.

Councilor Bollinger made a motion, seconded by Councilor Nicholson, to refer the proposed local law to *Amend the Town Code to authorize a Planned Unit Development (PUD) Zoning District in Various*

Zoning Districts in the Town and Sets Forth Rules and Regulation for Site Development in the PUD to the Town Planning Board and to the Onondaga County Planning Board as set forth in the resolution prepared by the Attorney for the Town.

Ayes: Supervisor Deer, Councilor Bollinger, Councilor Nicholson, Councilor Denton, Councilor Italiano, Councilor Waters, Councilor Kriesel

Nays: 0

All in Favor.

Motion Carries.

Councilor Nicholson made a motion, seconded by Councilor Kriesel, to set a date for a public hearing on April 12 at 6:35 PM to consider the proposed local law to *Amend the Town Code to authorize a Planned Unit Development (PUD) Zoning District in Various Zoning Districts in the Town and Sets Forth Rules and Regulation for Site Development in the PUD* to the Town Planning Board and to the Onondaga County Planning Board as set forth in the resolution prepared by the Attorney for the Town.

Ayes: Supervisor Deer, Councilor Bollinger, Councilor Nicholson, Councilor Denton, Councilor Italiano, Councilor Waters, Councilor Kriesel

Nays: 0

All in Favor.

Motion Carries.

11. 7:14 PM Annexation Order to the Village of Minoa – Greiner & Caron

Greiner Annexation Order

Councilor Italiano made a motion, seconded by Councilor Denton, to approve the Order to Annex approximately 4.57 acres of land owned by John and Linda Greiner located on Kirkville Road to the Village of Minoa as presented by the Attorney for the Town.

Ayes: Supervisor Deer, Councilor Bollinger, Councilor Nicholson, Councilor Denton, Councilor Italiano, Councilor Waters, Councilor Kriesel

Nays: 0

All in Favor.

Motion Carries.

Caron Annexation Order

Councilor Italiano made a motion, seconded by Councilor Denton, to approve the Order to Annex approximately 3.79 acres of land owned by Sharon Caron located at 7235 North Central Ave to the Village of Minoa as presented by the Attorney for the Town.

Ayes: Supervisor Deer, Councilor Bollinger, Councilor Nicholson, Councilor Denton, Councilor Italiano, Councilor Waters, Councilor Kriesel

Nays: 0

All in Favor.

Motion Carries.

12. 7:54 PM Approval of Minutes – March 8, 2023

Councilor Waters made a motion, seconded by Councilor Italiano, to approve the minutes of the March 8, 2023, Town Board meeting as presented by Town Clerk Weber.

Ayes: Supervisor Deer, Councilor Bollinger, Councilor Nicholson, Councilor Denton, Councilor Italiano, Councilor Waters, Councilor Kriesel

Nays: 0

All in Favor.

Motion Carries.

13. 7:55 PM Approval of Abstract # 6.

Councilor Bollinger made a motion, seconded by Councilor Nicholson, to approve Abstract # 6 as presented by Town Clerk Weber.

TOWN OF MANLIUS		
Fund Summary		
Abstract # 6 - 2023		
CODE	FUND	TOTALS
A	General Fund Townwide	
B	General Fund Town	
DA	Highway Fund Townwide	
DB	Highway Fund Part Town	
SL1	Overhead Lighting District	
SL2	Underground Lighting	
SL3	Entry Lighting	
SL4	Garden Park Lighting	
SL5	Ratnour Bridge Lighting	
SR1	Trash	
SR2	Brush	

Ayes: Supervisor Deer, Councilor Bollinger, Councilor Nicholson, Councilor Denton, Councilor Italiano, Councilor Waters, Councilor Kriesel

Nays: 0

All in Favor.

Motion Carries.

14. 7:55 PM Supervisors Report – January & February

Councilor Bollinger made a motion, seconded by Councilor Denton, to approve the Supervisor's report for January 2023.

Ayes: Supervisor Deer, Councilor Bollinger, Councilor Nicholson, Councilor Denton, Councilor Italiano, Councilor Waters, Councilor Kriesel

Nays: 0

All in Favor.

Motion Carries.

Councilor Bollinger made a motion, seconded by Councilor Denton, to approve the Supervisor's report for February 2023.

Ayes: Supervisor Deer, Councilor Bollinger, Councilor Nicholson, Councilor Denton, Councilor Italiano, Councilor Waters, Councilor Kriesel

Nays: 0

All in Favor.

Motion Carries.

17. 7:25 PM Adjournment

By motion made by Councilor Waters and seconded by Councilor Italiano, the Board voted to adjourn the meeting.

Ayes: Supervisor Deer, Councilor Nicholson, Councilor Bollinger, Councilor Denton, Councilor Italiano, Councilor Waters, Councilor Kriesel

Nays: 0

All in Favor.

Motion Carries.

Respectfully Submitted by:

Allison A. Weber
Town Clerk

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

999-Pooled Cash

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
999-1.100	Pooled Cash - Investing	7,473,811.89	11,805,205.48	11,805,205.48	19,279,017.37
999-1.101	Pooled Cash - Checking	45,511.04	29.40	29.40	45,540.44
999-1.102	Pooled Cash - Payroll	148,880.80	3,171.10	3,171.10	152,051.90
999-1.103	HSBC Pooled Savings	0.00	0.00	0.00	0.00
999-1.104	HSBC Pooled Checking	0.00	0.00	0.00	0.00
999-1.105	HSBC Payroll Checking	0.00	0.00	0.00	0.00
999-1.201	Pathfinder Bank CD	0.00	0.00	0.00	0.00
999-1.390	Due From Other Funds	<u>152,908.63</u>	<u>122,456.51</u> CR	<u>122,456.51</u> CR	<u>30,452.12</u>
	TOTAL ASSETS	7,821,112.36	11,685,949.47	11,685,949.47	19,507,061.83
		=====	=====	=====	=====
<u>LIABILITIES</u>					
999-2.600	Accounts Payable	152,908.63CR	122,456.51	122,456.51	30,452.12CR
999-2.630	Due To Other Funds	<u>7,668,203.73</u> CR	<u>11,808,405.98</u> CR	<u>11,808,405.98</u> CR	<u>19,476,609.71</u> CR
	TOTAL LIABILITIES	7,821,112.36CR	11,685,949.47CR	11,685,949.47CR	19,507,061.83CR
<u>FUND EQUITY</u>					
999-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
999-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	0.00	0.00	0.00	0.00
	TOTAL LIABILITIES & EQUITY	7,821,112.36CR	11,685,949.47CR	11,685,949.47CR	19,507,061.83CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

A00-General Fund Townwide

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
A00-1.200	Claim on Pooled Cash and CD's	3,115,988.69	493,845.93CR	493,845.93CR	2,622,142.76
A00-1.205	M&T Bank - Ebay Acct	162.76	0.00	0.00	162.76
A00-1.210	Petty Cash	500.00	0.00	0.00	500.00
A00-1.220	Petty Cash - Court	50.00	0.00	0.00	50.00
A00-1.250	Taxes Receivable Current	0.00	8,523,885.13	8,523,885.13	8,523,885.13
A00-1.380	Accounts Receivable	6,836.93	0.00	0.00	6,836.93
A00-1.391	Due From Other Funds	0.00	0.00	0.00	0.00
A00-1.410	Due From State & Federal	5,225.71	0.00	0.00	5,225.71
A00-1.440	Due From Other Governments	489,115.72	489,115.72CR	489,115.72CR	0.00
A00-1.441	Due From Other Gov't - Court	0.00	0.00	0.00	0.00
A00-1.480	Prepaid Expenditures	1,204,845.78	1,204,845.78CR	1,204,845.78CR	0.00
A00-1.482	Unemployment Insurance Credits	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	4,822,725.59	6,336,077.70	6,336,077.70	11,158,803.29
		=====	=====	=====	=====
<u>LIABILITIES</u>					
A00-2.600	Pooled Accounts Payable	52,874.24CR	41,572.70	41,572.70	11,301.54CR
A00-2.601	Accrued Liabilities	155,998.30CR	155,998.30	155,998.30	0.00
A00-2.626	BAN's Payable	0.00	0.00	0.00	0.00
A00-2.630	Due to Other Funds	0.00	0.00	0.00	0.00
A00-2.631	Due to Other Governments	1,973.00CR	9,605.75CR	9,605.75CR	11,578.75CR
A00-2.655		0.00	0.00	0.00	0.00
A00-2.688	Other Liabilities	1,009,209.92CR	0.00	0.00	1,009,209.92CR
A00-2.690	Overpayments and Clearing Acct	0.00	793.25	793.25	793.25
A00-2.691	Deferred Revenue	0.00	0.00	0.00	0.00
A00-2.700	Rec Dept Clearing Acct	<u>13,391.52CR</u>	<u>11,943.63CR</u>	<u>11,943.63CR</u>	<u>25,335.15CR</u>
	TOTAL LIABILITIES	1,233,446.98CR	176,814.87	176,814.87	1,056,632.11CR
<u>FUND EQUITY</u>					
A00-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
A00-3.806	Not in Spendable Form	1,204,845.78CR	0.00	0.00	1,204,845.78CR
A00-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
A00-3.884	Reserved for Debt	0.00	0.00	0.00	0.00
A00-3.899	Unrestricted Fund Balance	0.00	0.00	0.00	0.00
A00-3.909	Unappropriated Fund Balance	650,509.99CR	0.00	0.00	650,509.99CR
A00-3.913	Committed Fund Balance	0.00	0.00	0.00	0.00
A00-3.914	Assigned Approp Fund Balance	870,000.00CR	0.00	0.00	870,000.00CR
A00-3.915	Assigned Unapp Fund Balance	10,742.98	0.00	0.00	10,742.98
A00-3.917	Unassigned Fund Balance	874,665.82CR	0.00	0.00	874,665.82CR
A00-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	8,527,408.55CR	8,527,408.55CR	8,527,408.55CR
	TOTAL REVENUES	<u>0.00</u>	<u>2,014,515.98</u>	<u>2,014,515.98</u>	<u>2,014,515.98</u>
	TOTAL FUND EQUITY	3,589,278.61CR	6,512,892.57CR	6,512,892.57CR	10,102,171.18CR
	TOTAL LIABILITIES & EQUITY	4,822,725.59CR	6,336,077.70CR	6,336,077.70CR	11,158,803.29CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

B00-General Fund Part Town

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
B00-1.200	Claim on Pooled Cash and CD's	250,206.44	140,314.84	140,314.84	390,521.28
B00-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
B00-1.391	Due From Other Funds	0.00	0.00	0.00	0.00
B00-1.410	Due From State & Federal	0.00	0.00	0.00	0.00
B00-1.440	Due From Other Governments	0.00	0.00	0.00	0.00
B00-1.480	Prepaid Expenditures	<u>8,353.99</u>	<u>8,354.00CR</u>	<u>8,354.00CR</u>	<u>0.01CR</u>
	TOTAL ASSETS	258,560.43	131,960.84	131,960.84	390,521.27
		=====	=====	=====	=====
<u>LIABILITIES</u>					
B00-2.600	Pooled Accounts Payable	104.22CR	104.22	104.22	0.00
B00-2.601	Accrued Liabilities	0.00	0.00	0.00	0.00
B00-2.630	Due to Other Funds	0.00	0.00	0.00	0.00
B00-2.691	Deferred Revenues	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	104.22CR	104.22	104.22	0.00
<u>FUND EQUITY</u>					
B00-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
B00-3.806	Not in Spendable Form	8,353.99CR	0.00	0.00	8,353.99CR
B00-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
B00-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
B00-3.914	Assigned Approp Fund Balance	175,000.00CR	0.00	0.00	175,000.00CR
B00-3.915	Assigned Unapp Fund Balance	182,816.18CR	0.00	0.00	182,816.18CR
B00-3.917	Unassigned Fund Balance	107,713.96	0.00	0.00	107,713.96
B00-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	172,389.09CR	172,389.09CR	172,389.09CR
	TOTAL REVENUES	<u>0.00</u>	<u>40,324.03</u>	<u>40,324.03</u>	<u>40,324.03</u>
	TOTAL FUND EQUITY	258,456.21CR	132,065.06CR	132,065.06CR	390,521.27CR
	TOTAL LIABILITIES & EQUITY	258,560.43CR	131,960.84CR	131,960.84CR	390,521.27CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

CM1-Police Special Revenue

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
CM1-1.200	Claim on Pooled Cash and CD's	1,952.05	0.00	0.00	1,952.05
CM1-1.201	Police Revenue	6,303.16	5.35	5.35	6,308.51
CM1-1.202	Police Reserve - AED/Donations	3,275.91	2.79	2.79	3,278.70
CM1-1.203	Police Reserve - Stop DWI	48,591.14	18,084.94	18,084.94	66,676.08
CM1-1.204	Police Reserve - Equipment	0.00	0.00	0.00	0.00
CM1-1.391	Due From Other Funds	0.00	0.00	0.00	0.00
CM1-1.410	Due From State & Federal	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	60,122.26	18,093.08	18,093.08	78,215.34
		=====	=====	=====	=====
<u>LIABILITIES</u>					
CM1-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
CM1-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
CM1-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
CM1-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
CM1-3.909	Unappropriated Fund Balance	1,311.78	0.00	0.00	1,311.78
CM1-3.909.Fund Balance - Drug Enforcemnt		0.00	0.00	0.00	0.00
CM1-3.909.Fund Balance - Police Equipmnt		0.00	0.00	0.00	0.00
CM1-3.909.Fund Balance - DWI Equipment		0.00	0.00	0.00	0.00
CM1-3.909.Fund Balance - Defibrillators		0.00	0.00	0.00	0.00
CM1-3.909.Fund Balance - Wall of Honor		0.00	0.00	0.00	0.00
CM1-3.915	Assigned Unapp Fund Balance	61,434.04CR	0.00	0.00	61,434.04CR
CM1-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	18,093.08CR	18,093.08CR	18,093.08CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	60,122.26CR	18,093.08CR	18,093.08CR	78,215.34CR
	TOTAL LIABILITIES & EQUITY	60,122.26CR	18,093.08CR	18,093.08CR	78,215.34CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

CM2-MS4 Flood Water Study

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
CM2-1.200	Claim on Pooled Cash and CD's	0.00	0.00	0.00	0.00
CM2-1.201	MS 4	4,762.68	4.04	4.04	4,766.72
CM2-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
CM2-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	4,762.68	4.04	4.04	4,766.72
		=====	=====	=====	=====
<u>LIABILITIES</u>					
CM2-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
CM2-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
CM2-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
CM2-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
CM2-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
CM2-3.915	Assigned Unapp Fund Balance	4,762.68CR	0.00	0.00	4,762.68CR
CM2-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	4.04CR	4.04CR	4.04CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	4,762.68CR	4.04CR	4.04CR	4,766.72CR
	TOTAL LIABILITIES & EQUITY	4,762.68CR	4.04CR	4.04CR	4,766.72CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

CM3-Sustainable Manlius

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
CM3-1.200	Claim on Pooled Cash	238.95	0.00	0.00	238.95
CM3-1.201	Publicity Acct-Sustain Manlius	10,881.99	8.97	8.97	10,890.96
CM3-1.391	Due From other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	11,120.94	8.97	8.97	11,129.91
		=====	=====	=====	=====
<u>LIABILITIES</u>					
CM3-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
CM3-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
CM3-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
CM3-3.915	Assigned Unapp Fund Balance	11,120.94CR	0.00	0.00	11,120.94CR
	TOTAL REVENUES	0.00	8.97CR	8.97CR	8.97CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	11,120.94CR	8.97CR	8.97CR	11,129.91CR
	TOTAL LIABILITIES & EQUITY	11,120.94CR	8.97CR	8.97CR	11,129.91CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

CM4-Court Special Revenue

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
CM4-1.200	Claim on Pooled Cash and CD's	0.00	0.00	0.00	0.00
CM4-1.201	DWI Arraignments	3,300.74	292.90	292.90	3,593.64
CM4-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	3,300.74	292.90	292.90	3,593.64
		=====	=====	=====	=====
<u>LIABILITIES</u>					
CM4-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
CM4-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
CM4-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
CM4-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
CM4-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
CM4-3.915	Assigned Unapp Fund Balance	3,300.74CR	0.00	0.00	3,300.74CR
CM4-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	292.90CR	292.90CR	292.90CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	3,300.74CR	292.90CR	292.90CR	3,593.64CR
	TOTAL LIABILITIES & EQUITY	3,300.74CR	292.90CR	292.90CR	3,593.64CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

CM5-Parkland Trust

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
CM5-1.200	Claim on	0.00	0.00	0.00	0.00
CM5-1.201	Parkland Fees	46,489.92	39.50	39.50	46,529.42
CM5-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL ASSETS		46,489.92	39.50	39.50	46,529.42
		=====	=====	=====	=====
<u>LIABILITIES</u>					
CM5-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
CM5-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL LIABILITIES		0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
CM5-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
CM5-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
CM5-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
CM5-3.913	Committed Fund Balance	0.09CR	0.00	0.00	0.09CR
CM5-3.915	Assigned Unapp Fund Balance	46,489.83CR	0.00	0.00	46,489.83CR
CM5-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
TOTAL REVENUES		0.00	39.50CR	39.50CR	39.50CR
TOTAL REVENUES		<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL FUND EQUITY		46,489.92CR	39.50CR	39.50CR	46,529.42CR
TOTAL LIABILITIES & EQUITY		46,489.92CR	39.50CR	39.50CR	46,529.42CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

DA0-Highway Fund Townwide

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
DA0-1.201	Claim on Pooled Cash and CD's	1,558,048.83	2,091,859.49	2,091,859.49	3,649,908.32
DA0-1.201	Claim on Pooled Cash - TEMP	0.00	0.00	0.00	0.00
DA0-1.231	Savings - Salt Storage Reserve	75,000.00	0.00	0.00	75,000.00
DA0-1.380	Accounts Receivable	15.00	0.00	0.00	15.00
DA0-1.391	Due From Other Funds	0.00	0.00	0.00	0.00
DA0-1.410	Due From State & Federal	0.00	0.00	0.00	0.00
DA0-1.440	Due From Other Governments	0.00	0.00	0.00	0.00
DA0-1.480	Prepaid Expenses	<u>82,979.00</u>	<u>82,979.00CR</u>	<u>82,979.00CR</u>	<u>0.00</u>
	TOTAL ASSETS	1,716,042.83	2,008,880.49	2,008,880.49	3,724,923.32
		=====	=====	=====	=====
<u>LIABILITIES</u>					
DA0-2.600	Pooled Accounts Payable	97,904.32CR	80,662.42	80,662.42	17,241.90CR
DA0-2.601	Accrued Liabilities	148,863.40CR	148,863.40	148,863.40	0.00
DA0-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	246,767.72CR	229,525.82	229,525.82	17,241.90CR
<u>FUND EQUITY</u>					
DA0-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
DA0-3.806	Not in Spendable Form	82,979.00CR	0.00	0.00	82,979.00CR
DA0-3.878	Capital Reserve Balance	75,000.00CR	0.00	0.00	75,000.00CR
DA0-3.899	Restricted Fund Balance	0.00	0.00	0.00	0.00
DA0-3.909	Unappropriated Fund Balance	303,624.12	0.00	0.00	303,624.12
DA0-3.914	Assigned Approp Fund Balance	100,000.00CR	0.00	0.00	100,000.00CR
DA0-3.915	Assigned Unapp Fund Balance	1,514,920.23CR	0.00	0.00	1,514,920.23CR
DA0-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
DA0-3.995	Capital Equiprment Fund	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	2,369,358.97CR	2,369,358.97CR	2,369,358.97CR
	TOTAL REVENUES	<u>0.00</u>	<u>130,952.66</u>	<u>130,952.66</u>	<u>130,952.66</u>
	TOTAL FUND EQUITY	1,469,275.11CR	2,238,406.31CR	2,238,406.31CR	3,707,681.42CR
	TOTAL LIABILITIES & EQUITY	1,716,042.83CR	2,008,880.49CR	2,008,880.49CR	3,724,923.32CR
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TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

DB0-Highway -Part Town

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
DB0-1.200	Claim on Pooled Cash and CD's	1,352,723.15	1,984,882.09	1,984,882.09	3,337,605.24
DB0-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
DB0-1.391	Due From Other Funds	0.00	0.00	0.00	0.00
DB0-1.410	Due From State & Federal	0.00	0.00	0.00	0.00
DB0-1.440	Due From Other Governments	0.00	0.00	0.00	0.00
DB0-1.480	Prepaid Expenses	<u>82,979.00</u>	<u>82,979.00</u> CR	<u>82,979.00</u> CR	<u>0.00</u>
	TOTAL ASSETS	1,435,702.15	1,901,903.09	1,901,903.09	3,337,605.24
		=====	=====	=====	=====
<u>LIABILITIES</u>					
DB0-2.600	Pooled Accounts Payable	2,025.85CR	117.17	117.17	1,908.68CR
DB0-2.601	Accrued Liabilities	0.00	0.00	0.00	0.00
DB0-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	2,025.85CR	117.17	117.17	1,908.68CR
<u>FUND EQUITY</u>					
DB0-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
DB0-3.806	Not in Spendable Form	82,979.00CR	0.00	0.00	82,979.00CR
DB0-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
DB0-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
DB0-3.914	Assigned Approp Fund Balance	200,000.00CR	0.00	0.00	200,000.00CR
DB0-3.915	Assigned Unapp Fund Balance	1,150,697.30CR	0.00	0.00	1,150,697.30CR
DB0-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	1,984,915.61CR	1,984,915.61CR	1,984,915.61CR
	TOTAL REVENUES	<u>0.00</u>	<u>82,895.35</u>	<u>82,895.35</u>	<u>82,895.35</u>
	TOTAL FUND EQUITY	1,433,676.30CR	1,902,020.26CR	1,902,020.26CR	3,335,696.56CR
	TOTAL LIABILITIES & EQUITY	1,435,702.15CR	1,901,903.09CR	1,901,903.09CR	3,337,605.24CR
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TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

HA0-Landfill Capital Fund

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
HA0-1.200	Claim on Pooled Cash and CD's	0.00	0.00	0.00	0.00
HA0-1.201	Landfill - Capital Outlay Cash	20,599.95	21.36	21.36	20,621.31
HA0-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	20,599.95	21.36	21.36	20,621.31
		=====	=====	=====	=====
<u>LIABILITIES</u>					
HA0-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
HA0-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
HA0-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
HA0-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
HA0-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
HA0-3.915	Assigned Unapp Fund Balance	20,599.95CR	0.00	0.00	20,599.95CR
HA0-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	21.36CR	21.36CR	21.36CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	20,599.95CR	21.36CR	21.36CR	20,621.31CR
	TOTAL LIABILITIES & EQUITY	20,599.95CR	21.36CR	21.36CR	20,621.31CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

HB0-Watervale Rd Water Ext

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
HB0-1.200	Claim on Pooled Cash and CD's	0.00	0.00	0.00	0.00
HB0-1.201	Watervale - Capital Otly Cash	0.00	0.00	0.00	0.00
HB0-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	0.00	0.00	0.00	0.00
		=====	=====	=====	=====
<u>LIABILITIES</u>					
HB0-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
HB0-2.626	BAN'S Payable	0.00	0.00	0.00	0.00
HB0-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
HB0-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
HB0-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
HB0-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
HB0-3.915	Assigned Unapp Fund Balance	0.00	0.00	0.00	0.00
HB0-3.917	Unassigned Fund Balance	0.00	0.00	0.00	0.00
HB0-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	0.00	0.00	0.00	0.00
	TOTAL LIABILITIES & EQUITY	0.00	0.00	0.00	0.00
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

HD0-Thompson Sewer District

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
HD0-1.200	Claim on Pooled Cash and CD's	3.86	0.00	0.00	3.86
HD0-1.201	Thompson - Capital Outlay Cash	4,542.99	0.00	0.00	4,542.99
HD0-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	4,546.85	0.00	0.00	4,546.85
		=====	=====	=====	=====
<u>LIABILITIES</u>					
HD0-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
HD0-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
HD0-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
HD0-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
HD0-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
HD0-3.915	Assigned Unapp Fund Balance	4,546.85CR	0.00	0.00	4,546.85CR
HD0-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	4,546.85CR	0.00	0.00	4,546.85CR
	TOTAL LIABILITIES & EQUITY	4,546.85CR	0.00	0.00	4,546.85CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

HE0-Salt Storage Facility

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
HE0-1.200	Claim on Pooled Cash and CD's	340.01	153.31	153.31	493.32
HE0-1.201	Salt Strg - Capital Outly Cash	0.00	0.00	0.00	0.00
HE0-1.220	Cash From Obligations	0.00	0.00	0.00	0.00
HE0-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	340.01	153.31	153.31	493.32
		=====	=====	=====	=====
<u>LIABILITIES</u>					
HE0-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
HE0-2.626	BAN'S Payable	0.00	0.00	0.00	0.00
HE0-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
HE0-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
HE0-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
HE0-3.884	Reserved for Debt	0.00	0.00	0.00	0.00
HE0-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
HE0-3.915	Assigned Unapp Fund Balance	340.01CR	0.00	0.00	340.01CR
HE0-3.917	Unassigned Fund Balance	0.00	0.00	0.00	0.00
HE0-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	153.31CR	153.31CR	153.31CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	340.01CR	153.31CR	153.31CR	493.32CR
	TOTAL LIABILITIES & EQUITY	340.01CR	153.31CR	153.31CR	493.32CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

HG0-Highway Gararge Roof

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
HG0-1.200	Claim on Pooled Cash and CD's	28,848.50	35.57	35.57	28,884.07
HG0-1.220	Cash From Obligations	0.00	0.00	0.00	0.00
HG0-1.390	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	28,848.50	35.57	35.57	28,884.07
		=====	=====	=====	=====
<u>LIABILITIES</u>					
HG0-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
HG0-2.626	BAN's Payable	0.00	0.00	0.00	0.00
HG0-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
HG0-3.884	Reserved For Debt	0.00	0.00	0.00	0.00
HG0-3.917	Unassigned Fund Balance	28,848.50CR	0.00	0.00	28,848.50CR
	TOTAL REVENUES	0.00	35.57CR	35.57CR	35.57CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	28,848.50CR	35.57CR	35.57CR	28,884.07CR
	TOTAL LIABILITIES & EQUITY	28,848.50CR	35.57CR	35.57CR	28,884.07CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

HH0-Highway Eqpt Reserve Fund

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
HH0-1.200	Claim on Pooled Cash and CDs	0.00	0.00	0.00	0.00
HH0-1.201	Highway Eqpt Reserve	0.00	0.00	0.00	0.00
HH0-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	0.00	0.00	0.00	0.00
		=====	=====	=====	=====
<u>LIABILITIES</u>					
HH0-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
HH0-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
HH0-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
HH0-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
HH0-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
HH0-3.915	Assigned Unapp Fund Balance	0.00	0.00	0.00	0.00
HH0-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	0.00	0.00	0.00	0.00
	TOTAL LIABILITIES & EQUITY	0.00	0.00	0.00	0.00
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

HW0-Town Hall Windows

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
HW0-1.200	Claim on Pooled Cash and CD's	0.00	0.00	0.00	0.00
HW0-1.220	Cash from Obligations	0.00	0.00	0.00	0.00
HW0-1.390	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	0.00	0.00	0.00	0.00
		=====	=====	=====	=====
<u>LIABILITIES</u>					
HW0-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
HW0-2.626	BAN's Payable	0.00	0.00	0.00	0.00
HW0-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
HW0-3.884	Reserve for Debt Fund	0.00	0.00	0.00	0.00
HW0-3.917	Unassigned Fund Balance	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	0.00	0.00	0.00	0.00
	TOTAL LIABILITIES & EQUITY	0.00	0.00	0.00	0.00
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

K -Fixed Assets

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
K-1.101	Land	0.00	0.00	0.00	0.00
K-1.102	Buildings	0.00	0.00	0.00	0.00
K-1.103	Improvements other than Bldgs	0.00	0.00	0.00	0.00
K-1.104	Machinery and Eqpt	0.00	0.00	0.00	0.00
K-1.105	CWIP	0.00	0.00	0.00	0.00
K-1.106	Infrastructure	0.00	0.00	0.00	0.00
K-1.107	Other Capital Assets	0.00	0.00	0.00	0.00
K-1.112	Accum Deprec - Bldgs	0.00	0.00	0.00	0.00
K-1.113	Accum Deprec - Other than bldg	0.00	0.00	0.00	0.00
K-1.114	Accum Deprec - Mach and Eqpt	0.00	0.00	0.00	0.00
K-1.116	Accum Deprec - Infrastructure	0.00	0.00	0.00	0.00
K-1.117	Accum Deprec - Other	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	0.00	0.00	0.00	0.00
		=====	=====	=====	=====
<u>FUND EQUITY</u>					
K-3.900	Net Assets Invested	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	(WILL CLOSE TO FUND BAL.)	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	0.00	0.00	0.00	0.00
	TOTAL LIABILITIES & EQUITY	0.00	0.00	0.00	0.00
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

SD1-Consolidated Drainage #1

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SD1-1.200	Claim on Pooled Cash and CD's	257,824.18	66,005.42	66,005.42	323,829.60
SD1-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	257,824.18	66,005.42	66,005.42	323,829.60
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SD1-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SD1-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SD1-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SD1-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SD1-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SD1-3.915	Assigned Unapp Fund Balance	257,824.18CR	0.00	0.00	257,824.18CR
SD1-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	66,005.42CR	66,005.42CR	66,005.42CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	257,824.18CR	66,005.42CR	66,005.42CR	323,829.60CR
	TOTAL LIABILITIES & EQUITY	257,824.18CR	66,005.42CR	66,005.42CR	323,829.60CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

SD2-Donsolidated Drainage #2

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SD2-1.200	Claim on Pooled Cash and CD's	234,824.37	34,510.53	34,510.53	269,334.90
SD2-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	234,824.37	34,510.53	34,510.53	269,334.90
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SD2-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SD2-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SD2-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SD2-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SD2-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SD2-3.915	Assigned Unapp Fund Balance	234,824.37CR	0.00	0.00	234,824.37CR
SD2-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	34,510.53CR	34,510.53CR	34,510.53CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	234,824.37CR	34,510.53CR	34,510.53CR	269,334.90CR
	TOTAL LIABILITIES & EQUITY	234,824.37CR	34,510.53CR	34,510.53CR	269,334.90CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

SD3-Consolidated Drainage #3

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SD3-1.200	Claim on Pooled Cash and CD's	385,380.02	85,911.58	85,911.58	471,291.60
SD3-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	385,380.02	85,911.58	85,911.58	471,291.60
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SD3-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SD3-2.601	Accrued Liabilities	0.00	0.00	0.00	0.00
SD3-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SD3-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SD3-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SD3-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SD3-3.915	Assigned Unapp Fund Balance	385,380.02CR	0.00	0.00	385,380.02CR
SD3-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	88,741.58CR	88,741.58CR	88,741.58CR
	TOTAL REVENUES	<u>0.00</u>	<u>2,830.00</u>	<u>2,830.00</u>	<u>2,830.00</u>
	TOTAL FUND EQUITY	385,380.02CR	85,911.58CR	85,911.58CR	471,291.60CR
	TOTAL LIABILITIES & EQUITY	385,380.02CR	85,911.58CR	85,911.58CR	471,291.60CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

SF1-Fayetteville Fire Protect

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
	SF1-1.200 Claim on Pooled Cash and CD's	2,925.70	1,994,117.27	1,994,117.27	1,997,042.97
	SF1-1.391 Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	2,925.70	1,994,117.27	1,994,117.27	1,997,042.97
		=====	=====	=====	=====
<u>LIABILITIES</u>					
	SF1-2.600 Pooled Accounts Payable	0.00	0.00	0.00	0.00
	SF1-2.630 Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
	SF1-3.599 Appropriated Fund Balance	0.00	0.00	0.00	0.00
	SF1-3.821 Reserve for Encumbrances	0.00	0.00	0.00	0.00
	SF1-3.909 Unappropriated Fund Balance	0.00	0.00	0.00	0.00
	SF1-3.915 Assigned Unapp Fund Balance	2,925.70CR	0.00	0.00	2,925.70CR
	SF1-3.962 Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	1,994,117.27CR	1,994,117.27CR	1,994,117.27CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	2,925.70CR	1,994,117.27CR	1,994,117.27CR	1,997,042.97CR
	TOTAL LIABILITIES & EQUITY	2,925.70CR	1,994,117.27CR	1,994,117.27CR	1,997,042.97CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

SF2-Manlius Fire Protection

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SF2-1.200	Claim on Pooled Cash and CD's	11,026.95	1,582,485.52	1,582,485.52	1,593,512.47
SF2-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	11,026.95	1,582,485.52	1,582,485.52	1,593,512.47
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SF2-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SF2-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SF2-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SF2-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SF2-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SF2-3.915	Assigned Unapp Fund Balance	11,026.95CR	0.00	0.00	11,026.95CR
SF2-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	1,582,485.52CR	1,582,485.52CR	1,582,485.52CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	11,026.95CR	1,582,485.52CR	1,582,485.52CR	1,593,512.47CR
	TOTAL LIABILITIES & EQUITY	11,026.95CR	1,582,485.52CR	1,582,485.52CR	1,593,512.47CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

SF3-Minoa Fire Protection

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SF3-1.200	Claim on Pooled Cash and CD's	1,741.37	1,241,736.03	1,241,736.03	1,243,477.40
SF3-1.391	Due From Other Funds	0.00	0.00	0.00	0.00
SF3-1.440	Due From Other Governments	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL ASSETS		1,741.37	1,241,736.03	1,241,736.03	1,243,477.40
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SF3-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SF3-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL LIABILITIES		0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SF3-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SF3-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SF3-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SF3-3.915	Assigned Unapp Fund Balance	1,741.37CR	0.00	0.00	1,741.37CR
SF3-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
TOTAL REVENUES		0.00	1,241,736.03CR	1,241,736.03CR	1,241,736.03CR
TOTAL REVENUES		<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL FUND EQUITY		1,741.37CR	1,241,736.03CR	1,241,736.03CR	1,243,477.40CR
TOTAL LIABILITIES & EQUITY		1,741.37CR	1,241,736.03CR	1,241,736.03CR	1,243,477.40CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

SF4-Kirkville Fire Department

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SF4-1.200	Claim on Pooled Cash and CD's	<u>10.58</u>	<u>238,815.25</u>	<u>238,815.25</u>	<u>238,825.83</u>
	TOTAL ASSETS	10.58	238,815.25	238,815.25	238,825.83
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SF4-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SF4-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SF4-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SF4-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SF4-3.915	Assigned Unapp Fund Balance	10.58CR	0.00	0.00	10.58CR
SF4-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	238,815.25CR	238,815.25CR	238,815.25CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	10.58CR	238,815.25CR	238,815.25CR	238,825.83CR
	TOTAL LIABILITIES & EQUITY	10.58CR	238,815.25CR	238,815.25CR	238,825.83CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

SL1-Overhead Lighting

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SL1-1.200	Claim on Pooled Cash and CD's	7,144.44	23,246.73	23,246.73	30,391.17
SL1-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	7,144.44	23,246.73	23,246.73	30,391.17
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SL1-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SL1-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SL1-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SL1-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SL1-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SL1-3.915	Assigned Unapp Fund Balance	7,144.44CR	0.00	0.00	7,144.44CR
SL1-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	25,036.41CR	25,036.41CR	25,036.41CR
	TOTAL REVENUES	<u>0.00</u>	<u>1,789.68</u>	<u>1,789.68</u>	<u>1,789.68</u>
	TOTAL FUND EQUITY	7,144.44CR	23,246.73CR	23,246.73CR	30,391.17CR
	TOTAL LIABILITIES & EQUITY	7,144.44CR	23,246.73CR	23,246.73CR	30,391.17CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

SL2-Underground Lighting

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SL2-1.200	Claim on Pooled Cash and CD's	9,187.98	30,560.03	30,560.03	39,748.01
SL2-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	9,187.98	30,560.03	30,560.03	39,748.01
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SL2-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SL2-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SL2-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SL2-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SL2-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SL2-3.915	Assigned Unapp Fund Balance	9,187.98CR	0.00	0.00	9,187.98CR
SL2-3.917	Unassigned Fund Balance	0.00	0.00	0.00	0.00
SL2-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	33,008.80CR	33,008.80CR	33,008.80CR
	TOTAL REVENUES	<u>0.00</u>	<u>2,448.77</u>	<u>2,448.77</u>	<u>2,448.77</u>
	TOTAL FUND EQUITY	9,187.98CR	30,560.03CR	30,560.03CR	39,748.01CR
	TOTAL LIABILITIES & EQUITY	9,187.98CR	30,560.03CR	30,560.03CR	39,748.01CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

SL3-Entry Lighting

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SL3-1.200	Claim on Pooled Cash and CD's	4,650.56	1,591.95	1,591.95	6,242.51
SL3-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	4,650.56	1,591.95	1,591.95	6,242.51
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SL3-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SL3-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SL3-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SL3-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SL3-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SL3-3.915	Assigned Unapp Fund Balance	4,650.56CR	0.00	0.00	4,650.56CR
SL3-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	1,710.38CR	1,710.38CR	1,710.38CR
	TOTAL REVENUES	<u>0.00</u>	<u>118.43</u>	<u>118.43</u>	<u>118.43</u>
	TOTAL FUND EQUITY	4,650.56CR	1,591.95CR	1,591.95CR	6,242.51CR
	TOTAL LIABILITIES & EQUITY	4,650.56CR	1,591.95CR	1,591.95CR	6,242.51CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

SL4-Garden Park Lighting

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SL4-1.200	Claim on Pooled Cash and CD's	359.77	9,298.94	9,298.94	9,658.71
SL4-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	359.77	9,298.94	9,298.94	9,658.71
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SL4-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SL4-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SL4-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SL4-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SL4-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SL4-3.915	Assigned Unapp Fund Balance	359.77CR	0.00	0.00	359.77CR
SL4-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	10,001.78CR	10,001.78CR	10,001.78CR
	TOTAL REVENUES	<u>0.00</u>	<u>702.84</u>	<u>702.84</u>	<u>702.84</u>
	TOTAL FUND EQUITY	359.77CR	9,298.94CR	9,298.94CR	9,658.71CR
	TOTAL LIABILITIES & EQUITY	359.77CR	9,298.94CR	9,298.94CR	9,658.71CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

SL5-Ratnour Bridge Lighting

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SL5-1.200	Claim on Pooled Cash and CD's	24,959.76	34,325.96	34,325.96	59,285.72
SL5-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	24,959.76	34,325.96	34,325.96	59,285.72
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SL5-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SL5-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SL5-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SL5-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SL5-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SL5-3.915	Assigned Unapp Fund Balance	24,959.76CR	0.00	0.00	24,959.76CR
SL5-3.917	Unassigned Fund Balance	0.00	0.00	0.00	0.00
SL5-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	37,021.23CR	37,021.23CR	37,021.23CR
	TOTAL REVENUES	<u>0.00</u>	<u>2,695.27</u>	<u>2,695.27</u>	<u>2,695.27</u>
	TOTAL FUND EQUITY	24,959.76CR	34,325.96CR	34,325.96CR	59,285.72CR
	TOTAL LIABILITIES & EQUITY	24,959.76CR	34,325.96CR	34,325.96CR	59,285.72CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

SR1-Manlius Res Trash Dist

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SR1-1.200	Claim on Pooled Cash and CD's	69,501.04	2,282,590.11	2,282,590.11	2,352,091.15
SR1-1.391	Due From Other Funds	0.00	0.00	0.00	0.00
SR1-1.480	Prepaid Expenses	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	69,501.04	2,282,590.11	2,282,590.11	2,352,091.15
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SR1-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SR1-2.601	Accrued Liabilities	0.00	0.00	0.00	0.00
SR1-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SR1-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SR1-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SR1-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SR1-3.915	Assigned Unapp Fund Balance	69,501.04CR	0.00	0.00	69,501.04CR
SR1-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	2,488,357.48CR	2,488,357.48CR	2,488,357.48CR
	TOTAL REVENUES	<u>0.00</u>	<u>205,767.37</u>	<u>205,767.37</u>	<u>205,767.37</u>
	TOTAL FUND EQUITY	69,501.04CR	2,282,590.11CR	2,282,590.11CR	2,352,091.15CR
	TOTAL LIABILITIES & EQUITY	69,501.04CR	2,282,590.11CR	2,282,590.11CR	2,352,091.15CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

SR2-Manlius Res Brush Dist

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SR2-1.200	Claim on Pooled Cash and CD's	11,059.30	291,947.08	291,947.08	303,006.38
SR2-1.391	Due From Other Funds	0.00	0.00	0.00	0.00
SR2-1.480	Prepaid Expenses	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	11,059.30	291,947.08	291,947.08	303,006.38
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SR2-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SR2-2.601	Accrued Liabilities	0.00	0.00	0.00	0.00
SR2-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SR2-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SR2-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SR2-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SR2-3.915	Assigned Unapp Fund Balance	11,059.30CR	0.00	0.00	11,059.30CR
SR2-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	317,320.45CR	317,320.45CR	317,320.45CR
	TOTAL REVENUES	<u>0.00</u>	<u>25,373.37</u>	<u>25,373.37</u>	<u>25,373.37</u>
	TOTAL FUND EQUITY	11,059.30CR	291,947.08CR	291,947.08CR	303,006.38CR
	TOTAL LIABILITIES & EQUITY	11,059.30CR	291,947.08CR	291,947.08CR	303,006.38CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

SS1-Manlius Con Sewer Dist

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SS1-1.200	Claim on Pooled Cash and CD's	25,195.59	243.80	243.80	25,439.39
SS1-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
SS1-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	25,195.59	243.80	243.80	25,439.39
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SS1-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SS1-2.601	Accrued Liabilities	0.00	0.00	0.00	0.00
SS1-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SS1-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SS1-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SS1-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SS1-3.914	Assigned Approp Fund Balance	75,105.00CR	0.00	0.00	75,105.00CR
SS1-3.915	Assigned Unapp Fund Balance	49,909.41	0.00	0.00	49,909.41
SS1-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	243.80CR	243.80CR	243.80CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	25,195.59CR	243.80CR	243.80CR	25,439.39CR
	TOTAL LIABILITIES & EQUITY	25,195.59CR	243.80CR	243.80CR	25,439.39CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

SS2-Thompson Sewer District

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SS2-1.200	Claim on Pooled Cash and CD's	5,608.33	18,465.05	18,465.05	24,073.38
SS2-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
SS2-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	5,608.33	18,465.05	18,465.05	24,073.38
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SS2-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SS2-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SS2-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SS2-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SS2-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SS2-3.915	Assigned Unapp Fund Balance	5,608.33CR	0.00	0.00	5,608.33CR
SS2-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	18,465.05CR	18,465.05CR	18,465.05CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	5,608.33CR	18,465.05CR	18,465.05CR	24,073.38CR
	TOTAL LIABILITIES & EQUITY	5,608.33CR	18,465.05CR	18,465.05CR	24,073.38CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

SS3-Megninn Farms Sewer

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SS3-1.200	Claim on Pooled Cash and CD's	279.36	71,996.85	71,996.85	72,276.21
SS3-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	279.36	71,996.85	71,996.85	72,276.21
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SS3-2.600	Pooled Accounts Payable	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SS3-3.599	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SS3-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SS3-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SS3-3.915	Assigned Unapp Fund Balance	279.36CR	0.00	0.00	279.36CR
	TOTAL REVENUES	0.00	71,996.85CR	71,996.85CR	71,996.85CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	279.36CR	71,996.85CR	71,996.85CR	72,276.21CR
	TOTAL LIABILITIES & EQUITY	279.36CR	71,996.85CR	71,996.85CR	72,276.21CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

SW1-Manlius Con Water Supply

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SW1-1.200	Claim on Pooled Cash and CD's	32,970.55	1,046.78	1,046.78	34,017.33
SW1-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
SW1-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	32,970.55	1,046.78	1,046.78	34,017.33
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SW1-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SW1-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SW1-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SW1-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SW1-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SW1-3.915	Assigned Unapp Fund Balance	32,970.55CR	0.00	0.00	32,970.55CR
SW1-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	1,046.78CR	1,046.78CR	1,046.78CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	32,970.55CR	1,046.78CR	1,046.78CR	34,017.33CR
	TOTAL LIABILITIES & EQUITY	32,970.55CR	1,046.78CR	1,046.78CR	34,017.33CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

SW2-Manlius Con Water Dist

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SW2-1.200	Claim on Pooled Cash and CD's	10,448.49	61,005.03	61,005.03	71,453.52
SW2-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	10,448.49	61,005.03	61,005.03	71,453.52
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SW2-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SW2-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SW2-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SW2-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SW2-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SW2-3.915	Assigned Unapp Fund Balance	10,448.49CR	0.00	0.00	10,448.49CR
SW2-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	61,005.03CR	61,005.03CR	61,005.03CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	10,448.49CR	61,005.03CR	61,005.03CR	71,453.52CR
	TOTAL LIABILITIES & EQUITY	10,448.49CR	61,005.03CR	61,005.03CR	71,453.52CR
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TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

SW3-Skyridge Water District

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SW3-1.200	Claim on Pooled Cash and CD's	43,464.07	11,231.97	11,231.97	54,696.04
SW3-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
SW3-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL ASSETS		43,464.07	11,231.97	11,231.97	54,696.04
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SW3-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SW3-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL LIABILITIES		0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SW3-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SW3-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SW3-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SW3-3.915	Assigned Unapp Fund Balance	43,464.07CR	0.00	0.00	43,464.07CR
SW3-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
TOTAL REVENUES		0.00	11,231.97CR	11,231.97CR	11,231.97CR
TOTAL REVENUES		<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL FUND EQUITY		43,464.07CR	11,231.97CR	11,231.97CR	54,696.04CR
TOTAL LIABILITIES & EQUITY		43,464.07CR	11,231.97CR	11,231.97CR	54,696.04CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

SW4-Highbridge Water District

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SW4-1.200	Claim on Pooled Cash	12,302.59	3,095.76	3,095.76	15,398.35
SW4-1.391	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	12,302.59	3,095.76	3,095.76	15,398.35
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SW4-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SW4-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SW4-3.909	Unappropriated Fund Balance	12,302.59CR	0.00	0.00	12,302.59CR
	TOTAL REVENUES	0.00	3,095.76CR	3,095.76CR	3,095.76CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	12,302.59CR	3,095.76CR	3,095.76CR	15,398.35CR
	TOTAL LIABILITIES & EQUITY	12,302.59CR	3,095.76CR	3,095.76CR	15,398.35CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

TA1-Trust & Agency - Payroll

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
TA1-1.200	Claim on Pooled Cash and CD's	142,832.99	543.64	543.64	143,376.63
TA1-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
TA1-1.391	Due From Other Funds	0.00	0.00	0.00	0.00
TA1-1.440	Due From Other Governemnts	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	142,832.99	543.64	543.64	143,376.63
		=====	=====	=====	=====
<u>LIABILITIES</u>					
TA1-2.100	Consolidated Payroll	977.06	0.00	0.00	977.06
TA1-2.110	SUI/SDI	0.00	0.00	0.00	0.00
TA1-2.170	Deferred Compensation	34.68CR	0.00	0.00	34.68CR
TA1-2.180	NYS Retirement	43,023.11CR	12,707.22	12,707.22	30,315.89CR
TA1-2.190	Disability Insurance	21,552.96CR	275.59CR	275.59CR	21,828.55CR
TA1-2.200	Health Insurance	75,196.47CR	14,560.36CR	14,560.36CR	89,756.83CR
TA1-2.210	NYS Withholding	0.00	0.00	0.00	0.00
TA1-2.220	Federal Withholding	0.00	0.00	0.00	0.00
TA1-2.240	Union Dues	0.00	0.00	0.00	0.00
TA1-2.250	Alfac Insurance	189.35CR	30.48CR	30.48CR	219.83CR
TA1-2.260	Social Security & Medicare	0.00	0.00	0.00	0.00
TA1-2.270	Colonial Supplmt Insurance	537.86	248.11	248.11	785.97
TA1-2.280	Flexible Spending	4,651.82	1,479.91	1,479.91	6,131.73
TA1-2.290	Guardian Life Insurance	2,894.98CR	6.92CR	6.92CR	2,901.90CR
TA1-2.300	Savingts & Direct Deposit	0.00	0.00	0.00	0.00
TA1-2.360	Garnishee & Child Support	27.46CR	0.00	0.00	27.46CR
TA1-2.390	Misc Payroll Deduction	3,523.12CR	0.00	0.00	3,523.12CR
TA1-2.400	Taxes Payable	0.00	0.00	0.00	0.00
TA1-2.600	Pooled Accounts Payable	17.43	0.00	0.00	17.43
TA1-2.630	Due To Other Funds	0.00	0.00	0.00	0.00
TA1-2.850	Credit Union	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	140,257.96CR	438.11CR	438.11CR	140,696.07CR
<u>FUND EQUITY</u>					
TA1-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
TA1-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
TA1-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
TA1-3.915	Assigned Unapp Fund Balance	2,575.03CR	0.00	0.00	2,575.03CR
TA1-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	105.53CR	105.53CR	105.53CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	2,575.03CR	105.53CR	105.53CR	2,680.56CR
	TOTAL LIABILITIES & EQUITY	142,832.99CR	543.64CR	543.64CR	143,376.63CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

TA2-Trust & Agency - Other

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
TA2-1.200	Claim on Pooled Cash and CD's	61,480.82	68.51	68.51	61,549.33
TA2-1.201	Escrow - Misc. Deposits	134,295.98	248.16CR	248.16CR	134,047.82
TA2-1.202	Police Savings - M&T	0.00	0.00	0.00	0.00
TA2-1.203	Savings/Bond & Bail Deposits	34,473.16	0.00	0.00	34,473.16
TA2-1.204	CD/Quarry Deposit - Key	0.00	0.00	0.00	0.00
TA2-1.205	Currency Property	39,994.87	0.00	0.00	39,994.87
TA2-1.206	M&T - Solar Deposits	301,163.63	255.89	255.89	301,419.52
TA2-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	571,408.46	76.24	76.24	571,484.70
		=====	=====	=====	=====
<u>LIABILITIES</u>					
TA2-2.290	Quarry/Kinsella Deposit	0.00	0.00	0.00	0.00
TA2-2.300	Bond & Coupon Deposits	32,471.67CR	0.00	0.00	32,471.67CR
TA2-2.310	Street Opening Deposits	10,392.64CR	0.00	0.00	10,392.64CR
TA2-2.320	Bid Deposits	39,750.00CR	575.00CR	575.00CR	40,325.00CR
TA2-2.350	Unclaimed Bail Deposits	15,344.87CR	0.00	0.00	15,344.87CR
TA2-2.360	Currency Property Liability	39,994.87CR	0.00	0.00	39,994.87CR
TA2-2.400	Solar Deposits	300,823.50CR	0.00	0.00	300,823.50CR
TA2-2.500	Foreign Fire Insurance Tax	0.00	0.00	0.00	0.00
TA2-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
TA2-2.630	Due To Other Funds	0.00	0.00	0.00	0.00
TA2-2.851	Engineering Deposits	125,994.74CR	937.00	937.00	125,057.74CR
TA2-2.852	Savings Interest	<u>3,456.50CR</u>	<u>0.00</u>	<u>0.00</u>	<u>3,456.50CR</u>
	TOTAL LIABILITIES	568,228.79CR	362.00	362.00	567,866.79CR
<u>FUND EQUITY</u>					
TA2-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
TA2-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
TA2-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
TA2-3.915	Assigned Unapp Fund Balance	3,179.67CR	0.00	0.00	3,179.67CR
TA2-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	438.24CR	438.24CR	438.24CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	3,179.67CR	438.24CR	438.24CR	3,617.91CR
	TOTAL LIABILITIES & EQUITY	571,408.46CR	76.24CR	76.24CR	571,484.70CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

W -Long Term Debt

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
W-1.129	Total Non-Current Govt Liab	<u>70,265.00</u>	<u>0.00</u>	<u>0.00</u>	<u>70,265.00</u>
	TOTAL ASSETS	70,265.00	0.00	0.00	70,265.00
		=====	=====	=====	=====
<u>LIABILITIES</u>					
W-2.626	BAN's Payable	0.00	0.00	0.00	0.00
W-2.628	Bonds Payable	75,000.00	0.00	0.00	75,000.00
W-2.638	Net Pension Liability	145,265.00CR	0.00	0.00	145,265.00CR
W-2.685	Installment Purchase Debt	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	70,265.00CR	0.00	0.00	70,265.00CR
<u>FUND EQUITY</u>					
W-3.909		0.00	0.00	0.00	0.00
W-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	0.00	0.00	0.00	0.00
	TOTAL LIABILITIES & EQUITY	70,265.00CR	0.00	0.00	70,265.00CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

W10-Eagle Village Water Dist

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
W10-1.200	Claim on Pooled Cash and CD's	0.00	0.00	0.00	0.00
W10-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
W10-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	0.00	0.00	0.00	0.00
		=====	=====	=====	=====
<u>LIABILITIES</u>					
W10-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
W10-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
W10-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
W10-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
W10-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
W10-3.915	Assigned Unapp Fund Balance	0.00	0.00	0.00	0.00
W10-3.917	Unassigned Fund Balance	0.00	0.00	0.00	0.00
W10-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	0.00	0.00	0.00	0.00
	TOTAL LIABILITIES & EQUITY	0.00	0.00	0.00	0.00
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

W20-Jas N Manlius Water Spplly

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
W20-1.200	Claim on Pooled Cash and CD's	0.00	0.00	0.00	0.00
W20-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
W20-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	0.00	0.00	0.00	0.00
		=====	=====	=====	=====
<u>LIABILITIES</u>					
W20-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
W20-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
W20-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
W20-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
W20-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
W20-3.915	Assigned Unapp Fund Balance	0.00	0.00	0.00	0.00
W20-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	0.00	0.00	0.00	0.00
	TOTAL LIABILITIES & EQUITY	0.00	0.00	0.00	0.00
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

W30-Minoa Road Water Supply

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
W30-1.200	Claim on Pooled Cash and CD's	0.00	0.00	0.00	0.00
W30-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
W30-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	0.00	0.00	0.00	0.00
		=====	=====	=====	=====
<u>LIABILITIES</u>					
W30-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
W30-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
W30-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
W30-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
W30-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
W30-3.915	Assigned Unapp Fund Balance	0.00	0.00	0.00	0.00
W30-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	0.00	0.00	0.00	0.00
	TOTAL LIABILITIES & EQUITY	0.00	0.00	0.00	0.00
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

W40-Minoa Road Water Extensn

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
W40-1.200	Claim on Pooled Cash and CD's	0.00	0.00	0.00	0.00
W40-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
W40-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	0.00	0.00	0.00	0.00
		=====	=====	=====	=====
<u>LIABILITIES</u>					
W40-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
W40-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
W40-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
W40-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
W40-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
W40-3.915	Assigned Unapp Fund Balance	0.00	0.00	0.00	0.00
W40-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	0.00	0.00	0.00	0.00
	TOTAL LIABILITIES & EQUITY	0.00	0.00	0.00	0.00
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

W50-Buttonvale Water Disrtict

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
W50-1.200	Claim on Pooled Cash and CD's	0.00	0.00	0.00	0.00
W50-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
W50-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	0.00	0.00	0.00	0.00
		=====	=====	=====	=====
<u>LIABILITIES</u>					
W50-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
W50-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
W50-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
W50-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
W50-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
W50-3.915	Assigned Unapp Fund Balance	0.00	0.00	0.00	0.00
W50-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	0.00	0.00	0.00	0.00
	TOTAL LIABILITIES & EQUITY	0.00	0.00	0.00	0.00
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

W60-Milnerfield Water Dist

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
W60-1.200	Claim on Pooled Cash and CD's	0.00	0.00	0.00	0.00
W60-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
W60-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	0.00	0.00	0.00	0.00
		=====	=====	=====	=====
<u>LIABILITIES</u>					
W60-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
W60-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
W60-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
W60-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
W60-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
W60-3.915	Assigned Unapp Fund Balance	0.00	0.00	0.00	0.00
W60-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	0.00	0.00	0.00	0.00
	TOTAL LIABILITIES & EQUITY	0.00	0.00	0.00	0.00
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

W70-Mycenae Water Disrtict

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
W70-1.200	Claim on Pooled Cash and CD's	0.00	0.00	0.00	0.00
W70-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
W70-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	0.00	0.00	0.00	0.00
		=====	=====	=====	=====
<u>LIABILITIES</u>					
W70-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
W70-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
W70-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
W70-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
W70-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
W70-3.915	Assigned Unapp Fund Balance	0.00	0.00	0.00	0.00
W70-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	0.00	0.00	0.00	0.00
	TOTAL LIABILITIES & EQUITY	0.00	0.00	0.00	0.00
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

W80-Schepp Water District

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
W80-1.200	Claim on Pooled Cash and CD's	10.53CR	85.73	85.73	75.20
W80-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
W80-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	10.53CR	85.73	85.73	75.20
		=====	=====	=====	=====
<u>LIABILITIES</u>					
W80-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
W80-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
W80-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
W80-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
W80-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
W80-3.915	Assigned Unapp Fund Balance	10.53	0.00	0.00	10.53
W80-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	85.73CR	85.73CR	85.73CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	10.53	85.73CR	85.73CR	75.20CR
	TOTAL LIABILITIES & EQUITY	10.53	85.73CR	85.73CR	75.20CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: JANUARY 31ST, 2023

W90-Watervale Water District

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
W90-1.200	Claim on Pooled Cash and CD's	4,684.97	81.09	81.09	4,766.06
W90-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
W90-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL ASSETS		4,684.97	81.09	81.09	4,766.06
		=====	=====	=====	=====
<u>LIABILITIES</u>					
W90-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
W90-2.626	BAN's Payable	0.00	0.00	0.00	0.00
W90-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL LIABILITIES		0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
W90-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
W90-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
W90-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
W90-3.915	Assigned Unapp Fund Balance	4,684.97CR	0.00	0.00	4,684.97CR
W90-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
TOTAL REVENUES		0.00	81.09CR	81.09CR	81.09CR
TOTAL REVENUES		<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL FUND EQUITY		4,684.97CR	81.09CR	81.09CR	4,766.06CR
TOTAL LIABILITIES & EQUITY		4,684.97CR	81.09CR	81.09CR	4,766.06CR
		=====	=====	=====	=====

MONTHLY REPORT OF SUPERVISOR

TO THE TOWN BOARD OF THE TOWN OF MANLIUS

Pursuant to Section 125 of the Town Law, I hereby render the following detailed statement of all moneys received and disbursed by me during the month of January 2023

Dated: 3/13/2023

SUPERVISOR

Cash Balance Report	December	Net Change	January
Cash in Pooled Checking/Savings	3,115,989	-493,846	2,622,143
M&T Savings	163	0	163
Petty Cash	500	0	500
Petty Cash - Court	50	0	50
A00 General Townwide	3,116,701	-493,846	2,622,856
Cash in Pooled Checking/Savings	250,206	140,315	390,521
B00 General Part Town	250,206	140,315	390,521
Cash in Pooled Checking/Savings	1,952	0	1,952
M&T Savings	6,303	5	6,309
M&T Savings-AED/Donations	3,276	3	3,279
M&T Savings-Equipment	0	0	0
M&T Savings-Stop DWI	48,591	18,085	66,676
CM1 Police Special Rev.	60,122	18,093	78,215
Cash in Pooled Checking/Savings	0	0	0
M&T Savings	4,763	4	4,767
CM2 Flood Water Study	4,763	4	4,767
Cash in Pooled Checking/Savings	239	0	239
M&T Savings	10,882	9	10,891
CM3 Sustainable Manlius	11,121	9	11,130
Cash in Pooled Checking/Savings	0	0	0
M&T Savings-DWI Arraignments	3,301	293	3,594
CM4 Court Special Rev.	3,301	293	3,594
M&T Savings	46,490	40	46,529
CM5 Parkland Trust	46,490	40	46,529
Cash in Pooled Checking/Savings	1,558,049	2,091,859	3,649,908
DA0 Highway Townwide	1,558,049	2,091,859	3,649,908
Cash in Pooled Checking/Savings	1,352,723	1,984,882	3,337,605
DB0 Highway Part Town	1,352,723	1,984,882	3,337,605
Cash in Pooled Checking/Savings	0	0	0
M&T Savings	20,600	21	20,621
HA0 Landfill Capital Fund	20,600	21	20,621
Cash in Pooled Checking/Savings	0	0	0
M&T Savings	0	0	0
HB0 Watervale Rd. Water Ext.	0	0	0
Cash in Pooled Checking/Savings	4	0	4
M&T Savings	4,543	0	4,543

Cash Balance Report	December	Net Change	January
HD0 Thompson Sewer Dist.	4,547	0	4,547
Cash in Pooled Checking/Savings	340	153	493
M&T Savings	0	0	0
HE0 Salt Storage Facility	340	153	493
Cash in Pooled Checking/Savings	28,849	36	28,884
HG0 Highway Garage Roof	28,849	36	28,884
Cash in Pooled Checking/Savings			
HW0 Town Hall Windows			
Cash in Pooled Checking/Savings	257,824	66,005	323,830
SD1 Consolidated Drainage #1	257,824	66,005	323,830
Cash in Pooled Checking/Savings	234,824	34,511	269,335
SD2 Consolidated Drainage #2	234,824	34,511	269,335
Cash in Pooled Checking/Savings	385,380	85,912	471,292
SD3 Consolidated Drainage #3	385,380	85,912	471,292
Cash in Pooled Checking/Savings	2,926	1,994,117	1,997,043
SF1 Fayetteville Fire Protection	2,926	1,994,117	1,997,043
Cash in Pooled Checking/Savings	11,027	1,582,486	1,593,512
SF2 Manlius Fire Protection	11,027	1,582,486	1,593,512
Cash in Pooled Checking/Savings	1,741	1,241,736	1,243,477
SF3 Minoa Fire Protection	1,741	1,241,736	1,243,477
Cash in Pooled Checking/Savings	11	238,815	238,826
SF4 Kirkville Fire Protection	11	238,815	238,826
Cash in Pooled Checking/Savings	7,144	23,247	30,391
SL1 Overhead Lighting	7,144	23,247	30,391
Cash in Pooled Checking/Savings	9,188	30,560	39,748
SL2 Underground Lighting	9,188	30,560	39,748
Cash in Pooled Checking/Savings	4,651	1,592	6,243
SL3 Entry Lighting	4,651	1,592	6,243
Cash in Pooled Checking/Savings	360	9,299	9,659
SL4 Garden Park Lighting	360	9,299	9,659
Cash in Pooled Checking/Savings	24,960	34,326	59,286
SL5 Ratnour Bridge Lighting	24,960	34,326	59,286
Cash in Pooled Checking/Savings	69,501	2,282,590	2,352,091
SR1 Manlius Trash Dist	69,501	2,282,590	2,352,091
Cash in Pooled Checking/Savings	11,059	291,947	303,006
SR2 Manlius Brush Dist	11,059	291,947	303,006
Cash in Pooled Checking/Savings	25,196	244	25,439
SS1 Manlius Sewer Dist	25,196	244	25,439

Cash Balance Report	December	Net Change	January
Cash in Pooled Checking/Savings	5,608	18,465	24,073
SS2 Thompson Sewer Dist	5,608	18,465	24,073
Cash in Pooled Checking/Savings	279	71,997	72,276
SS3 Megnin Farms Sewer	279	71,997	72,276
Cash in Pooled Checking/Savings	32,971	1,047	34,017
SW1 Manlius Con Water Supply	32,971	1,047	34,017
Cash in Pooled Checking/Savings	10,448	61,005	71,454
SW2 Manlius Con Water Dist	10,448	61,005	71,454
Cash in Pooled Checking/Savings	43,464	11,232	54,696
SW3 Skyridge Water Dist	43,464	11,232	54,696
Cash in Pooled Checking/Savings	12,303	3,096	15,398
SW4 Highbridge Water Dist	12,303	3,096	15,398
Cash in Pooled Checking/Savings	142,833	544	143,377
TA1 Trust and Agency 1	142,833	544	143,377
Cash in Pooled Checking/Savings	61,481	69	61,549
M&T Savings-Bond and Bail Deposit	34,473	0	34,473
M&T Savings-Currency Property	39,995	0	39,995
M&T Savings-Escrow Deposits	134,296	-248	134,048
M&T Savings-Police	0	0	0
M&T Savings-Quarry Deposit	0	0	0
M&T Savings-Solar Deposits	301,164	256	301,420
TA2 Trust and Agency 2	571,408	76	571,485
Cash in Pooled Checking/Savings	-11	86	75
W80 Schepp Water Dist	-11	86	75
Cash in Pooled Checking/Savings	4,685	81	4,766
W90 Watervale Water Dist	4,685	81	4,766
Town Total:	8,327,593	11,826,874	20,154,466

Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
1/1 -			1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var - %	
A00 General Townwide										
Revenue										
Real Property Tax										
A00	4.1001	Real Property Taxes	8,420,961	100%	8,393,921	-27,040	0%	8,420,961	27,040	0% a
A00	4.1081	Other Payments in Lieu of Tax	7,630	66%	11,559	3,929	34%	11,559	0	0% b
A00	4.1090	Penalties & Interest	0	0%	73,000	73,000	100%	73,000	0	0% b
Real Property Tax Total:			8,428,591	99%	8,478,480	49,889	1%	8,505,520	27,040	0%
General Government										
A00	4.1170	Franchise Fees	0	0%	320,000	320,000	100%	320,000	0	0% b
A00	4.1520	Police Fees	0	100%	0	0	0%	0	0	100% b
A00	4.1589	Forfeited Property	0	100%	0	0	0%	0	0	100% b
A00	4.1590	OMFU Mutual Aid	0	100%	0	0	0%	0	0	100% b
A00	4.1591	Misc. Race Reimbursement	0	100%	0	0	0%	0	0	100% b
A00	4.1592	YMCA	0	100%	0	0	0%	0	0	100% b
General Government Total:			0	0%	320,000	320,000	100%	320,000	0	0%
Departmental Income										
A00	4.1255	Clerk Fees	177	4%	4,000	3,823	96%	4,000	0	0% b
A00	4.1550	Dog Control Fees	0	100%	0	0	0%	0	0	100% b
Departmental Income Total:			177	4%	4,000	3,823	96%	4,000	0	0%
Public Safety										
A00	4.2260	Public Safety Services	84,470	8%	1,054,935	970,465	92%	1,054,935	0	0% b
Public Safety Total:			84,470	8%	1,054,935	970,465	92%	1,054,935	0	0%
Police - Special Items (Revenue)										
A00	4.1593	Stop DWI - Quarterly Payments	0	0%	5,125	5,125	100%	5,125	0	0% b
Police - Special Items (Revenue) Total:			0	0%	5,125	5,125	100%	5,125	0	0%
Recreation Revenue										
A00	4.2001	Park & Rec Charges	0	0%	70,000	70,000	100%	70,000	0	0% b
Recreation Revenue Total:			0	0%	70,000	70,000	100%	70,000	0	0%
Intergovernmental Charges										
A00	4.2350	Youth Services, Recreation	0	0%	2,634	2,634	100%	2,634	0	0% b
Intergovernmental Charges Total:			0	0%	2,634	2,634	100%	2,634	0	0%
Use of Money and Property										
A00	4.2401	Interest & Earnings	5,444	181%	3,000	-2,444	0%	5,444	2,444	81% a
A00	4.2450	Credit Card Rebates	0	100%	0	0	0%	0	0	100% b
Use of Money and Property Total:			5,444	181%	3,000	-2,444	-81%	5,444	2,444	81%
Licenses and Permits										
A00	4.2530	Games of Chance - License	10	5%	200	190	95%	200	0	0% b
A00	4.2544	Dog License	1,344	6%	21,000	19,656	94%	21,000	0	0% b

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

3/13/2023

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
1/1 - 1/31/2023			8%		Annual	Remaining	92%	Actual	Budget Var - %	
A00	4.2550	Dog Control Contract	0	100%	0	0	0%	0	0	100% b
Licenses and Permits Total:			1,354	6%	21,200	19,846	94%	21,200	0	0%
<u>Fines and Forfeitures</u>										
A00	4.2610	Fines/Forfeited Bail	6,072	10%	60,000	53,928	90%	60,000	0	0% b
Fines and Forfeitures Total:			6,072	10%	60,000	53,928	90%	60,000	0	0%
<u>Sale of Property and Comp Loss</u>										
A00	4.2655	Minor Sales	0	100%	0	0	0%	0	0	100% b
A00	4.2665	Sale of Town Equipment	1,000	18%	5,500	4,500	82%	5,500	0	0% b
A00	4.2680	Insurance Recoveries	0	100%	0	0	0%	0	0	100% b
Sale of Property and Comp Loss Total:			1,000	18%	5,500	4,500	82%	5,500	0	0%
<u>Miscellaneous Revenue</u>										
A00	4.2700	Medicare Part D Reimbursement	0	0%	20,000	20,000	100%	20,000	0	0% b
A00	4.2701	Refunds of Prior Year Expend	0	100%	0	0	0%	0	0	100% b
A00	4.2705	Gifts & Donations	0	100%	0	0	0%	0	0	100% b
A00	4.2750	AIM - Related Payments	0	100%	0	0	0%	0	0	100% b
A00	4.2770	Unclassified Revenues	300	100%	0	-300	0%	300	300	100% a
Miscellaneous Revenue Total:			300	2%	20,000	19,700	99%	20,300	300	2%
<u>State Aid - General</u>										
A00	4.3001	Assessment Mgt Aid AIM	0	0%	111,763	111,763	100%	111,763	0	0% b
A00	4.3005	Mortgage Tax	0	0%	650,000	650,000	100%	650,000	0	0% b
A00	4.3040	Cyclical Reassessment Aid	0	100%	0	0	0%	0	0	100% b
A00	4.3050	Records Management	0	100%	0	0	0%	0	0	100% b
A00	4.3089	Railroad Infrastructure Act	0	100%	0	0	0%	0	0	100% b
A00	4.3089.300	Personnel Safety Grant	0	100%	0	0	0%	0	0	100% b
A00	4.3089.T	Technology Grant - GIS	0	100%	0	0	0%	0	0	100% b
A00	4.3097	Highway Garage Roof-Valeski G	0	100%	0	0	0%	0	0	100% b
A00	4.3820	Youth Programs, PD	0	0%	3,283	3,283	100%	3,283	0	0% b
A00	4.3825	NYS Grant - Boiler Replacement	0	100%	0	0	0%	0	0	100% b
A00	4.3830	NYS Grant - Window Replaceme	0	100%	0	0	0%	0	0	100% b
A00	4.3835	NYS - SAM Grant	0	100%	0	0	0%	0	0	100% b
A00	4.4286	CARES Act Education St. Fund	0	100%	0	0	0%	0	0	100% b
State Aid - General Total:			0	0%	765,046	765,046	100%	765,046	0	0%
<u>State Aid - Courts</u>										
A00	4.3389.308	JCAP Court Security Grant	0	100%	0	0	0%	0	0	100% b
State Aid - Courts Total:			0	100%	0	0	100%	0	0	100%
<u>State Aid - Police</u>										
A00	4.3389.302	Traffic Safety Grant - BUNY	0	0%	18,806	18,806	100%	18,806	0	0% b
A00	4.3389.303	Bullet Proof Vest Partnership	0	0%	2,703	2,703	100%	2,703	0	0% b
A00	4.3389.304	Traffic Safety Grant - CPSS	0	0%	2,100	2,100	100%	2,100	0	0% b
A00	4.3389.305	License Plate Reader Grant	0	100%	0	0	0%	0	0	100% b

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

3/13/2023

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
1/1 - 1/31/2023			8%		Annual	Remaining	92%	Actual	Budget Var - %	
A00	4.3389.306	Traffic Safety Grant - STEP	0	100%	0	0	0%	0	0	100% b
A00	4.3389.309	Law Enforcement Grant	0	100%	0	0	0%	0	0	100% b
A00	4.3389.310	SLETPP Grant (2010)	0	100%	0	0	0%	0	0	100% b
A00	4.3389.311	Byrne JAG Grant	0	100%	0	0	0%	0	0	100% b
A00	4.3389.312	NIBRS Grant	0	100%	0	0	0%	0	0	100% b
A00	4.3389.407	Grant - Air Cards/Cameras	0	100%	0	0	0%	0	0	100% b
State Aid - Police Total:			0	0%	23,609	23,609	100%	23,609	0	0%
Revenue 6000-6999										
A00	4.4089	Coronavirus Local Fiscal Recov	0	0%	935,000	935,000	100%	935,000	0	0% b
Revenue 6000-6999 Total:			0	0%	935,000	935,000	100%	935,000	0	0%
BANs										
A00	4.5730	Bond Anticipation Notes	0	100%	0	0	0%	0	0	100% b
BANs Total:			0	100%	0	0	100%	0	0	100%
Appropriations										
A00	4.9600	Appropriations	0	0%	870,000	870,000	100%	870,000	0	0% b
A00	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
A00	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	0%	870,000	870,000	100%	870,000	0	0%
Revenue Total:			8,527,408	67%	12,638,529	4,111,121	33%	12,668,313	29,784	0%
Expense										
Town Board										
A00	5.1010.100	Town Board - Personal Services	6,274	8%	81,562	75,288	92%	81,562	0	0% 2
A00	5.1010.400	Town Board - Contractual	-350	-2%	22,500	22,850	102%	22,500	0	0% b
A00	5.1010.402	Town Board - Seminar/Conferen	0	0%	5,500	5,500	100%	5,500	0	0% b
A00	5.1010.405	Town Board - Information Tech	0	100%	0	0	0%	0	0	100% b
Town Board Total:			5,924	5%	109,562	103,638	95%	109,562	0	0%
Justices										
A00	5.1110.100	Justices - Personal Services	15,117	7%	223,536	208,419	93%	196,521	-27,015	-12% 2
A00	5.1110.200	Justices - Equipment	0	100%	0	0	0%	0	0	100% b
A00	5.1110.400	Justices - Contractual	0	0%	600	600	100%	600	0	0% b
A00	5.1110.401	Justices - Office Supplies	90	3%	2,800	2,710	97%	2,800	0	0% b
A00	5.1110.402	Justices - Seminars/Conference	0	0%	5,500	5,500	100%	5,500	0	0% b
A00	5.1110.403	Justices - Associations/Dues	0	0%	675	675	100%	675	0	0% b
A00	5.1110.404	Justices - Books/Publications	0	0%	328	328	100%	328	0	0% b
A00	5.1110.405	Justice-Information Technology	0	100%	0	0	0%	0	0	100% b
A00	5.1110.407	Justice - Copier Lease	0	100%	0	0	0%	0	0	100% b
A00	5.1110.408	Justice - Printing	0	100%	0	0	0%	0	0	100% b
A00	5.1110.414	Justice - Credit Card	0	100%	0	0	0%	0	0	100% b
Justices Total:			15,207	7%	233,439	218,232	93%	206,424	-27,015	-12%

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget		Projected Year End		
1/1 - 1/31/2023			8%		Annual	Remaining	92%	Actual	Budget Var - %
<u>Supervisor</u>									
A00	5.1220.100	Supervisor - Personal Services	12,596	5%	263,508	250,912	95%	163,748	-99,760 -38% 2
A00	5.1220.200	Supervisor - Equipment	0	100%	0	0	0%	0	0 100% b
A00	5.1220.400	Supervisor - Contractual	3,333	33%	10,000	6,667	67%	10,000	0 0% b
A00	5.1220.401	Supervisor - Office Supplies	335	11%	3,000	2,665	89%	3,000	0 0% b
A00	5.1220.402	Supervisor - Seminar/Conferenc	-1,500	-21%	7,000	8,500	121%	7,000	0 0% b
A00	5.1220.403	Supervisor - Associations/Dues	1,650	63%	2,600	950	37%	2,600	0 0% b
A00	5.1220.404	Supervisor - Books/Publication	0	100%	0	0	0%	0	0 100% b
A00	5.1220.405	Supervisor - Information Techn	0	0%	8,000	8,000	100%	8,000	0 0% b
A00	5.1220.450	Supervisor - Contractual Service	-1,500	-43%	3,500	5,000	143%	3,500	0 0% b
A00	5.1220.480	Supervisor - Payroll	2,692	7%	37,500	34,808	93%	37,500	0 0% b
Supervisor Total:			17,606	5%	335,108	317,502	95%	235,348	-99,760 -30%
<u>Receiver of Taxes</u>									
A00	5.1330.100	Receiver - Personal Services	9,451	10%	94,925	85,474	90%	122,863	27,938 29% 2
A00	5.1330.200	Receiver of Taxes- Equipment	0	0%	2,045	2,045	100%	2,045	0 0% b
A00	5.1330.400	Receiver of Taxes - Contract	0	0%	450	450	100%	450	0 0% b
A00	5.1330.401	Receiver of Taxes -Office Sup	97	3%	3,172	3,075	97%	3,172	0 0% b
A00	5.1330.402	Receiver of Taxes - Seminars	0	0%	1,015	1,015	100%	1,015	0 0% b
A00	5.1330.403	Receiver of Taxes- Assoc/Dues	40	100%	40	0	0%	40	0 0% b
A00	5.1330.405	Receiver of Taxes - IT	1,500	50%	3,000	1,500	50%	3,000	0 0% b
A00	5.1330.408	Receiver of Taxes- Print/Ads	53	48%	110	57	52%	110	0 0% b
Receiver of Taxes Total:			11,141	11%	104,757	93,616	89%	132,695	27,938 27%
<u>Assessors</u>									
A00	5.1355.100	Assessor -Personal Services	20,107	8%	261,396	241,289	92%	261,391	-5 0% 2
A00	5.1355.200	Assessors - Equipment	0	0%	500	500	100%	500	0 0% b
A00	5.1355.400	Assessors - Contractual	0	0%	1,100	1,100	100%	1,100	0 0% b
A00	5.1355.401	Assessors - Office Supplies	124	5%	2,300	2,176	95%	2,300	0 0% b
A00	5.1355.402	Assessors - Seminars/Conferen	0	0%	6,800	6,800	100%	6,800	0 0% b
A00	5.1355.403	Assessors - Associations/Dues	45	6%	800	755	94%	800	0 0% b
A00	5.1355.405	Assessors - Information Tech	1,950	98%	2,000	50	2%	2,000	0 0% b
A00	5.1355.408	Assessors - Printing Tax Bills	0	0%	29,000	29,000	100%	29,000	0 0% b
Assessors Total:			22,226	7%	303,896	281,670	93%	303,891	-5 0%
<u>Board of Assessmnt Revie</u>									
A00	5.1356.100	BOA Reveiw - Personal Services	0	0%	12,300	12,300	100%	12,300	0 0% b
Board of Assessmnt Revie Total:			0	0%	12,300	12,300	100%	12,300	0 0%
<u>Town Clerk</u>									
A00	5.1410.100	Town Clerk- Personal Services	12,149	9%	135,176	123,027	91%	157,937	22,761 17% 2
A00	5.1410.200	Town Clerk - Equipment	0	100%	0	0	0%	0	0 100% b
A00	5.1410.400	Town Clerk - Contractual	0	100%	0	0	0%	0	0 100% b
A00	5.1410.401	Town Clerk - Office Supplies	0	0%	2,200	2,200	100%	2,200	0 0% b
A00	5.1410.402	Town Clerk - Seminars/Conferen	-1,500	-30%	4,945	6,445	130%	4,945	0 0% b

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1/1 - 1/31/2023			8%		Annual	Remaining	92%	Actual	Budget Var - %	
A00	5.1410.403	Town Clerk - Association/Dues	0	0%	372	372	100%	372	0	0% b
A00	5.1410.404	Town Clerk - Books/Publication	0	100%	0	0	0%	0	0	100% b
A00	5.1410.405	Town Clerk - Information Tech	0	0%	2,700	2,700	100%	2,700	0	0% b
A00	5.1410.408	Town Clerk - Printing/Ads	430	36%	1,200	770	64%	1,200	0	0% b
A00	5.1410.409	Town Clerk - Postage	0	100%	0	0	0%	0	0	100% b
A00	5.1410.418	Town Clerk - Filing Fees	0	0%	100	100	100%	100	0	0% b
Town Clerk Total:			11,079	8%	146,693	135,614	92%	169,454	22,761	16%
<u>Attorney</u>										
A00	5.1420.100	Attorney - Personnel Services	0	100%	0	0	0%	0	0	100% m
A00	5.1420.400	Attorney - Contractual	0	100%	0	0	0%	0	0	100% b
A00	5.1420.401	Attorney - Office Supplies	0	100%	0	0	0%	0	0	100% b
A00	5.1420.402	Attorney - Seminars/Conference	0	100%	0	0	0%	0	0	100% b
A00	5.1420.403	Attorney - Associations	0	100%	0	0	0%	0	0	100% b
A00	5.1420.404	Attorney - Books/Publications	0	100%	0	0	0%	0	0	100% b
A00	5.1420.405	Attorney - Information Tech	0	100%	0	0	0%	0	0	100% b
A00	5.1420.410	Attorney - Hwy Union Contract	0	100%	0	0	0%	0	0	100% b
A00	5.1420.420	Attorney - PBA Contractual	0	100%	0	0	0%	0	0	100% b
A00	5.1420.481	Attorney - Litigation	2,006	8%	25,000	22,994	92%	25,000	0	0% b
A00	5.1420.482	Attorney - Employment Matters	0	0%	25,000	25,000	100%	25,000	0	0% b
A00	5.1420.483	Attorney - Town Board	5,500	8%	66,000	60,500	92%	66,000	0	0% b
Attorney Total:			7,506	6%	116,000	108,494	94%	116,000	0	0%
<u>Safety Grant</u>										
A00	5.1430.100	Safety Grant - Personal Serv	77	100%	0	-77	0%	77	77	100% a
A00	5.1430.400	Safety Grant - Contractual	0	100%	0	0	0%	0	0	100% b
Safety Grant Total:			77	100%	0	-77	100%	77	77	100%
<u>Engineer</u>										
A00	5.1440.100	Engineer - Personal Services	0	100%	0	0	0%	0	0	100% m
A00	5.1440.400	Engineer - Contractual	2,490	1%	325,000	322,510	99%	325,000	0	0% b
A00	5.1440.402	Engineer - Seminars/Conference	0	100%	0	0	0%	0	0	100% b
A00	5.1440.405	Engineer - Information Tech	0	100%	0	0	0%	0	0	100% b
A00	5.1440.450	Engineer - Contractual Service	426	2%	18,000	17,574	98%	18,000	0	0% b
Engineer Total:			2,916	1%	343,000	340,084	99%	343,000	0	0%
<u>Records Management</u>										
A00	5.1460.100	Record Managemnt - Personal S	0	0%	4,000	4,000	100%	0	-4,000	-100% 2
A00	5.1460.200	Record Managemnt - Equipment	0	100%	0	0	0%	0	0	100% b
A00	5.1460.400	Record Managemnt - Contractua	-6,500	-129%	5,027	11,527	229%	5,027	0	0% b
Records Management Total:			-6,500	-72%	9,027	15,527	172%	5,027	-4,000	-44%
<u>Buildings</u>										
A00	5.1620.100	Buildings - Personal Services	1,671	8%	22,142	20,471	92%	21,723	-419	-2% 2
A00	5.1620.101	Buildings - Personal Svc Safety	0	100%	0	0	0%	0	0	100% 2
A00	5.1620.200	Buildings - Equipment	6,382	21%	30,000	23,618	79%	30,000	0	0% b

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1/1 -			1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var - %	
A00	5.1620.400	Buildings - Contractual	2,603	40%	6,500	3,897	60%	6,500	0	0% b
A00	5.1620.405	Buildings - Information Tech	16,443	4%	389,764	373,321	96%	389,764	0	0% b
A00	5.1620.420	Buildings - Gas/Electric	61	0%	35,000	34,939	100%	35,000	0	0% b
A00	5.1620.421	Buildings - Phone	1,129	8%	14,000	12,871	92%	14,000	0	0% b
A00	5.1620.422	Buildings - Water	0	0%	950	950	100%	950	0	0% b
A00	5.1620.423	Buildings - Security Service	67	7%	900	833	93%	900	0	0% b
A00	5.1620.424	Buildings - Internet	121	5%	2,500	2,379	95%	2,500	0	0% b
A00	5.1620.426	Buildings - Dumpster	0	100%	0	0	0%	0	0	100% b
A00	5.1620.430	Buildings - Cleaning	1,408	9%	16,560	15,152	91%	16,560	0	0% b
A00	5.1620.431	Buildings - Landscaping	0	0%	6,000	6,000	100%	6,000	0	0% b
A00	5.1620.440	Buildings - Repairs	0	0%	2,500	2,500	100%	2,500	0	0% b
A00	5.1620.446	Buildings - Maintenance Cont	0	100%	0	0	0%	0	0	100% b
A00	5.1620.450	Buildings - Pest Control	0	0%	700	700	100%	700	0	0% b
A00	5.1620.485	Buildings - Snow Removal	720	29%	2,500	1,780	71%	2,500	0	0% b
Buildings Total:			30,605	6%	530,016	499,411	94%	529,597	-419	0%
<u>Community Center</u>										
A00	5.1630.400	Community Center - Contractual	0	100%	0	0	0%	0	0	100% b
A00	5.1630.420	Community Center - Gas/Elect	0	100%	0	0	0%	0	0	100% b
A00	5.1630.422	Community Center -Water	0	100%	0	0	0%	0	0	100% b
A00	5.1630.440	Community Center -Repairs	0	100%	0	0	0%	0	0	100% b
A00	5.1630.450	Community Center - Pest Contro	0	100%	0	0	0%	0	0	100% b
Community Center Total:			0	100%	0	0	100%	0	0	100%
<u>Central Garage</u>										
A00	5.1640.200	Central Garage - Capital	0	100%	0	0	0%	0	0	100% b
A00	5.1640.400	Central Garage - Contractual	0	100%	0	0	0%	0	0	100% b
A00	5.1640.410	Central Garage - Gasoline	3,771	4%	100,000	96,229	96%	100,000	0	0% b
A00	5.1640.411	Central Garage - Town Veh Man	987	22%	4,500	3,513	78%	4,500	0	0% b
Central Garage Total:			4,758	5%	104,500	99,742	95%	104,500	0	0%
<u>Central Printing</u>										
A00	5.1670.400	Central Printing - Contractual	0	100%	0	0	0%	0	0	100% b
A00	5.1670.401	Central Printing - Office Sply	18	0%	18,500	18,482	100%	18,500	0	0% b
A00	5.1670.404	Central Printing - Books/Public	0	0%	1,800	1,800	100%	1,800	0	0% b
A00	5.1670.407	Central Printing - Copier Lease	552	8%	6,800	6,248	92%	6,800	0	0% b
A00	5.1670.408	Central Printing - Post Meter	0	0%	2,000	2,000	100%	2,000	0	0% b
A00	5.1670.409	Central Printing - Postage	5,000	14%	35,000	30,000	86%	35,000	0	0% b
A00	5.1670.446	Central Printing - Maint.Contr	0	100%	0	0	0%	0	0	100% b
Central Printing Total:			5,570	9%	64,100	58,530	91%	64,100	0	0%
<u>Special Items</u>										
A00	5.1910.400	Unallocated Insurance	230,605	105%	220,000	-10,605	0%	230,605	10,605	5% a
A00	5.1920.400	Municipal Association Dues	0	100%	0	0	0%	0	0	100% b
A00	5.1930.400	Judgments & Claims	0	0%	15,000	15,000	100%	15,000	0	0% b

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1/1 - 1/31/2023			8%		Annual	Remaining	92%	Actual	Budget Var - %	
A00	5.1950.400	Taxes on Town Property	527	53%	1,000	473	47%	1,000	0	0% b
A00	5.1990.400	Contingent Account	0	100%	0	0	0%	0	0	100% b
Special Items Total:			231,132	98%	236,000	4,868	2%	246,605	10,605	4%
Police										
A00	5.3120.100	Police - Personal Services	269,597	7%	3,673,787	3,404,190	93%	3,673,787	0	0% b
A00	5.3120.101	Police - Overtime Pay	27,414	9%	299,339	271,925	91%	299,339	0	0% b
A00	5.3120.102	Police - Longevity Pay	0	0%	42,708	42,708	100%	42,708	0	0% b
A00	5.3120.103	Police - Holiday Pay	0	0%	133,720	133,720	100%	133,720	0	0% b
A00	5.3120.104	Police - Training Days	79,086	79%	100,322	21,236	21%	100,322	0	0% b
A00	5.3120.105	Police - Sick Time Buy Back	0	0%	116,004	116,004	100%	116,004	0	0% b
A00	5.3120.106	Police - Command Pay	8,790	63%	13,860	5,070	37%	13,860	0	0% b
A00	5.3120.107	Police - Incentive Pay	12,300	85%	14,400	2,100	15%	14,400	0	0% b
A00	5.3120.108	Police - Clothing Allowance	1,600	28%	5,760	4,160	72%	5,760	0	0% b
A00	5.3120.109	Police - Secty to Committee	0	0%	600	600	100%	600	0	0% b
A00	5.3120.200	Police - Equipment	-3,000	-2%	165,500	168,500	102%	165,500	0	0% b
A00	5.3120.400	Police - Contractual	-721	-2%	46,781	47,502	102%	46,781	0	0% b
A00	5.3120.401	Police - Office Supplies	-3,029	-20%	15,285	18,314	120%	15,285	0	0% b
A00	5.3120.402	Police - Seminars/Conference	2,375	7%	32,225	29,850	93%	32,225	0	0% b
A00	5.3120.403	Police - Associations/Dues	490	15%	3,360	2,870	85%	3,360	0	0% b
A00	5.3120.404	Police - Books/Publications	503	6%	8,373	7,870	94%	8,373	0	0% b
A00	5.3120.405	Police - Info Tech/Electronic	160	1%	12,750	12,590	99%	12,750	0	0% b
A00	5.3120.409	Police - Postage	0	0%	1,200	1,200	100%	1,200	0	0% b
A00	5.3120.412	Police - Vehicle Repair	-23,371	-20%	119,236	142,607	120%	119,236	0	0% b
A00	5.3120.421	Police - Phone	2,376	7%	31,820	29,444	93%	31,820	0	0% b
A00	5.3120.423	Police - Security Service	60	14%	420	360	86%	420	0	0% b
A00	5.3120.424	Police - Building Lease	0	0%	98,115	98,115	100%	98,115	0	0% b
A00	5.3120.425	Police - Building Maintenance	0	0%	2,650	2,650	100%	2,650	0	0% b
A00	5.3120.430	Police - Cleaning Supplies	0	0%	3,500	3,500	100%	3,500	0	0% b
A00	5.3120.446	Police - Maintenance Contract	6,920	11%	63,651	56,731	89%	63,651	0	0% b
A00	5.3120.447	Police - Vehicle Lighting	-10,684	100%	0	10,684	0%	0	0	100% b
A00	5.3120.448	Police - Uniforms & Cleaning	-1,906	-3%	68,879	70,785	103%	68,879	0	0% b
A00	5.3120.460	Police - Tuition Reimbursement	0	0%	10,000	10,000	100%	10,000	0	0% b
A00	5.3120.461	Police - Accreditation	0	0%	40,461	40,461	100%	40,461	0	0% b
A00	5.3120.462	Police - Community Relations	0	0%	4,550	4,550	100%	4,550	0	0% b
A00	5.3120.463	Police - CPSS	0	0%	2,100	2,100	100%	2,100	0	0% b
A00	5.3120.464	Police - Protection Gear	3,569	6%	59,043	55,474	94%	59,043	0	0% b
A00	5.3120.465	Police - Forensic	1,170	3%	44,828	43,658	97%	44,828	0	0% b
Police Total:			373,699	7%	5,235,227	4,861,528	93%	5,235,227	0	0%
Traffic Control										
A00	5.3310.100	Traffic Control - Personal Srv	962	5%	20,000	19,038	95%	20,000	0	0% b
A00	5.3310.400	Traffic Control - Contractual	21	1%	3,060	3,039	99%	3,060	0	0% b
Traffic Control Total:			983	4%	23,060	22,077	96%	23,060	0	0%

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1/1 - 1/31/2023			8%		Annual	Remaining	92%	Actual	Budget Var - %
<u>Dog Control</u>									
A00	5.3510.100	Dog Control - Personnel Serv	0	100%	0	0	0%	0	0 100% b
A00	5.3510.400	Dog Control - Contractual	0	0%	300	300	100%	300	0 0% b
A00	5.3510.401	Dog Control - Office Supplies	0	0%	700	700	100%	700	0 0% b
A00	5.3510.402	Dog Control - Litigation	0	100%	0	0	0%	0	0 100% b
A00	5.3510.421	Dog Control - Phone	0	100%	0	0	0%	0	0 100% b
A00	5.3510.450	Dog Control - Contract	36,059	86%	41,886	5,827	14%	41,886	0 0% b
A00	5.3510.491	Dog Control - Vet Services	0	100%	0	0	0%	0	0 100% b
Dog Control Total:			36,059	84%	42,886	6,827	16%	42,886	0 0%
<u>Transportation</u>									
A00	5.5010.100	Superintendent - Personal Serv	10,347	7%	149,511	139,164	93%	134,511	-15,000 -10% 2
A00	5.5010.400	Sup of Highways - Contractual	0	100%	0	0	0%	0	0 100% b
A00	5.5010.402	Sup of Highways - Conference	0	0%	1,600	1,600	100%	1,600	0 0% b
A00	5.5010.403	Sup of Highways - Associations	0	0%	350	350	100%	350	0 0% b
A00	5.5010.405	Sup of Highways - Engineer	0	0%	25,700	25,700	100%	25,700	0 0% b
Transportation Total:			10,347	6%	177,161	166,814	94%	162,161	-15,000 -8%
<u>Garage/Salt Storage</u>									
A00	5.5132.200	Garage - Equipment	0	0%	14,000	14,000	100%	14,000	0 0% b
A00	5.5132.400	Garage - Miscellaneous	26	0%	51,250	51,224	100%	51,250	0 0% b
A00	5.5132.405	Garage - Information Technolog	120	2%	7,645	7,525	98%	7,645	0 0% b
A00	5.5132.420	Garage - Gas/Electric	2,074	5%	39,200	37,126	95%	39,200	0 0% b
A00	5.5132.421	Garage - Phone	121	100%	0	-121	0%	121	121 100% a
A00	5.5132.422	Garage - Water	0	0%	1,850	1,850	100%	1,850	0 0% b
A00	5.5132.423	Garage - Fire Monitoring	0	0%	700	700	100%	700	0 0% b
A00	5.5132.425	Garage - Garage/Bldg Maint	4,928	2%	295,500	290,572	98%	295,500	0 0% b
A00	5.5132.426	Garage - Dumpster	482	8%	6,136	5,654	92%	6,136	0 0% b
A00	5.5132.430	Garage - Cleaning/Bathroom Spl	0	0%	3,500	3,500	100%	3,500	0 0% b
A00	5.5132.431	Garage - Landscaping	0	0%	150	150	100%	150	0 0% b
A00	5.5132.446	Garage - Maintenance Contracts	0	0%	3,000	3,000	100%	3,000	0 0% b
A00	5.5132.447	Garage - Supplies/Water Softner	0	0%	500	500	100%	500	0 0% b
Garage/Salt Storage Total:			7,751	2%	423,431	415,680	98%	423,552	121 0%
<u>Street Lighting</u>									
A00	5.5182.400	Street Lighting - Contractual	432	8%	5,500	5,068	92%	5,500	0 0% b
Street Lighting Total:			432	8%	5,500	5,068	92%	5,500	0 0%
<u>Veteran Services</u>									
A00	5.6510.400	Veteran Services - Contractual	0	0%	800	800	100%	800	0 0% b
Veteran Services Total:			0	0%	800	800	100%	800	0 0%
<u>Recreation</u>									
A00	5.7310.100	Recreation - Personal Services	14,886	5%	317,335	302,449	95%	317,335	0 0% b
A00	5.7310.400	Recreation - Contractual	0	100%	0	0	0%	0	0 100% b
A00	5.7310.401	Recreation - Office Supplies	0	0%	1,275	1,275	100%	1,275	0 0% b

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Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
1/1 -			1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var - %	
A00	5.7310.402	Recreation - Seminars/Conferen	0	0%	11,670	11,670	100%	11,670	0	0% b
A00	5.7310.403	Recreation - Associations/Dues	0	0%	1,050	1,050	100%	1,050	0	0% b
A00	5.7310.404	Recreation - Books/Publication	0	100%	0	0	0%	0	0	100% b
A00	5.7310.405	Recreation - Registration Progra	0	0%	3,600	3,600	100%	3,600	0	0% b
A00	5.7310.408	Recreation - Printing & Advert	27	1%	3,780	3,753	99%	3,780	0	0% b
A00	5.7310.410	Recreation - Program Expenses	72	0%	66,650	66,578	100%	66,650	0	0% b
A00	5.7310.415	Recreation - Mileage	0	0%	1,845	1,845	100%	1,845	0	0% b
A00	5.7310.421	Recreation - Phone	0	0%	1,550	1,550	100%	1,550	0	0% b
A00	5.7310.425	Recreation - Self Sustaining You	0	100%	0	0	0%	0	0	100% b
A00	5.7310.426	Recreation - Self Sustaining Adu	0	100%	0	0	0%	0	0	100% b
A00	5.7310.446	Recreation - Storage	0	100%	0	0	0%	0	0	100% b
Recreation Total:			14,985	4%	408,755	393,770	96%	408,755	0	0%
<u>Museum</u>										
A00	5.7450.400	Museum - Contractual	0	0%	8,000	8,000	100%	8,000	0	0% b
Museum Total:			0	0%	8,000	8,000	100%	8,000	0	0%
<u>Historian</u>										
A00	5.7510.100	Historian - Personal Services	0	100%	0	0	0%	0	0	100% b
A00	5.7510.400	Historian - Contractual	0	0%	4,000	4,000	100%	4,000	0	0% b
Historian Total:			0	0%	4,000	4,000	100%	4,000	0	0%
<u>Environmental Control</u>										
A00	5.8090.101	Environmental Cntrl - Personal	0	100%	0	0	0%	0	0	100% b
A00	5.8090.400	Environmental Cntrl - Contract	0	100%	0	0	0%	0	0	100% b
Environmental Control Total:			0	100%	0	0	100%	0	0	100%
<u>Cemeteries</u>										
A00	5.8810.400	Cemeteries - Contractual	0	0%	5,000	5,000	100%	5,000	0	0% b
Cemeteries Total:			0	0%	5,000	5,000	100%	5,000	0	0%
<u>Employee Benefits - NYS Retirement</u>										
A00	5.9010.800	NYS Retirement	151,380	100%	151,380	0	0%	151,380	0	0% b
Employee Benefits - NYS Retirement Total:			151,380	100%	151,380	0	0%	151,380	0	0%
<u>Employee Benefits - Fire-Police Retirement</u>										
A00	5.9015.800	Fire & Police Retirement	822,861	100%	822,861	0	0%	822,861	0	0% b
Employee Benefits - Fire-Police Retirement Total:			822,861	100%	822,861	0	0%	822,861	0	0%
<u>Employee Benefits - Health Ins</u>										
A00	5.9060.800	Health Insurance	186,598	9%	2,095,745	1,909,147	91%	2,095,745	0	0% b
Employee Benefits - Health Ins Total:			186,598	9%	2,095,745	1,909,147	91%	2,095,745	0	0%
<u>Employee Benefits - Ins Opt Out</u>										
A00	5.9061.800	Health Insurance Opt-Out	2,991	9%	35,000	32,009	91%	35,000	0	0% b
Employee Benefits - Ins Opt Out Total:			2,991	9%	35,000	32,009	91%	35,000	0	0%

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Budget Report - Fund Detail

			YTD Actual			Budget		Projected Year End		
1/1 -			1/31/2023	8%		Annual	Remaining	92%	Actual	Budget Var - %
<u>Employee Benefits - FICA</u>										
A00	5.9030.800	FICA	43,336	9%		457,921	414,585	91%	457,921	0 0% b
Employee Benefits - FICA Total:			43,336	9%		457,921	414,585	91%	457,921	0 0%
<u>Employee Benefits - Workers Comp</u>										
A00	5.9040.800	Workers Compensation	0	0%		75,205	75,205	100%	75,205	0 0% b
Employee Benefits - Workers Comp Total:			0	0%		75,205	75,205	100%	75,205	0 0%
<u>Employee Benefits - Other</u>										
A00	5.9045.800	Life Insurance	894	18%		5,000	4,106	82%	5,000	0 0% b
A00	5.9050.800	Unemployment Insurance	3,896	97%		4,000	104	3%	4,000	0 0% b
A00	5.9055.800	Disability Insurance	-945	-16%		5,800	6,745	116%	5,800	0 0% b
A00	5.9089.800	Employee Assistance Program	0	0%		3,400	3,400	100%	3,400	0 0% b
Employee Benefits - Other Total:			3,845	21%		18,200	14,355	79%	18,200	0 0%
<u>BANs</u>										
A00	5.9730.600	BAN - Principal	0	100%		0	0	0%	0	0 100% b
A00	5.9730.700	BAN - Interest	0	100%		0	0	0%	0	0 100% b
BANs Total:			0	100%		0	0	100%	0	0 100%
<u>Appropriations</u>										
A00	5.9602	Budgetary Prov - Fund Balance	0	100%		0	0	0%	0	0 100% b
Appropriations Total:			0	100%		0	0	100%	0	0 100%
Expense Total:			2,014,514	16%	12,638,530	10,624,016	84%		12,553,833	-84,697 -1%
A00 General Townwide Total:			6,512,894		-1	-6,512,895			114,480	114,481

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
1/1 - 1/31/2023 8%			Annual	Remaining	92%	Actual	Budget Var - %			
B00 General Part Town										
Revenue										
Real Property Tax										
B00	4.1001	Real Property Taxes	165,216	100%	165,216	0	0%	165,216	0	0% a
Real Property Tax Total:			165,216	100%	165,216	0	0%	165,216	0	0%
Home and Comm Svc										
B00	4.2110	Zoning Fees	200	8%	2,500	2,300	92%	2,500	0	0% b
B00	4.2115	Planning Board Fees	0	0%	2,000	2,000	100%	2,000	0	0% b
B00	4.2189	Code Enforcemnt - V/Fville	0	100%	0	0	0%	0	0	100% b
B00	4.2191	Code Enforcemnt - V/Manlius	0	100%	0	0	0%	0	0	100% b
Home and Comm Svc Total:			200	4%	4,500	4,300	96%	4,500	0	0%
Use of Money and Property										
B00	4.2401	Interest & Earnings	616	21%	3,000	2,384	79%	3,000	0	0% b
Use of Money and Property Total:			616	21%	3,000	2,384	79%	3,000	0	0%
Building Permits										
B00	4.2555	Building & Alteration Permits	5,327	8%	65,000	59,673	92%	65,000	0	0% b
B00	4.2590	Permits, Other	0	100%	0	0	0%	0	0	100% b
Building Permits Total:			5,327	8%	65,000	59,673	92%	65,000	0	0%
Sale of Property and Comp Loss										
B00	4.2655	Minor Sales	30	100%	0	-30	0%	30	30	100% a
Sale of Property and Comp Loss Total:			30	100%	0	-30	100%	30	30	100%
Miscellaneous Revenue										
B00	4.2701	Refunds of Prior Year Expenses	0	100%	0	0	0%	0	0	100% b
B00	4.2770	Unclassified Revenue	1,000	100%	0	-1,000	0%	1,000	1,000	100% a
Miscellaneous Revenue Total:			1,000	100%	0	-1,000	100%	1,000	1,000	100%
State Aid - General										
B00	4.3789.300	CFA Grant	0	100%	0	0	0%	0	0	100% b
State Aid - General Total:			0	100%	0	0	100%	0	0	100%
Interfund Transfers										
B00	4.5031	Interfund Transfers	0	100%	0	0	0%	0	0	100% b
Interfund Transfers Total:			0	100%	0	0	100%	0	0	100%
Appropriations										
B00	4.9600	Appropriations	0	0%	175,000	175,000	100%	175,000	0	0% b
B00	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
B00	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	0%	175,000	175,000	100%	175,000	0	0%
Revenue Total:			172,389	42%	412,716	240,327	58%	413,746	1,030	0%

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Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
1/1 - 1/31/2023 8%					Annual	Remaining	92%	Actual	Budget Var	- %
Expense										
Special Items										
B00	5.1990.400	Contingent Account	0	100%	0	0	0%	0	0	100% b
Special Items Total:			0	100%	0	0	100%	0	0	100%
Planning and Development										
B00	5.3620.100	P & D - Personal Services	11,074	6%	170,541	159,467	94%	143,962	-26,579	-16% 2
B00	5.3620.200	P & D - Equipment	0	100%	0	0	0%	0	0	100% b
B00	5.3620.400	P & D - Contractual	3,068	100%	0	-3,068	0%	3,068	3,068	100% a
B00	5.3620.401	P & D - Office Supplies	18	1%	2,000	1,982	99%	2,000	0	0% b
B00	5.3620.402	P & D - Training/Conferences	1,780	59%	3,000	1,220	41%	3,000	0	0% b
B00	5.3620.403	P & D - Associations/Dues	350	47%	750	400	53%	750	0	0% b
B00	5.3620.404	P & D - Books Publications	0	0%	500	500	100%	500	0	0% b
B00	5.3620.405	P & D - Information Technology	8,671	58%	15,000	6,329	42%	15,000	0	0% b
B00	5.3620.408	P & D - Printing/Advertising	0	100%	0	0	0%	0	0	100% b
B00	5.3620.410	P & D - Engineer	0	0%	30,000	30,000	100%	30,000	0	0% b
B00	5.3620.416	P & D - Travel Expense	0	0%	500	500	100%	500	0	0% b
B00	5.3620.421	P & D - Phone	118	8%	1,500	1,382	92%	1,500	0	0% b
B00	5.3620.461	P & D - Uniforms/Cleaning	0	0%	700	700	100%	700	0	0% b
B00	5.3620.462	P & D - Community Relations	0	0%	3,600	3,600	100%	3,600	0	0% b
Planning and Development Total:			25,079	11%	228,091	203,012	89%	204,580	-23,511	-10%
Planning										
B00	5.8020.100	Planning - Personal Services	0	0%	38,333	38,333	100%	0	-38,333	-100% 2
B00	5.8020.400	Planning - Contractual	0	100%	0	0	0%	0	0	100% b
B00	5.8020.401	Planning - Office Supplies	13	2%	720	707	98%	720	0	0% b
B00	5.8020.402	Planning - Seminars/Conference	0	0%	500	500	100%	500	0	0% b
B00	5.8020.408	Planning - Advertising	0	0%	800	800	100%	800	0	0% b
B00	5.8020.410	Planning - Engineer	0	0%	15,000	15,000	100%	15,000	0	0% b
B00	5.8020.450	Planning - Attorney	816	4%	20,000	19,184	96%	20,000	0	0% b
Planning Total:			829	1%	75,353	74,524	99%	37,020	-38,333	-51%
Zoning										
B00	5.8010.100	Zoning - Personal Services	0	0%	14,040	14,040	100%	0	-14,040	-100% 2
B00	5.8010.400	Zoning - Contractual	0	100%	0	0	0%	0	0	100% b
B00	5.8010.401	Zoning - Office Supplies	0	0%	450	450	100%	450	0	0% b
B00	5.8010.402	Zoning - Seminars	0	0%	400	400	100%	400	0	0% b
B00	5.8010.408	Zoning - Advertising	110	14%	800	690	86%	800	0	0% b
B00	5.8010.450	Zoning - Attorney	340	8%	4,000	3,660	92%	4,000	0	0% b
Zoning Total:			450	2%	19,690	19,240	98%	5,650	-14,040	-71%
Employee Benefits - NYS Retirement										
B00	5.9010.800	P & D - NYS Retirement	8,354	100%	8,354	0	0%	8,354	0	0% b
Employee Benefits - NYS Retirement Total:			8,354	100%	8,354	0	0%	8,354	0	0%

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			YTD Actual		Budget		Projected Year End		
1/1 - 1/31/2023			8%		Annual	Remaining	92%	Actual	Budget Var - %
<u>Employee Benefits - Health Ins</u>									
B00	5.9060.800	P & D - Hospital & Medical Ins	4,817	8%	59,567	54,750	92%	59,567	0 0% b
Employee Benefits - Health Ins Total:			4,817	8%	59,567	54,750	92%	59,567	0 0%
<u>Employee Benefits - Ins Opt Out</u>									
B00	5.9061.800	P & D - Opt-Out	0	100%	0	0	0%	0	0 100% b
Employee Benefits - Ins Opt Out Total:			0	100%	0	0	100%	0	0 100%
<u>Employee Benefits - FICA</u>									
B00	5.9030.800	P & D - FICA	776	5%	17,054	16,278	95%	17,054	0 0% b
Employee Benefits - FICA Total:			776	5%	17,054	16,278	95%	17,054	0 0%
<u>Employee Benefits - Workers Comp</u>									
B00	5.9040.800	P & D - Workers Compensation	0	0%	4,357	4,357	100%	4,357	0 0% b
Employee Benefits - Workers Comp Total:			0	0%	4,357	4,357	100%	4,357	0 0%
<u>Employee Benefits - Other</u>									
B00	5.9055.800	P & D - Disability Insurance	20	8%	250	230	92%	250	0 0% b
Employee Benefits - Other Total:			20	8%	250	230	92%	250	0 0%
<u>Appropriations</u>									
B00	5.9602	Budgetary Prov - Fund Balance	0	100%	0	0	0%	0	0 100% b
Appropriations Total:			0	100%	0	0	100%	0	0 100%
Expense Total:			40,325	10%	412,716	372,391	90%	336,832	-75,884 -18%
B00 General Part Town Total:			132,064		0	-132,064		76,914	76,914

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1/1 - 1/31/2023 8%			Annual	Remaining	92%	Actual	Budget	Var	- %	
CM1 Police Special Rev.										
Revenue										
Police - Special Items (Revenue)										
CM1	4.1589.93	Stop DWI - Quarterly Payments	18,039	100%	0	-18,039	0%	18,039	18,039	100% a
CM1	4.2401	Earned Interest - Pooled Cash	54	100%	0	-54	0%	54	54	100% a
CM1	4.2401.91	Interest - Drug Enforcement	0	100%	0	0	0%	0	0	100% b
CM1	4.2401.92	Interest - Police Equipment	0	100%	0	0	0%	0	0	100% b
CM1	4.2401.93	Interest - DWI Equipment	0	100%	0	0	0%	0	0	100% b
CM1	4.2401.94	Interest - Defibrillators	0	100%	0	0	0%	0	0	100% b
CM1	4.2401.95	Interest - Wall of Honor	0	100%	0	0	0%	0	0	100% b
CM1	4.2705.92	Donations - Police Equipment	0	100%	0	0	0%	0	0	100% b
CM1	4.2705.93	Donations - Defibrillators	0	100%	0	0	0%	0	0	100% b
CM1	4.2705.94	Donations - Wall of Honor	0	100%	0	0	0%	0	0	100% b
CM1	4.2715.91	Proceeds of Seized Property	0	100%	0	0	0%	0	0	100% b
CM1	4.3389.91	Drug Enforcement Grant	0	100%	0	0	0%	0	0	100% b
CM1	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
CM1	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
CM1	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Police - Special Items (Revenue) Total:			18,093	100%	0	-18,093	100%	18,093	18,093	100%
Revenue Total:			18,093	100%	0	-18,093	100%	18,093	18,093	100%
Expense										
Police - Special Items (Revenue)										
CM1	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Police - Special Items (Revenue) Total:			0	100%	0	0	100%	0	0	100%
Police - Special Items (Expense)										
CM1	5.3120.491	Drug Enforcement - Contractual	0	100%	0	0	0%	0	0	100% b
CM1	5.3120.492	Police Equipment - Contractual	0	100%	0	0	0%	0	0	100% b
CM1	5.3120.493	DWI Equipment - Contractual	0	100%	0	0	0%	0	0	100% b
CM1	5.3120.494	Defibrillators - Contractual	0	100%	0	0	0%	0	0	100% b
CM1	5.3120.495	Wall of Honor - Contractual	0	100%	0	0	0%	0	0	100% b
Police - Special Items (Expense) Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	100%	0	0	100%	0	0	100%
CM1 Police Special Rev. Total:			18,093		0	-18,093		18,093	18,093	

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Town of Manlius

Budget Report - Fund Detail

				YTD Actual	Budget			Projected Year End		
1/1 - 1/31/2023				8%	Annual	Remaining	92%	Actual	Budget Var - %	
CM2 Flood Water Study										
Revenue										
Use of Money and Property										
CM2	4.2401	Interest & Earnings	4	100%	0	-4	0%	4	4	100% a
Use of Money and Property Total:			4	100%	0	-4	100%	4	4	100%
Miscellaneous Revenue										
CM2	4.2701	Refund of Prior Year Expendtrs	0	100%	0	0	0%	0	0	100% b
Miscellaneous Revenue Total:			0	100%	0	0	100%	0	0	100%
State Aid - General										
CM2	4.4089	DEC Grant	0	100%	0	0	0%	0	0	100% b
State Aid - General Total:			0	100%	0	0	100%	0	0	100%
Appropriations										
CM2	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
CM2	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
CM2	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			4	100%	0	-4	100%	4	4	100%
Expense										
Water Admin										
CM2	5.8989.400	Flood Water Study - Contract	0	100%	0	0	0%	0	0	100% b
Water Admin Total:			0	100%	0	0	100%	0	0	100%
Appropriations										
CM2	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	100%	0	0	100%	0	0	100%
CM2 Flood Water Study Total:			4		0	-4		4	4	

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Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End			
			1/1 -	1/31/2023	8%	Annual	Remaining	92%	Actual	Budget	Var - %
CM3 Sustainable Manlius											
Revenue											
Use of Money and Property											
CM3	4.2401	Interest & Earnings	9	100%	0	-9	0%	9	9	100%	a
Use of Money and Property Total:			9	100%	0	-9	100%	9	9	100%	
Miscellaneous Revenue											
CM3	4.2705	Donations	0	100%	0	0	0%	0	0	100%	b
Miscellaneous Revenue Total:			0	100%	0	0	100%	0	0	100%	
State Aid - General											
CM3	4.3010	NYSERDA Grant	0	100%	0	0	0%	0	0	100%	b
State Aid - General Total:			0	100%	0	0	100%	0	0	100%	
Revenue Total:			9	100%	0	-9	100%	9	9	100%	
Expense											
Appropriations											
CM3	5.6789.200	Sustain Manlius - Equipment	0	100%	0	0	0%	0	0	100%	b
CM3	5.6789.400	Sustain Manlius - Contractual	0	100%	0	0	0%	0	0	100%	b
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Expense Total:			0	100%	0	0	100%	0	0	100%	
CM3 Sustainable Manlius Total:			9		0	-9		9	9		

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Town of Manlius

Budget Report - Fund Detail

				YTD Actual		Budget		Projected Year End				
				1/1 -	1/31/2023	8%	Annual	Remaining	92%	Actual	Budget	Var - %
CM4 Court Special Rev.												
Revenue												
Use of Money and Property												
CM4	4.2401	Interest & Earnings		3	100%		0	-3	0%	3	3	100% a
Use of Money and Property Total:				3	100%		0	-3	100%	3	3	100%
Fines and Forfeitures												
CM4	4.1289	DWI Arraignments		290	100%		0	-290	0%	290	290	100% a
Fines and Forfeitures Total:				290	100%		0	-290	100%	290	290	100%
Appropriations												
CM4	4.9600	Appropriations		0	100%		0	0	0%	0	0	100% b
CM4	4.9602	Bugetary Prov for Other Uses		0	100%		0	0	0%	0	0	100% b
CM4	4.9800	Revenues		0	100%		0	0	0%	0	0	100% b
Appropriations Total:				0	100%		0	0	100%	0	0	100%
Revenue Total:				293	100%		0	-293	100%	293	293	100%
Expense												
Justices												
CM4	5.1110.200	Justices - Equipment		0	100%		0	0	0%	0	0	100% b
CM4	5.1110.400	Justices - Contractual		0	100%		0	0	0%	0	0	100% b
Justices Total:				0	100%		0	0	100%	0	0	100%
Appropriations												
CM4	5.9602	Bugetary Prov - Fund Balance		0	100%		0	0	0%	0	0	100% b
Appropriations Total:				0	100%		0	0	100%	0	0	100%
Expense Total:				0	100%		0	0	100%	0	0	100%
CM4 Court Special Rev. Total:				293			0	-293		293	293	

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Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
1/1 - 1/31/2023 8%					Annual	Remaining	92%	Actual	Budget Var - %	
CM5 Parkland Trust										
Revenue										
Use of Money and Property										
CM5	4.2401	Interest & Earnings	40	100%	0	-40	0%	40	40	100% a
Use of Money and Property Total:			40	100%	0	-40	100%	40	40	100%
Miscellaneous Revenue										
CM5	4.2089	Parkland Fees	0	100%	0	0	0%	0	0	100% b
Miscellaneous Revenue Total:			0	100%	0	0	100%	0	0	100%
Appropriations										
CM5	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
CM5	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
CM5	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			40	100%	0	-40	100%	40	40	100%
Expense										
Appropriations										
CM5	5.1380	Bank Service Fees	0	100%	0	0	0%	0	0	100% b
CM5	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	100%	0	0	100%	0	0	100%
CM5 Parkland Trust Total:			40		0	-40		40	40	

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
			1/1 -	1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var - %
DA0 Highway Townwide										
Revenue										
Real Property Tax										
DA0	4.1001	Real Property Taxes	2,368,077	100%	2,368,077	0	0%	2,368,077	0	0% a
Real Property Tax Total:			2,368,077	100%	2,368,077	0	0%	2,368,077	0	0%
Intergovernmental Charges										
DA0	4.2300	Transportation Services	0	0%	96,869	96,869	100%	96,869	0	0% b
Intergovernmental Charges Total:			0	0%	96,869	96,869	100%	96,869	0	0%
Use of Money and Property										
DA0	4.2401	Interest & Earnings	1,282	128%	1,000	-282	0%	1,282	282	28% a
DA0	4.2401.01	Interest & Earnings - Reserves	0	100%	0	0	0%	0	0	100% b
Use of Money and Property Total:			1,282	128%	1,000	-282	-28%	1,282	282	28%
Sale of Property and Comp Loss										
DA0	4.2650	Sales of Scrap & Material	0	0%	1,000	1,000	100%	1,000	0	0% b
DA0	4.2665	Sale of Equipment	0	0%	25,000	25,000	100%	25,000	0	0% b
DA0	4.2680	Insurance Recovery	0	100%	0	0	0%	0	0	100% b
Sale of Property and Comp Loss Total:			0	0%	26,000	26,000	100%	26,000	0	0%
Miscellaneous Revenue										
DA0	4.2701	Refunds of Prior Year Expenses	0	100%	0	0	0%	0	0	100% b
DA0	4.2705	Gifts & Donations	0	100%	0	0	0%	0	0	100% b
DA0	4.2801	Interfund Revenues	0	100%	0	0	0%	0	0	100% b
Miscellaneous Revenue Total:			0	100%	0	0	100%	0	0	100%
State Aid - General										
DA0	4.3500	WIRP - Winter Severity Aid	0	0%	49,764	49,764	100%	49,764	0	0% b
State Aid - General Total:			0	0%	49,764	49,764	100%	49,764	0	0%
Appropriations										
DA0	4.9600	Appropriations	0	0%	100,000	100,000	100%	100,000	0	0% b
DA0	4.9602	Bugetary Prov For Other Uses	0	100%	0	0	0%	0	0	100% b
DA0	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	0%	100,000	100,000	100%	100,000	0	0%
Revenue Total:			2,369,359	90%	2,641,710	272,351	10%	2,641,992	282	0%
Expense										
Interfund Transfers										
DA0	5.9950.9R	Transfer to Capital Projects	0	100%	0	0	0%	0	0	100% b
Interfund Transfers Total:			0	100%	0	0	100%	0	0	100%
Machinery										
DA0	5.5112.200	Perm Improve Highway	0	100%	0	0	0%	0	0	100% b

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
1/1 - 1/31/2023			8%		Annual	Remaining	92%	Actual	Budget Var - %	
DA0	5.5130.200	Machinery - Equipment	-133,863	-49%	275,000	408,863	149%	275,000	0	0% b
DA0	5.5130.400	Machinery - Miscellaneous	0	100%	0	0	0%	0	0	100% b
DA0	5.5130.405	Machinery - Information Tech	0	100%	0	0	0%	0	0	100% b
DA0	5.5130.408	Machinery - Legal Notices	0	100%	0	0	0%	0	0	100% b
DA0	5.5130.411	Machinery - Vehicle Expenses	5,720	4%	140,000	134,280	96%	140,000	0	0% b
DA0	5.5130.440	Machinery - Equipment Expense	501	1%	70,000	69,499	99%	70,000	0	0% b
DA0	5.5130.447	Machinery - Shop Supply/Stock	207	2%	10,200	9,993	98%	10,200	0	0% b
DA0	5.5130.473	Machinery - Shop Tools	0	0%	7,000	7,000	100%	7,000	0	0% b
DA0	5.5130.474	Machinery - Tires	0	0%	4,391	4,391	100%	4,391	0	0% b
Machinery Total:			-127,435	-25%	506,591	634,026	125%	506,591	0	0%
Brush and Weeds										
DA0	5.5140.100	Brush & Weeds - Personal Srv	0	0%	48,579	48,579	100%	48,579	0	0% b
DA0	5.5140.101	Brush & Weeds - Overtime	0	0%	3,415	3,415	100%	3,415	0	0% b
DA0	5.5140.102	Brush & Weeds - Double Time	0	100%	0	0	0%	0	0	100% b
DA0	5.5140.400	Brush & Weeds - Miscellaneous	0	0%	100	100	100%	100	0	0% b
DA0	5.5140.402	Brush & Weeds - Seminars/Conf	0	0%	450	450	100%	450	0	0% b
DA0	5.5140.408	Brush & Weeds - Legal Advertis	0	0%	75	75	100%	75	0	0% b
DA0	5.5140.410	Brush & Weeds - Fuel	0	0%	4,500	4,500	100%	4,500	0	0% b
DA0	5.5140.440	Brush & Weeds - Equipment Re	0	0%	750	750	100%	750	0	0% b
DA0	5.5140.447	Brush & Weeds - Supplies/Trees	0	0%	2,000	2,000	100%	2,000	0	0% b
DA0	5.5140.473	Brush & Weeds - Tools	0	0%	750	750	100%	750	0	0% b
DA0	5.5140.477	Brush and Weeds - Equip Rental	0	100%	0	0	0%	0	0	100% b
DA0	5.5140.490	Brush & Weeds - Contractual S	0	0%	65,000	65,000	100%	65,000	0	0% b
Brush and Weeds Total:			0	0%	125,619	125,619	100%	125,619	0	0%
Snow Removal										
DA0	5.5142.100	Snow Removal - Personal Srv	111,174	18%	634,426	523,252	82%	634,426	0	0% b
DA0	5.5142.101	Snow Removal - Overtime	11,199	6%	186,471	175,272	94%	186,471	0	0% b
DA0	5.5142.102	Snow Removal - Double Time	1,630	3%	58,295	56,665	97%	58,295	0	0% b
DA0	5.5142.400	Snow Removal - Miscellaneous	48	5%	975	927	95%	975	0	0% b
DA0	5.5142.401	Snow Removal - Office Supplies	0	0%	1,530	1,530	100%	1,530	0	0% b
DA0	5.5142.404	Snow Removal - Subscriptions	0	0%	250	250	100%	250	0	0% b
DA0	5.5142.405	Snow Removal - Information Tec	0	100%	0	0	0%	0	0	100% b
DA0	5.5142.408	Snow Removal - Legal Adverts	0	0%	100	100	100%	100	0	0% b
DA0	5.5142.410	Snow Removal - Gasoline/Diesel	0	0%	101,250	101,250	100%	101,250	0	0% b
DA0	5.5142.421	Snow Removal - Phones/Pagers	0	0%	1,700	1,700	100%	1,700	0	0% b
DA0	5.5142.430	Snow Removal - Cleaning Suppl	96	2%	5,500	5,404	98%	5,500	0	0% b
DA0	5.5142.440	Snow Removal - Radios/CB's	0	0%	2,100	2,100	100%	2,100	0	0% b
DA0	5.5142.441	Snow Removal - Safety/Training	75	1%	7,000	6,925	99%	7,000	0	0% b
DA0	5.5142.447	Snow Removal - Shop Supplies	154	0%	37,891	37,737	100%	37,891	0	0% b
DA0	5.5142.448	Snow Removal - Uniforms/Clean	1,873	12%	15,000	13,127	88%	15,000	0	0% b
DA0	5.5142.470	Snow Removal - Materials	21,371	4%	480,430	459,059	96%	480,430	0	0% b
DA0	5.5142.471	Snow Removal - Repairs	-29	0%	38,194	38,223	100%	38,194	0	0% b

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
1/1 -			1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var - %	
DA0	5.5142.472	Snow Removal - Plow/Sand Eqp	-11,755	-35%	34,000	45,755	135%	34,000	0	0% b
DA0	5.5142.474	Snow Removal - Tires	0	0%	19,000	19,000	100%	19,000	0	0% b
Snow Removal Total:			135,836	8%	1,624,112	1,488,276	92%	1,624,112	0	0%
<u>Employee Benefits - NYS Retirement</u>										
DA0	5.9010.800	NYS Retirement	82,979	100%	82,979	0	0%	82,979	0	0% b
Employee Benefits - NYS Retirement Total:			82,979	100%	82,979	0	0%	82,979	0	0%
<u>Employee Benefits - Health Ins</u>										
DA0	5.9060.800	Hospital & Medical Insurance	30,173	16%	192,693	162,520	84%	192,693	0	0% b
Employee Benefits - Health Ins Total:			30,173	16%	192,693	162,520	84%	192,693	0	0%
<u>Employee Benefits - Ins Opt Out</u>										
DA0	5.9061.800	Health Insurance Opt-Out	369	15%	2,500	2,131	85%	2,500	0	0% b
Employee Benefits - Ins Opt Out Total:			369	15%	2,500	2,131	85%	2,500	0	0%
<u>Employee Benefits - FICA</u>										
DA0	5.9030.800	FICA	8,855	12%	71,236	62,381	88%	71,236	0	0% b
Employee Benefits - FICA Total:			8,855	12%	71,236	62,381	88%	71,236	0	0%
<u>Employee Benefits - Workers Comp</u>										
DA0	5.9040.800	Worker's Compensation	0	0%	34,880	34,880	100%	34,880	0	0% b
Employee Benefits - Workers Comp Total:			0	0%	34,880	34,880	100%	34,880	0	0%
<u>Employee Benefits - Other</u>										
DA0	5.9050.800	Unemployment	0	100%	0	0	0%	0	0	100% b
DA0	5.9055.800	Disability Insurance	177	16%	1,100	923	84%	1,100	0	0% b
Employee Benefits - Other Total:			177	16%	1,100	923	84%	1,100	0	0%
<u>BANs</u>										
DA0	5.9789.600	Snow Removal - Lease Principal	0	100%	0	0	0%	0	0	100% b
DA0	5.9789.700	Snow Removal - Lease Interest	0	100%	0	0	0%	0	0	100% b
BANs Total:			0	100%	0	0	100%	0	0	100%
<u>Appropriations</u>										
DA0	5.9602	Budgetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			130,954	5%	2,641,710	2,510,756	95%	2,641,710	0	0%
DA0 Highway Townwide Total:			2,238,405		0	-2,238,405		282	282	

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
			1/1 -	1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var - %
DB0 Highway Part Town										
Revenue										
Real Property Tax										
DB0	4.1001	Real Property Taxes	1,983,581	100%	1,983,424	-157	0%	1,983,581	157	0% a
Real Property Tax Total:			1,983,581	100%	1,983,424	-157	0%	1,983,581	157	0%
Use of Money and Property										
DB0	4.2401	Interest & Earnings	1,335	134%	1,000	-335	0%	1,335	335	34% a
Use of Money and Property Total:			1,335	134%	1,000	-335	-34%	1,335	335	34%
Sale of Property and Comp Loss										
DB0	4.2680	Insurance Recoveries	0	100%	0	0	0%	0	0	100% b
Sale of Property and Comp Loss Total:			0	100%	0	0	100%	0	0	100%
Miscellaneous Revenue										
DB0	4.2701	Refunds of Prior Years Expe	0	100%	0	0	0%	0	0	100% b
DB0	4.2770	Other Unclassified Revenue	0	100%	0	0	0%	0	0	100% b
Miscellaneous Revenue Total:			0	100%	0	0	100%	0	0	100%
State Aid - General										
DB0	4.3500	Extreme Winter Recover	0	100%	0	0	0%	0	0	100% b
DB0	4.3501	CHIPS Program	0	0%	329,377	329,377	100%	329,377	0	0% b
DB0	4.4960	Federal Aid Disaster Assistanc	0	100%	0	0	0%	0	0	100% b
State Aid - General Total:			0	0%	329,377	329,377	100%	329,377	0	0%
Interfund Transfers										
DB0	4.5031	Interfund Transfers	0	100%	0	0	0%	0	0	100% b
Interfund Transfers Total:			0	100%	0	0	100%	0	0	100%
Appropriations										
DB0	4.9600	Appropriations	0	0%	200,000	200,000	100%	200,000	0	0% b
DB0	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
DB0	4.9620	Budgetary Provisions For Other	0	100%	0	0	0%	0	0	100% b
DB0	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	0%	200,000	200,000	100%	200,000	0	0%
Revenue Total:			1,984,916	79%	2,513,801	528,885	21%	2,514,293	492	0%
Expense										
General Repairs										
DB0	5.5110.100	General Repairs - Personal Srv	0	0%	666,368	666,368	100%	666,368	0	0% b
DB0	5.5110.101	General Repairs - Overtime	0	0%	16,882	16,882	100%	16,882	0	0% b
DB0	5.5110.102	General Repairs - Doubletime	0	0%	645	645	100%	645	0	0% b
DB0	5.5110.400	General Repairs - Miscellaneous	0	0%	500	500	100%	500	0	0% b
DB0	5.5110.405	General Repairs - Engineer	0	0%	10,000	10,000	100%	10,000	0	0% b
DB0	5.5110.408	General Repairs - Printing & Adv	0	0%	60	60	100%	60	0	0% b

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a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
	1/1 -	1/31/2023	8%		Annual	Remaining	92%	Actual	Budget Var -	%
DB0 5.5110.410	General Repairs - Diesel	0	0%		67,500	67,500	100%	67,500	0	0% b
DB0 5.5110.430	General Repairs - Stop Chemica	0	0%		7,500	7,500	100%	7,500	0	0% b
DB0 5.5110.441	General Repairs - Safety/Train	0	0%		1,000	1,000	100%	1,000	0	0% b
DB0 5.5110.450	General Repairs - Contractual	0	0%		410,983	410,983	100%	410,983	0	0% b
DB0 5.5110.472	General Repairs - Signs	-84	-1%		13,500	13,584	101%	13,500	0	0% b
DB0 5.5110.473	General Repairs - Road Tools	0	0%		1,000	1,000	100%	1,000	0	0% b
DB0 5.5110.474	General Repairs - Tires	0	0%		5,500	5,500	100%	5,500	0	0% b
DB0 5.5110.475	General Repairs - Road Repair	0	0%		855,832	855,832	100%	855,832	0	0% b
DB0 5.5110.476	General Repairs - Road Paint	0	0%		34,240	34,240	100%	34,240	0	0% b
DB0 5.5110.477	General Repairs - Equipment	0	0%		1,000	1,000	100%	1,000	0	0% b
DB0 5.5110.478	General Repairs - Drainage	0	0%		43,575	43,575	100%	43,575	0	0% b
DB0 5.5112.200	Perm Improve Highway	0	100%		0	0	0%	0	0	100% b
General Repairs Total:		-84	0%		2,136,085	2,136,169	100%	2,136,085	0	0%
<u>Employee Benefits - NYS Retirement</u>										
DB0 5.9010.800	NYS Retirement	82,979	100%		82,979	0	0%	82,979	0	0% b
Employee Benefits - NYS Retirement Total:		82,979	100%		82,979	0	0%	82,979	0	0%
<u>Employee Benefits - Health Ins</u>										
DB0 5.9060.800	Hospital & Medical Insurance	0	0%		192,693	192,693	100%	192,693	0	0% b
Employee Benefits - Health Ins Total:		0	0%		192,693	192,693	100%	192,693	0	0%
<u>Employee Benefits - Ins Opt Out</u>										
DB0 5.9061.800	Health Insurance Opt-Out	0	0%		2,500	2,500	100%	2,500	0	0% b
Employee Benefits - Ins Opt Out Total:		0	0%		2,500	2,500	100%	2,500	0	0%
<u>Employee Benefits - FICA</u>										
DB0 5.9030.800	FICA	0	0%		63,564	63,564	100%	63,564	0	0% b
Employee Benefits - FICA Total:		0	0%		63,564	63,564	100%	63,564	0	0%
<u>Employee Benefits - Workers Comp</u>										
DB0 5.9040.800	Worker's Compensation	0	0%		34,880	34,880	100%	34,880	0	0% b
Employee Benefits - Workers Comp Total:		0	0%		34,880	34,880	100%	34,880	0	0%
<u>Employee Benefits - Other</u>										
DB0 5.9055.800	Disability Insurance	0	0%		1,100	1,100	100%	1,100	0	0% b
Employee Benefits - Other Total:		0	0%		1,100	1,100	100%	1,100	0	0%
<u>Appropriations</u>										
DB0 5.9602	Bugetary Prov - Fund Balance	0	100%		0	0	0%	0	0	100% b
Appropriations Total:		0	100%		0	0	100%	0	0	100%
Expense Total:		82,895	3%		2,513,801	2,430,906	97%	2,513,801	0	0%
DB0 Highway Part Town Total:		1,902,021			0	-1,902,021		492	492	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End			
1/1 - 1/31/2023 8%					Annual	Remaining	92%	Actual	Budget Var - %		
HA0 Landfill Capital Fund											
Revenue											
Use of Money and Property											
HA0	4.2401	Interest & Earnings	21	100%	0	-21	0%	21	21	100%	a
Use of Money and Property Total:			21	100%	0	-21	100%	21	21	100%	
Appropriations											
HA0	4.9600	Appropriations	0	100%	0	0	0%	0	0	100%	b
HA0	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100%	b
HA0	4.9800	Revenues	0	100%	0	0	0%	0	0	100%	b
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Revenue Total:			21	100%	0	-21	100%	21	21	100%	
Expense											
Refuse											
HA0	5.8160.200	Landfill Closure - Capital Out	0	100%	0	0	0%	0	0	100%	b
Refuse Total:			0	100%	0	0	100%	0	0	100%	
Appropriations											
HA0	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100%	b
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Expense Total:			0	100%	0	0	100%	0	0	100%	
HA0 Landfill Capital Fund Total:			21		0	-21		21	21		

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End					
1/1 - 1/31/2023 8%			Annual			Remaining		92%		Actual		Budget Var - %	
HB0 Watervale Rd. Water Ext.													
Revenue													
Use of Money and Property													
HB0	4.2401	Interest & Earnings	0	100%	0	0	0%	0	0	100%	b		
Use of Money and Property Total:			0	100%	0	0	100%	0	0	100%			
BANs													
HB0	4.5730	BAN's Redeemed From Approp	0	100%	0	0	0%	0	0	100%	b		
BANs Total:			0	100%	0	0	100%	0	0	100%			
Appropriations													
HB0	4.9600	Appropriations	0	100%	0	0	0%	0	0	100%	b		
HB0	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100%	b		
HB0	4.9800	Revenues	0	100%	0	0	0%	0	0	100%	b		
Appropriations Total:			0	100%	0	0	100%	0	0	100%			
Revenue Total:			0	100%	0	0	100%	0	0	100%			
Expense													
Water Trans-Distrib													
HB0	5.8340.200	Trans/Dist - Capital Outlay	0	100%	0	0	0%	0	0	100%	b		
Water Trans-Distrib Total:			0	100%	0	0	100%	0	0	100%			
Appropriations													
HB0	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100%	b		
Appropriations Total:			0	100%	0	0	100%	0	0	100%			
Expense Total:			0	100%	0	0	100%	0	0	100%			
HB0 Watervale Rd. Water Ext. Total:			0		0	0		0	0				

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
1/1 - 1/31/2023 8%			Annual			Remaining 92%		Actual Budget Var - %		
HD0 Thompson Sewer Dist.										
Revenue										
Use of Money and Property										
HD0	4.2401	Interest & Earnings	0	100%	0	0	0%	0	0	100% b
Use of Money and Property Total:			0	100%	0	0	100%	0	0	100%
BANs										
HD0	4.5710	Proceeds of Serial Bonds	0	100%	0	0	0%	0	0	100% b
BANs Total:			0	100%	0	0	100%	0	0	100%
Appropriations										
HD0	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
HD0	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
HD0	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			0	100%	0	0	100%	0	0	100%
Expense										
Sewer										
HD0	5.8120.200	Sanitary Sewers - Capital Otlly	0	100%	0	0	0%	0	0	100% b
Sewer Total:			0	100%	0	0	100%	0	0	100%
Appropriations										
HD0	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	100%	0	0	100%	0	0	100%
HD0 Thompson Sewer Dist. Total:			0		0	0		0	0	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End			
			1/1 -	1/31/2023	8%	Annual	Remaining	92%	Actual	Budget	Var - %
HE0 Salt Storage Facility											
Revenue											
Real Property Tax											
HE0	4.1001	Real Property Taxes	0	100%	0	0	0%	0	0	100%	a
Real Property Tax Total:			0	100%	0	0	100%	0	0	100%	
Use of Money and Property											
HE0	4.2401	Interest & Earnings	153	100%	0	-153	0%	153	153	100%	a
Use of Money and Property Total:			153	100%	0	-153	100%	153	153	100%	
Interfund Transfers											
HE0	4.5031	Interfund Transfers	0	100%	0	0	0%	0	0	100%	b
Interfund Transfers Total:			0	100%	0	0	100%	0	0	100%	
BANs											
HE0	4.5730	Bond Anticipation Notes	0	100%	0	0	0%	0	0	100%	b
BANs Total:			0	100%	0	0	100%	0	0	100%	
Appropriations											
HE0	4.9600	Appropriations	0	100%	0	0	0%	0	0	100%	b
HE0	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100%	b
HE0	4.9800	Revenues	0	100%	0	0	0%	0	0	100%	b
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Revenue Total:			153	100%	0	-153	100%	153	153	100%	
Expense											
Town Board											
HE0	5.1000	Prior Year Expenses	0	100%	0	0	0%	0	0	100%	b
Town Board Total:			0	100%	0	0	100%	0	0	100%	
Garage/Salt Storage											
HE0	5.5132.200	Salt Storage Facility - Cap Ot	0	100%	0	0	0%	0	0	100%	b
Garage/Salt Storage Total:			0	100%	0	0	100%	0	0	100%	
BANs											
HE0	5.9730.600	BAN - Principal	0	100%	0	0	0%	0	0	100%	b
HE0	5.9730.700	BAN - Interest	0	100%	0	0	0%	0	0	100%	b
BANs Total:			0	100%	0	0	100%	0	0	100%	
Appropriations											
HE0	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100%	b
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Expense Total:			0	100%	0	0	100%	0	0	100%	
HE0 Salt Storage Facility Total:			153		0	-153		153	153		

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End				
1/1 - 1/31/2023 8%			Annual			Remaining 92%			Actual		Budget Var - %	
HG0 Highway Garage Roof												
Revenue												
Real Property Tax												
HG0	4.1001	Real Property Taxes	0	100%	0	0	0%	0	0	100%	a	
Real Property Tax Total:			0	100%	0	0	100%	0	0	100%		
Use of Money and Property												
HG0	4.2401	Interest & Earnings	36	100%	0	-36	0%	36	36	100%	a	
Use of Money and Property Total:			36	100%	0	-36	100%	36	36	100%		
BANs												
HG0	4.5730	Bond Anticipation Notes	0	100%	0	0	0%	0	0	100%	b	
BANs Total:			0	100%	0	0	100%	0	0	100%		
Revenue Total:			36	100%	0	-36	100%	36	36	100%		
Expense												
Garage/Salt Storage												
HG0	5.5132.200	Garage - Bldg and Eqpt	0	100%	0	0	0%	0	0	100%	b	
Garage/Salt Storage Total:			0	100%	0	0	100%	0	0	100%		
Expense Total:			0	100%	0	0	100%	0	0	100%		
HG0 Highway Garage Roof Total:			36		0	-36		36	36			

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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Town of Manlius

Budget Report - Fund Detail

				YTD Actual		Budget		Projected Year End		
1/1 - 1/31/2023 8%				Annual	Remaining	92%	Actual	Budget Var - %		
HW0 Town Hall Windows										
Revenue										
Use of Money and Property										
HW0	4.2401	Interest & Earnings	0	100%	0	0	0%	0	0	100% b
Use of Money and Property Total:			0	100%	0	0	100%	0	0	100%
BANs										
HW0	4.5730	Bond Anticipation Notes	0	100%	0	0	0%	0	0	100% b
BANs Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			0	100%	0	0	100%	0	0	100%
Expense										
Garage/Salt Storage										
HW0	5.5132.200	Town Hall Windows	0	100%	0	0	0%	0	0	100% b
Garage/Salt Storage Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	100%	0	0	100%	0	0	100%
HW0 Town Hall Windows Total:			0		0	0		0	0	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
1/1 - 1/31/2023 8%					Annual	Remaining	92%	Actual	Budget Var - %	
SD1 Consolidated Drainage #1										
Revenue										
Real Property Tax										
SD1	4.1001	Real Property Taxes	65,775	100%	65,775	0	0%	65,775	0	0% b
Real Property Tax Total:			65,775	100%	65,775	0	0%	65,775	0	0%
Use of Money and Property										
SD1	4.2401	Interest & Earnings	230	100%	0	-230	0%	230	230	100% a
Use of Money and Property Total:			230	100%	0	-230	100%	230	230	100%
Appropriations										
SD1	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
SD1	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SD1	4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100% b
SD1	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			66,005	100%	65,775	-230	0%	66,005	230	0%
Expense										
Drainage										
SD1	5.8540.400	Drainage - Contractual	0	0%	65,775	65,775	100%	65,775	0	0% b
Drainage Total:			0	0%	65,775	65,775	100%	65,775	0	0%
Appropriations										
SD1	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	0%	65,775	65,775	100%	65,775	0	0%
SD1 Consolidated Drainage #1 Total:			66,005		0	-66,005		230	230	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
			1/1 -	1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var - %
SD2 Consolidated Drainage #2										
Revenue										
Real Property Tax										
SD2	4.1001	Real Property Taxes	34,397	100%	34,400	3	0%	34,400	0	0% b
Real Property Tax Total:			34,397	100%	34,400	3	0%	34,400	0	0%
Use of Money and Property										
SD2	4.2401	Interest & Earnings	113	100%	0	-113	0%	113	113	100% a
Use of Money and Property Total:			113	100%	0	-113	100%	113	113	100%
Appropriations										
SD2	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
SD2	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SD2	4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100% b
SD2	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			34,510	100%	34,400	-110	0%	34,513	113	0%
Expense										
Drainage										
SD2	5.8540.400	Drainage - Contractual	0	0%	34,400	34,400	100%	34,400	0	0% b
Drainage Total:			0	0%	34,400	34,400	100%	34,400	0	0%
Appropriations										
SD2	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	0%	34,400	34,400	100%	34,400	0	0%
SD2 Consolidated Drainage #2 Total:			34,510		0	-34,510		113	113	

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Town of Manlius

Budget Report - Fund Detail

		YTD Actual			Budget			Projected Year End		
		1/1 -	1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var -	%
SD3 Consolidated Drainage #3										
Revenue										
Real Property Tax										
SD3	4.1001	Real Property Taxes	88,219	100%	88,225	6	0%	88,225	0	0% b
Real Property Tax Total:			88,219	100%	88,225	6	0%	88,225	0	0%
Use of Money and Property										
SD3	4.2401	Interest & Earnings	523	100%	0	-523	0%	523	523	100% a
Use of Money and Property Total:			523	100%	0	-523	100%	523	523	100%
Interfund Transfers										
SD3	4.5031	Interfund Transfers	0	100%	0	0	0%	0	0	100% b
Interfund Transfers Total:			0	100%	0	0	100%	0	0	100%
Appropriations										
SD3	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
SD3	4.9602	Budgetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SD3	4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100% b
SD3	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			88,742	101%	88,225	-517	-1%	88,748	523	1%
Expense										
Drainage										
SD3	5.8540.400	Drainage - Contractual	2,830	3%	88,225	85,395	97%	88,225	0	0% b
Drainage Total:			2,830	3%	88,225	85,395	97%	88,225	0	0%
Appropriations										
SD3	5.9602	Budgetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			2,830	3%	88,225	85,395	97%	88,225	0	0%
SD3 Consolidated Drainage #3 Total:			85,912		0	-85,912		523	523	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
			1/1 -	1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var - %
SF1 Fayetteville Fire Protection										
Revenue										
Real Property Tax										
SF1	4.1001	Real Property Taxes	1,994,114	100%	1,994,075	-39	0%	1,994,114	39	0% a
Real Property Tax Total:			1,994,114	100%	1,994,075	-39	0%	1,994,114	39	0%
Use of Money and Property										
SF1	4.2401	Interest & Earnings	3	100%	0	-3	0%	3	3	100% a
Use of Money and Property Total:			3	100%	0	-3	100%	3	3	100%
Appropriations										
SF1	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
SF1	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SF1	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			1,994,117	100%	1,994,075	-42	0%	1,994,117	42	0%
Expense										
Fire Protection										
SF1	5.3410.400	Fire Protection - Contractual	0	0%	1,994,075	1,994,075	100%	1,994,075	0	0% b
Fire Protection Total:			0	0%	1,994,075	1,994,075	100%	1,994,075	0	0%
Appropriations										
SF1	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	0%	1,994,075	1,994,075	100%	1,994,075	0	0%
SF1 Fayetteville Fire Protection Total:			1,994,117		0	-1,994,117		42	42	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

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Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
			1/1 -	1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var - %
SF2 Manlius Fire Protection										
Revenue										
Real Property Tax										
SF2	4.1001	Real Property Taxes	1,582,472	100%	1,582,417	-55	0%	1,582,472	55	0% a
Real Property Tax Total:			1,582,472	100%	1,582,417	-55	0%	1,582,472	55	0%
Use of Money and Property										
SF2	4.2401	Interest & Earnings	13	100%	0	-13	0%	13	13	100% a
Use of Money and Property Total:			13	100%	0	-13	100%	13	13	100%
Appropriations										
SF2	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
SF2	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SF2	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			1,582,485	100%	1,582,417	-68	0%	1,582,485	68	0%
Expense										
Fire Protection										
SF2	5.3410.400	Fire Protection - Contractual	0	0%	1,582,417	1,582,417	100%	1,582,417	0	0% b
Fire Protection Total:			0	0%	1,582,417	1,582,417	100%	1,582,417	0	0%
Appropriations										
SF2	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	0%	1,582,417	1,582,417	100%	1,582,417	0	0%
SF2 Manlius Fire Protection Total:			1,582,485		0	-1,582,485		68	68	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

				YTD Actual		Budget		Projected Year End			
				1/1 -	1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var - %
SF3 Minoa Fire Protection											
Revenue											
Real Property Tax											
SF3	4.1001	Real Property Taxes		1,241,734	100%	1,241,693	-41	0%	1,241,734	41	0% a
Real Property Tax Total:				1,241,734	100%	1,241,693	-41	0%	1,241,734	41	0%
Use of Money and Property											
SF3	4.2401	Interest & Earnings		2	100%	0	-2	0%	2	2	100% a
Use of Money and Property Total:				2	100%	0	-2	100%	2	2	100%
Appropriations											
SF3	4.9600	Appropriations		0	100%	0	0	0%	0	0	100% b
SF3	4.9602	Bugetary Prov for Other Uses		0	100%	0	0	0%	0	0	100% b
SF3	4.9800	Revenues		0	100%	0	0	0%	0	0	100% b
Appropriations Total:				0	100%	0	0	100%	0	0	100%
Revenue Total:				1,241,736	100%	1,241,693	-43	0%	1,241,736	43	0%
Expense											
Fire Protection											
SF3	5.3410.400	Fire Protection - Contractual		0	0%	1,241,693	1,241,693	100%	1,241,693	0	0% b
Fire Protection Total:				0	0%	1,241,693	1,241,693	100%	1,241,693	0	0%
Appropriations											
SF3	5.9602	Bugetary Prov - Fund Balance		0	100%	0	0	0%	0	0	100% b
Appropriations Total:				0	100%	0	0	100%	0	0	100%
Expense Total:				0	0%	1,241,693	1,241,693	100%	1,241,693	0	0%
SF3 Minoa Fire Protection Total:				1,241,736		0	-1,241,736		43	43	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

		YTD Actual			Budget			Projected Year End		
		1/1 -	1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var -	%
SF4 Kirkville Fire Protection										
Revenue										
Real Property Tax										
SF4	4.1001	Property Taxes	238,815	100%	238,807	-8	0%	238,815	8	0% a
Real Property Tax Total:			238,815	100%	238,807	-8	0%	238,815	8	0%
Use of Money and Property										
SF4	4.2401	Earned Interest	0	100%	0	0	0%	0	0	100% b
Use of Money and Property Total:			0	100%	0	0	100%	0	0	100%
Appropriations										
SF4	4.9602	Budgetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			238,815	100%	238,807	-8	0%	238,815	8	0%
Expense										
Fire Protection										
SF4	5.3410.400	Kirkville Fire - Contractual	0	0%	238,807	238,807	100%	238,807	0	0% b
Fire Protection Total:			0	0%	238,807	238,807	100%	238,807	0	0%
Appropriations										
SF4	5.9602	Budgetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	0%	238,807	238,807	100%	238,807	0	0%
Asset										
Appropriations										
SF4	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
SF4	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Asset Total:			0	100%	0	0	100%	0	0	100%
SF4 Kirkville Fire Protection Total:			238,815		0	-238,815		8	8	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
			1/1 - 1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var - %	
SL1 Overhead Lighting										
Revenue										
Real Property Tax										
SL1	4.1001	Real Property Taxes	25,010	100%	25,000	-10	0%	25,010	10	0% a
Real Property Tax Total:			25,010	100%	25,000	-10	0%	25,010	10	0%
Use of Money and Property										
SL1	4.2401	Interest & Earnings	26	100%	0	-26	0%	26	26	100% a
Use of Money and Property Total:			26	100%	0	-26	100%	26	26	100%
Appropriations										
SL1	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
SL1	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SL1	4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100% b
SL1	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			25,036	100%	25,000	-36	0%	25,036	36	0%
Expense										
Street Lighting										
SL1	5.5182.400	Street Lighting - Contractual	1,790	7%	25,000	23,210	93%	25,000	0	0% b
Street Lighting Total:			1,790	7%	25,000	23,210	93%	25,000	0	0%
Appropriations										
SL1	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			1,790	7%	25,000	23,210	93%	25,000	0	0%
SL1 Overhead Lighting Total:			23,246		0	-23,246		36	36	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
			1/1 -	1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var - %
SL2 Underground Lighting										
Revenue										
Real Property Tax										
SL2	4.1001	Real Property Taxes	33,004	100%	33,000	-4	0%	33,004	4	0% a
Real Property Tax Total:			33,004	100%	33,000	-4	0%	33,004	4	0%
Use of Money and Property										
SL2	4.2401	Interest & Earnings	5	100%	0	-5	0%	5	5	100% a
Use of Money and Property Total:			5	100%	0	-5	100%	5	5	100%
Appropriations										
SL2	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
SL2	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SL2	4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100% b
SL2	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			33,009	100%	33,000	-9	0%	33,009	9	0%
Expense										
Street Lighting										
SL2	5.5182.400	Street Lighting - Contractual	2,449	7%	33,000	30,551	93%	33,000	0	0% b
Street Lighting Total:			2,449	7%	33,000	30,551	93%	33,000	0	0%
Appropriations										
SL2	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			2,449	7%	33,000	30,551	93%	33,000	0	0%
SL2 Underground Lighting Total:			30,560		0	-30,560		9	9	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
			1/1 -	1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var - %
SL3 Entry Lighting										
Revenue										
Real Property Tax										
SL3	4.1001	Real Property Taxes	1,704	100%	1,700	-4	0%	1,704	4	0% a
Real Property Tax Total:			1,704	100%	1,700	-4	0%	1,704	4	0%
Use of Money and Property										
SL3	4.2401	Interest & Earnings	6	100%	0	-6	0%	6	6	100% a
Use of Money and Property Total:			6	100%	0	-6	100%	6	6	100%
Appropriations										
SL3	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
SL3	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SL3	4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100% b
SL3	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			1,710	101%	1,700	-10	-1%	1,710	10	1%
Expense										
Street Lighting										
SL3	5.5182.400	Street Lighting - Contractual	118	7%	1,700	1,582	93%	1,700	0	0% b
Street Lighting Total:			118	7%	1,700	1,582	93%	1,700	0	0%
Appropriations										
SL3	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			118	7%	1,700	1,582	93%	1,700	0	0%
SL3 Entry Lighting Total:			1,592		0	-1,592		10	10	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
			1/1 -	1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var - %
SL4 Garden Park Lighting										
Revenue										
Real Property Tax										
SL4	4.1001	Real Property Taxes	10,001	100%	10,000	-1	0%	10,001	1	0% a
Real Property Tax Total:			10,001	100%	10,000	-1	0%	10,001	1	0%
Use of Money and Property										
SL4	4.2401	Interest & Earnings	1	100%	0	-1	0%	1	1	100% a
Use of Money and Property Total:			1	100%	0	-1	100%	1	1	100%
Appropriations										
SL4	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
SL4	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SL4	4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100% b
SL4	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			10,002	100%	10,000	-2	0%	10,002	2	0%
Expense										
Street Lighting										
SL4	5.5182.400	Street Lighting - Contractual	703	7%	10,000	9,297	93%	10,000	0	0% b
Street Lighting Total:			703	7%	10,000	9,297	93%	10,000	0	0%
Appropriations										
SL4	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			703	7%	10,000	9,297	93%	10,000	0	0%
SL4 Garden Park Lighting Total:			9,299		0	-9,299		2	2	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End			
			1/1 - 1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var - %		
SL5 Ratnour Bridge Lighting											
Revenue											
Real Property Tax											
SL5	4.1001	Real Property Taxes	37,012	100%	37,000	-12	0%	37,012	12	0%	a
Real Property Tax Total:			37,012	100%	37,000	-12	0%	37,012	12	0%	
Use of Money and Property											
SL5	4.2401	Interest & Earnings	10	100%	0	-10	0%	10	10	100%	a
Use of Money and Property Total:			10	100%	0	-10	100%	10	10	100%	
Appropriations											
SL5	4.9600	Appropriations	0	100%	0	0	0%	0	0	100%	b
SL5	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100%	b
SL5	4.9800	Revenues	0	100%	0	0	0%	0	0	100%	b
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Revenue Total:			37,022	100%	37,000	-22	0%	37,022	22	0%	
Expense											
Street Lighting											
SL5	5.5182.400	Street Lighting - Contractual	2,695	7%	37,000	34,305	93%	37,000	0	0%	b
Street Lighting Total:			2,695	7%	37,000	34,305	93%	37,000	0	0%	
Appropriations											
SL5	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100%	b
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Expense Total:			2,695	7%	37,000	34,305	93%	37,000	0	0%	
SL5 Ratnour Bridge Lighting Total:			34,327		0	-34,327		22	22		

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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a = Actual YTD; b = Annual budget; p = Projected amount

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Budget Report - Fund Detail

		YTD Actual			Budget			Projected Year End		
1/1 -		1/31/2023	8%		Annual	Remaining	92%	Actual	Budget Var - %	
SR1 Manlius Trash Dist										
Revenue										
Real Property Tax										
SR1	4.1001	Real Property Taxes	2,488,012	100%	2,487,651	-361	0%	2,488,012	361	0% a
Real Property Tax Total:			2,488,012	100%	2,487,651	-361	0%	2,488,012	361	0%
Use of Money and Property										
SR1	4.2401	Interest & Earnings	345	100%	0	-345	0%	345	345	100% a
Use of Money and Property Total:			345	100%	0	-345	100%	345	345	100%
Appropriations										
SR1	4.9600	Appropriations Fund Balance	0	100%	0	0	0%	0	0	100% b
SR1	4.9602	Budgetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SR1	4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100% b
SR1	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			2,488,357	100%	2,487,651	-706	0%	2,488,357	706	0%
Expense										
Refuse										
SR1	5.8160.100	Refuse - Personal Services	0	0%	11,268	11,268	100%	11,268	0	0% b
SR1	5.8160.400	Refuse - Contractual	205,582	8%	2,472,726	2,267,144	92%	2,472,726	0	0% b
Refuse Total:			205,582	8%	2,483,994	2,278,412	92%	2,483,994	0	0%
Employee Benefits - NYS Retirement										
SR1	5.9010.800	NYS Retirement	0	100%	0	0	0%	0	0	100% b
Employee Benefits - NYS Retirement Total:			0	100%	0	0	100%	0	0	100%
Employee Benefits - Health Ins										
SR1	5.9060.800	Hospital & Medical Insurance	186	7%	2,795	2,609	93%	2,795	0	0% b
Employee Benefits - Health Ins Total:			186	7%	2,795	2,609	93%	2,795	0	0%
Employee Benefits - FICA										
SR1	5.9030.800	FICA	0	0%	862	862	100%	862	0	0% b
Employee Benefits - FICA Total:			0	0%	862	862	100%	862	0	0%
Appropriations										
SR1	5.9602	Budgetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			205,768	8%	2,487,651	2,281,883	92%	2,487,651	0	0%
SR1 Manlius Trash Dist Total:			2,282,589		0	-2,282,589		706	706	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

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Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
			1/1 -	1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var - %
SR2 Manlius Brush Dist										
Revenue										
Real Property Tax										
SR2	4.1001	Real Property Taxes	317,297	100%	317,362	65	0%	317,362	0	0% b
Real Property Tax Total:			317,297	100%	317,362	65	0%	317,362	0	0%
Use of Money and Property										
SR2	4.2401	Interest & Earnings	23	100%	0	-23	0%	23	23	100% a
Use of Money and Property Total:			23	100%	0	-23	100%	23	23	100%
Appropriations										
SR2	4.9600	Appropriations Fund Balance	0	100%	0	0	0%	0	0	100% b
SR2	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SR2	4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100% b
SR2	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			317,320	100%	317,362	42	0%	317,385	23	0%
Expense										
Refuse										
SR2	5.8160.100	Refuse - Personal Services	0	0%	11,268	11,268	100%	11,268	0	0% b
SR2	5.8160.400	Refuse - Contractual	25,188	8%	302,438	277,250	92%	302,438	0	0% b
Refuse Total:			25,188	8%	313,706	288,518	92%	313,706	0	0%
Employee Benefits - NYS Retirement										
SR2	5.9010.800	NYS Retirement	0	100%	0	0	0%	0	0	100% b
Employee Benefits - NYS Retirement Total:			0	100%	0	0	100%	0	0	100%
Employee Benefits - Health Ins										
SR2	5.9060.800	Hospital & Medical Insurance	186	7%	2,795	2,609	93%	2,795	0	0% b
Employee Benefits - Health Ins Total:			186	7%	2,795	2,609	93%	2,795	0	0%
Employee Benefits - FICA										
SR2	5.9030.800	FICA	0	0%	862	862	100%	862	0	0% b
Employee Benefits - FICA Total:			0	0%	862	862	100%	862	0	0%
Appropriations										
SR2	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			25,374	8%	317,363	291,989	92%	317,363	0	0%
SR2 Manlius Brush Dist Total:			291,946		-1	-291,947		22	23	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
			1/1 -	1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var - %
SS1 Manlius Sewer Dist										
Revenue										
Real Property Tax										
SS1	4.1001	Real Property Taxes	0	100%	0	0	0%	0	0	100% b
Real Property Tax Total:			0	100%	0	0	100%	0	0	100%
Intergovernmental Charges										
SS1	4.2374	Transportation T/Dewitt	0	100%	0	0	0%	0	0	100% b
Intergovernmental Charges Total:			0	100%	0	0	100%	0	0	100%
Use of Money and Property										
SS1	4.2401	Interest & Earnings	244	100%	0	-244	0%	244	244	100% a
Use of Money and Property Total:			244	100%	0	-244	100%	244	244	100%
Appropriations										
SS1	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
SS1	4.9602	Budgetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SS1	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			244	100%	0	-244	100%	244	244	100%
Expense										
Sewer										
SS1	5.8110.400	Sewer Administration	0	100%	0	0	0%	0	0	100% b
SS1	5.8120.400	Sanitary Sewers - O&M	0	100%	0	0	0%	0	0	100% b
SS1	5.8130.400	Sewage Trtmt & Disp - County	0	100%	0	0	0%	0	0	100% b
Sewer Total:			0	100%	0	0	100%	0	0	100%
Appropriations										
SS1	5.9602	Budgetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	100%	0	0	100%	0	0	100%
SS1 Manlius Sewer Dist Total:			244		0	-244		244	244	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.
m = YTD Monthly average projected to 12 months.
a = Actual YTD; b = Annual budget; p = Projected amount

Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
			1/1 -	1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var - %
SS2 Thompson Sewer Dist										
Revenue										
Real Property Tax										
SS2	4.1001	Real Property Taxes	18,460	100%	18,460	0	0%	18,460	0	0% b
Real Property Tax Total:			18,460	100%	18,460	0	0%	18,460	0	0%
Home and Comm Svc										
SS2	4.2120	Sewer Rents	0	100%	0	0	0%	0	0	100% b
Home and Comm Svc Total:			0	100%	0	0	100%	0	0	100%
Use of Money and Property										
SS2	4.2401	Interest & Earnings	5	100%	0	-5	0%	5	5	100% a
Use of Money and Property Total:			5	100%	0	-5	100%	5	5	100%
Appropriations										
SS2	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
SS2	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SS2	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			18,465	100%	18,460	-5	0%	18,465	5	0%
Expense										
BANs										
SS2	5.9710.600	Serial Bonds - Principal	0	0%	15,000	15,000	100%	15,000	0	0% b
SS2	5.9710.700	Serial Bonds - Interest	0	0%	3,460	3,460	100%	3,460	0	0% b
BANs Total:			0	0%	18,460	18,460	100%	18,460	0	0%
Appropriations										
SS2	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	0%	18,460	18,460	100%	18,460	0	0%
SS2 Thompson Sewer Dist Total:			18,465		0	-18,465		5	5	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

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Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
1/1 - 1/31/2023 8%					Annual	Remaining	92%	Actual	Budget Var - %	
SS3 Megnin Farms Sewer										
Revenue										
Real Property Tax										
SS3	4.1001	Real Property Taxes	71,996	100%	0	-71,996	0%	71,996	71,996	100% a
Real Property Tax Total:			71,996	100%	0	-71,996	100%	71,996	71,996	100%
Use of Money and Property										
SS3	4.2401	Interest & Earnings	1	100%	0	-1	0%	1	1	100% a
Use of Money and Property Total:			1	100%	0	-1	100%	1	1	100%
Revenue Total:			71,997	100%	0	-71,997	100%	71,997	71,997	100%
Expense										
Sewer										
SS3	5.8110.400	Sewer Administration	0	100%	0	0	0%	0	0	100% b
Sewer Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	100%	0	0	100%	0	0	100%
SS3 Megnin Farms Sewer Total:			71,997		0	-71,997		71,997	71,997	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

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Budget Report - Fund Detail

		YTD Actual		Budget			Projected Year End			
		1/1 - 1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var - %		
SW1 Manlius Con Water Supply										
Revenue										
Real Property Tax										
SW1	4.1001	Real Property Taxes	1,030	100%	0	-1,030	0%	1,030	1,030	100% a
Real Property Tax Total:			1,030	100%	0	-1,030	100%	1,030	1,030	100%
Use of Money and Property										
SW1	4.2401	Interest & Earnings	17	100%	0	-17	0%	17	17	100% a
Use of Money and Property Total:			17	100%	0	-17	100%	17	17	100%
Miscellaneous Revenue										
SW1	4.2701	Refund of Prior Year Expendtrs	0	100%	0	0	0%	0	0	100% b
Miscellaneous Revenue Total:			0	100%	0	0	100%	0	0	100%
Appropriations										
SW1	4.9600	Appropriations Fund Balance	0	100%	0	0	0%	0	0	100% b
SW1	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SW1	4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100% b
SW1	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			1,047	100%	0	-1,047	100%	1,047	1,047	100%
Expense										
Water Admin										
SW1	5.8310.400	Water Admin - Contractual	0	100%	0	0	0%	0	0	100% b
Water Admin Total:			0	100%	0	0	100%	0	0	100%
Water Trans-Distrib										
SW1	5.8340.400	Trans/Dist - Contractual	0	100%	0	0	0%	0	0	100% b
Water Trans-Distrib Total:			0	100%	0	0	100%	0	0	100%
Appropriations										
SW1	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	100%	0	0	100%	0	0	100%
SW1 Manlius Con Water Supply Total:			1,047		0	-1,047		1,047	1,047	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

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Budget Report - Fund Detail

		YTD Actual		Budget			Projected Year End				
		1/1 -	1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var - %		
SW2 Manlius Con Water Dist											
Revenue											
Real Property Tax											
SW2	4.1001	Real Property Taxes		60,991	100%	0	-60,991	0%	60,991	60,991	100% a
Real Property Tax Total:				60,991	100%	0	-60,991	100%	60,991	60,991	100%
Intergovernmental Charges											
SW2	4.2378	T/CICERO Lease		0	100%	0	0	0%	0	0	100% b
Intergovernmental Charges Total:				0	100%	0	0	100%	0	0	100%
Use of Money and Property											
SW2	4.2401	Interest & Earnings		14	100%	0	-14	0%	14	14	100% a
Use of Money and Property Total:				14	100%	0	-14	100%	14	14	100%
Miscellaneous Revenue											
SW2	4.2701	Refund of Prior Year Expendtrs		0	100%	0	0	0%	0	0	100% b
Miscellaneous Revenue Total:				0	100%	0	0	100%	0	0	100%
Appropriations											
SW2	4.9600	Appropriations Fund Balance		0	100%	0	0	0%	0	0	100% b
SW2	4.9602	Bugetary Prov for Other Uses		0	100%	0	0	0%	0	0	100% b
SW2	4.9620	Budget Provisions - Other Uses		0	100%	0	0	0%	0	0	100% b
SW2	4.9800	Revenues		0	100%	0	0	0%	0	0	100% b
Appropriations Total:				0	100%	0	0	100%	0	0	100%
Revenue Total:				61,005	100%	0	-61,005	100%	61,005	61,005	100%
Expense											
Water Admin											
SW2	5.8310.400	Water Admin - Contractual		0	100%	0	0	0%	0	0	100% b
Water Admin Total:				0	100%	0	0	100%	0	0	100%
Water Trans-Distrib											
SW2	5.8340.400	Trans/Dist - Contractual		0	100%	0	0	0%	0	0	100% b
Water Trans-Distrib Total:				0	100%	0	0	100%	0	0	100%
Appropriations											
SW2	5.9602	Bugetary Prov - Fund Balance		0	100%	0	0	0%	0	0	100% b
Appropriations Total:				0	100%	0	0	100%	0	0	100%
Expense Total:				0	100%	0	0	100%	0	0	100%
SW2 Manlius Con Water Dist Total:				61,005		0	-61,005		61,005	61,005	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
			1/1 -	1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var - %
SW3 Skyridge Water Dist										
Revenue										
Real Property Tax										
SW3	4.1001	Real Property Taxes	11,173	100%	0	-11,173	0%	11,173	11,173	100% a
Real Property Tax Total:			11,173	100%	0	-11,173	100%	11,173	11,173	100%
Use of Money and Property										
SW3	4.2401	Interest & Earnings	59	100%	0	-59	0%	59	59	100% a
Use of Money and Property Total:			59	100%	0	-59	100%	59	59	100%
Miscellaneous Revenue										
SW3	4.2701	Refund of Prior Year Expendtrs	0	100%	0	0	0%	0	0	100% b
Miscellaneous Revenue Total:			0	100%	0	0	100%	0	0	100%
Appropriations										
SW3	4.9600	Appropriations Fund Balance	0	100%	0	0	0%	0	0	100% b
SW3	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SW3	4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100% b
SW3	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			11,232	100%	0	-11,232	100%	11,232	11,232	100%
Expense										
Water Admin										
SW3	5.8310.400	Water Admin - Contractual	0	100%	0	0	0%	0	0	100% b
Water Admin Total:			0	100%	0	0	100%	0	0	100%
Water Trans-Distrib										
SW3	5.8340.400	Trans/Dist - Contractual	0	100%	0	0	0%	0	0	100% b
Water Trans-Distrib Total:			0	100%	0	0	100%	0	0	100%
Appropriations										
SW3	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	100%	0	0	100%	0	0	100%
SW3 Skyridge Water Dist Total:			11,232		0	-11,232		11,232	11,232	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

		YTD Actual			Budget			Projected Year End		
		1/1 -	1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var -	%
SW4 Highbridge Water Dist										
Revenue										
Real Property Tax										
SW4	4.1001	Real Property Taxes	3,096	100%	0	-3,096	0%	3,096	3,096	100% a
Real Property Tax Total:			3,096	100%	0	-3,096	100%	3,096	3,096	100%
Use of Money and Property										
SW4	4.2401	Interest & Earnings	0	100%	0	0	0%	0	0	100% b
Use of Money and Property Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			3,096	100%	0	-3,096	100%	3,096	3,096	100%
Expense										
Water Trans-Distrib										
SW4	5.8340.400	Trans/Dist - Contractual	0	100%	0	0	0%	0	0	100% b
Water Trans-Distrib Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	100%	0	0	100%	0	0	100%
SW4 Highbridge Water Dist Total:			3,096		0	-3,096		3,096	3,096	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

		YTD Actual			Budget			Projected Year End		
		1/1 -	1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var -	%
TA1 Trust and Agency 1										
Revenue										
Use of Money and Property										
TA1	4.2401	Interest Earnings	106	100%	0	-106	0%	106	106	100% a
Use of Money and Property Total:			106	100%	0	-106	100%	106	106	100%
Appropriations										
TA1	4.9602	Budgetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			106	100%	0	-106	100%	106	106	100%
Expense										
Appropriations										
TA1	5.9602	Budgetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	100%	0	0	100%	0	0	100%
TA1 Trust and Agency 1 Total:			106		0	-106		106	106	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

		YTD Actual		Budget			Projected Year End		
		1/1 -	1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var - %
TA2 Trust and Agency 2									
Revenue									
Use of Money and Property									
TA2	4.2401	Earned Interest	438	100%	0	-438	0%	438	438 100% a
Use of Money and Property Total:			438	100%	0	-438	100%	438	438 100%
Appropriations									
TA2	4.9602	Budgetary Prov for Other Uses	0	100%	0	0	0%	0	0 100% b
Appropriations Total:			0	100%	0	0	100%	0	0 100%
Revenue Total:			438	100%	0	-438	100%	438	438 100%
Expense									
Appropriations									
TA2	5.9602	Budgetary Prov - Fund Balance	0	100%	0	0	0%	0	0 100% b
Appropriations Total:			0	100%	0	0	100%	0	0 100%
Expense Total:			0	100%	0	0	100%	0	0 100%
TA2 Trust and Agency 2 Total:			438		0	-438		438	438

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

		YTD Actual			Budget			Projected Year End			
		1/1 -	1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var - %		
W	Debt										
Revenue											
Appropriations											
W	4.9602	Bugetary Prov for Other Uses		0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Revenue Total:			0	100%	0	0	100%	0	0	100%	
Expense											
Appropriations											
W	5.9602	Bugetary Prov - Fund Balance		0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Expense Total:			0	100%	0	0	100%	0	0	100%	
W Debt Total:			0		0	0		0	0		

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

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Budget Report - Fund Detail

		YTD Actual			Budget			Projected Year End		
		1/1 -	1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var -	%
W80 Schepp Water Dist										
Revenue										
Real Property Tax										
W80	4.1001	Real Property Taxes	84	100%	0	-84	0%	84	84	100% a
Real Property Tax Total:			84	100%	0	-84	100%	84	84	100%
Use of Money and Property										
W80	4.2401	Interest & Earnings	2	100%	0	-2	0%	2	2	100% a
Use of Money and Property Total:			2	100%	0	-2	100%	2	2	100%
Appropriations										
W80	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
W80	4.9602	Budgetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
W80	4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100% b
W80	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			86	100%	0	-86	100%	86	86	100%
Expense										
Water Admin										
W80	5.8310.400	Water Admin - Contractual	0	100%	0	0	0%	0	0	100% b
Water Admin Total:			0	100%	0	0	100%	0	0	100%
Water Trans-Distrib										
W80	5.8340.400	Trans/Dist - Contractual	0	100%	0	0	0%	0	0	100% b
Water Trans-Distrib Total:			0	100%	0	0	100%	0	0	100%
Appropriations										
W80	5.9602	Budgetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	100%	0	0	100%	0	0	100%
W80 Schepp Water Dist Total:			86		0	-86		86	86	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.
m = YTD Monthly average projected to 12 months.
a = Actual YTD; b = Annual budget; p = Projected amount

Town of Manlius

Budget Report - Fund Detail

		YTD Actual			Budget			Projected Year End		
		1/1 -	1/31/2023	8%	Annual	Remaining	92%	Actual	Budget Var -	%
W90 Watervale Water Dist										
Revenue										
Real Property Tax										
W90	4.1001	Real Property Taxes	75	100%	0	-75	0%	75	75	100% a
Real Property Tax Total:			75	100%	0	-75	100%	75	75	100%
Use of Money and Property										
W90	4.2401	Interest & Earnings	6	100%	0	-6	0%	6	6	100% a
Use of Money and Property Total:			6	100%	0	-6	100%	6	6	100%
Appropriations										
W90	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
W90	4.9602	Budgetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
W90	4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100% b
W90	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			81	100%	0	-81	100%	81	81	100%
Expense										
Water Admin										
W90	5.8310.400	Water Admin - Contractual	0	100%	0	0	0%	0	0	100% b
Water Admin Total:			0	100%	0	0	100%	0	0	100%
Water Trans-Distrib										
W90	5.8340.400	Trans/Dist - Contractual	0	100%	0	0	0%	0	0	100% b
Water Trans-Distrib Total:			0	100%	0	0	100%	0	0	100%
BANs										
W90	5.9730.600	BAN - Principal	0	100%	0	0	0%	0	0	100% b
W90	5.9730.700	BAN - Interest	0	100%	0	0	0%	0	0	100% b
BANs Total:			0	100%	0	0	100%	0	0	100%
Appropriations										
W90	5.9602	Budgetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	100%	0	0	100%	0	0	100%
W90 Watervale Water Dist Total:			81		0	-81		81	81	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

3/13/2023

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TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

999-Pooled Cash

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
999-1.100	Pooled Cash - Investing	7,473,811.89	2,647,869.22	14,453,074.70	21,926,886.59
999-1.101	Pooled Cash - Checking	45,511.04	13,280.41	13,309.81	58,820.85
999-1.102	Pooled Cash - Payroll	148,880.80	12,135.27CR	8,964.17CR	139,916.63
999-1.103	HSBC Pooled Savings	0.00	0.00	0.00	0.00
999-1.104	HSBC Pooled Checking	0.00	0.00	0.00	0.00
999-1.105	HSBC Payroll Checking	0.00	0.00	0.00	0.00
999-1.201	Pathfinder Bank CD	0.00	0.00	0.00	0.00
999-1.390	Due From Other Funds	<u>152,908.63</u>	<u>25,812.43CR</u>	<u>148,268.94CR</u>	<u>4,639.69</u>
	TOTAL ASSETS	7,821,112.36	2,623,201.93	14,309,151.40	22,130,263.76
		=====	=====	=====	=====
<u>LIABILITIES</u>					
999-2.600	Accounts Payable	152,908.63CR	25,812.43	148,268.94	4,639.69CR
999-2.630	Due To Other Funds	<u>7,668,203.73CR</u>	<u>2,649,014.36CR</u>	<u>14,457,420.34CR</u>	<u>22,125,624.07CR</u>
	TOTAL LIABILITIES	7,821,112.36CR	2,623,201.93CR	14,309,151.40CR	22,130,263.76CR
<u>FUND EQUITY</u>					
999-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
999-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	0.00	0.00	0.00	0.00
	TOTAL LIABILITIES & EQUITY	7,821,112.36CR	2,623,201.93CR	14,309,151.40CR	22,130,263.76CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

A00-General Fund Townwide

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
A00-1.200	Claim on Pooled Cash and CD's	3,115,988.69	8,479,579.12	7,985,733.19	11,101,721.88
A00-1.205	M&T Bank - Ebay Acct	162.76	0.00	0.00	162.76
A00-1.210	Petty Cash	500.00	0.00	0.00	500.00
A00-1.220	Petty Cash - Court	50.00	0.00	0.00	50.00
A00-1.250	Taxes Receivable Current	0.00	8,521,338.99CR	2,546.14	2,546.14
A00-1.380	Accounts Receivable	6,836.93	0.00	0.00	6,836.93
A00-1.391	Due From Other Funds	0.00	0.00	0.00	0.00
A00-1.410	Due From State & Federal	5,225.71	0.00	0.00	5,225.71
A00-1.440	Due From Other Governments	489,115.72	0.00	489,115.72CR	0.00
A00-1.441	Due From Other Gov't - Court	0.00	0.00	0.00	0.00
A00-1.480	Prepaid Expenditures	1,204,845.78	0.00	1,204,845.78CR	0.00
A00-1.482	Unemployment Insurance Credits	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	4,822,725.59	41,759.87CR	6,294,317.83	11,117,043.42
		=====	=====	=====	=====
<u>LIABILITIES</u>					
A00-2.600	Pooled Accounts Payable	52,874.24CR	11,098.52	52,671.22	203.02CR
A00-2.601	Accrued Liabilities	155,998.30CR	0.00	155,998.30	0.00
A00-2.626	BAN's Payable	0.00	0.00	0.00	0.00
A00-2.630	Due to Other Funds	0.00	0.00	0.00	0.00
A00-2.631	Due to Other Governments	1,973.00CR	11,578.75	1,973.00	0.00
A00-2.655		0.00	0.00	0.00	0.00
A00-2.688	Other Liabilities	1,009,209.92CR	0.00	0.00	1,009,209.92CR
A00-2.690	Overpayments and Clearing Acct	0.00	6,288.00CR	5,494.75CR	5,494.75CR
A00-2.691	Deferred Revenue	0.00	0.00	0.00	0.00
A00-2.700	Rec Dept Clearing Acct	<u>13,391.52CR</u>	<u>3,079.05CR</u>	<u>15,022.68CR</u>	<u>28,414.20CR</u>
	TOTAL LIABILITIES	1,233,446.98CR	13,310.22	190,125.09	1,043,321.89CR
<u>FUND EQUITY</u>					
A00-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
A00-3.806	Not in Spendable Form	1,204,845.78CR	0.00	0.00	1,204,845.78CR
A00-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
A00-3.884	Reserved for Debt	0.00	0.00	0.00	0.00
A00-3.899	Unrestricted Fund Balance	0.00	0.00	0.00	0.00
A00-3.909	Unappropriated Fund Balance	650,509.99CR	0.00	0.00	650,509.99CR
A00-3.913	Committed Fund Balance	0.00	0.00	0.00	0.00
A00-3.914	Assigned Approp Fund Balance	870,000.00CR	0.00	0.00	870,000.00CR
A00-3.915	Assigned Unapp Fund Balance	10,742.98	0.00	0.00	10,742.98
A00-3.917	Unassigned Fund Balance	874,665.82CR	0.00	0.00	874,665.82CR
A00-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	623,734.00CR	9,151,142.55CR	9,151,142.55CR
	TOTAL REVENUES	<u>0.00</u>	<u>652,183.65</u>	<u>2,666,699.63</u>	<u>2,666,699.63</u>
	TOTAL FUND EQUITY	3,589,278.61CR	28,449.65	6,484,442.92CR	10,073,721.53CR
	TOTAL LIABILITIES & EQUITY	4,822,725.59CR	41,759.87	6,294,317.83CR	11,117,043.42CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

B00-General Fund Part Town

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
B00-1.200	Claim on Pooled Cash and CD's	250,206.44	27,763.67CR	112,551.17	362,757.61
B00-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
B00-1.391	Due From Other Funds	0.00	0.00	0.00	0.00
B00-1.410	Due From State & Federal	0.00	0.00	0.00	0.00
B00-1.440	Due From Other Governments	0.00	0.00	0.00	0.00
B00-1.480	Prepaid Expenditures	<u>8,353.99</u>	<u>0.00</u>	<u>8,354.00CR</u>	<u>0.01CR</u>
	TOTAL ASSETS	258,560.43	27,763.67CR	104,197.17	362,757.60
		=====	=====	=====	=====
<u>LIABILITIES</u>					
B00-2.600	Pooled Accounts Payable	104.22CR	0.00	104.22	0.00
B00-2.601	Accrued Liabilities	0.00	0.00	0.00	0.00
B00-2.630	Due to Other Funds	0.00	0.00	0.00	0.00
B00-2.691	Deferred Revenues	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	104.22CR	0.00	104.22	0.00
<u>FUND EQUITY</u>					
B00-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
B00-3.806	Not in Spendable Form	8,353.99CR	0.00	0.00	8,353.99CR
B00-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
B00-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
B00-3.914	Assigned Approp Fund Balance	175,000.00CR	0.00	0.00	175,000.00CR
B00-3.915	Assigned Unapp Fund Balance	182,816.18CR	0.00	0.00	182,816.18CR
B00-3.917	Unassigned Fund Balance	107,713.96	0.00	0.00	107,713.96
B00-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	3,531.47CR	175,920.56CR	175,920.56CR
	TOTAL REVENUES	<u>0.00</u>	<u>31,295.14</u>	<u>71,619.17</u>	<u>71,619.17</u>
	TOTAL FUND EQUITY	258,456.21CR	27,763.67	104,301.39CR	362,757.60CR
	TOTAL LIABILITIES & EQUITY	258,560.43CR	27,763.67	104,197.17CR	362,757.60CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

CM1-Police Special Revenue

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
CM1-1.200	Claim on Pooled Cash and CD's	1,952.05	0.00	0.00	1,952.05
CM1-1.201	Police Revenue	6,303.16	4.85	10.20	6,313.36
CM1-1.202	Police Reserve - AED/Donations	3,275.91	2.51	5.30	3,281.21
CM1-1.203	Police Reserve - Stop DWI	48,591.14	51.17	18,136.11	66,727.25
CM1-1.204	Police Reserve - Equipment	0.00	0.00	0.00	0.00
CM1-1.391	Due From Other Funds	0.00	0.00	0.00	0.00
CM1-1.410	Due From State & Federal	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL ASSETS		60,122.26	58.53	18,151.61	78,273.87
		=====	=====	=====	=====
<u>LIABILITIES</u>					
CM1-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
CM1-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL LIABILITIES		0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
CM1-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
CM1-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
CM1-3.909	Unappropriated Fund Balance	1,311.78	0.00	0.00	1,311.78
CM1-3.909.Fund Balance - Drug Enforcemnt		0.00	0.00	0.00	0.00
CM1-3.909.Fund Balance - Police Equipmnt		0.00	0.00	0.00	0.00
CM1-3.909.Fund Balance - DWI Equipment		0.00	0.00	0.00	0.00
CM1-3.909.Fund Balance - Defibrillators		0.00	0.00	0.00	0.00
CM1-3.909.Fund Balance - Wall of Honor		0.00	0.00	0.00	0.00
CM1-3.915	Assigned Unapp Fund Balance	61,434.04CR	0.00	0.00	61,434.04CR
CM1-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
TOTAL REVENUES		0.00	58.53CR	18,151.61CR	18,151.61CR
TOTAL REVENUES		<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL FUND EQUITY		60,122.26CR	58.53CR	18,151.61CR	78,273.87CR
TOTAL LIABILITIES & EQUITY		60,122.26CR	58.53CR	18,151.61CR	78,273.87CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

CM2-MS4 Flood Water Study

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
CM2-1.200	Claim on Pooled Cash and CD's	0.00	0.00	0.00	0.00
CM2-1.201	MS 4	4,762.68	3.66	7.70	4,770.38
CM2-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
CM2-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	4,762.68	3.66	7.70	4,770.38
		=====	=====	=====	=====
<u>LIABILITIES</u>					
CM2-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
CM2-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
CM2-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
CM2-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
CM2-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
CM2-3.915	Assigned Unapp Fund Balance	4,762.68CR	0.00	0.00	4,762.68CR
CM2-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	3.66CR	7.70CR	7.70CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	4,762.68CR	3.66CR	7.70CR	4,770.38CR
	TOTAL LIABILITIES & EQUITY	4,762.68CR	3.66CR	7.70CR	4,770.38CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

CM3-Sustainable Manlius

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
CM3-1.200	Claim on Pooled Cash	238.95	0.00	0.00	238.95
CM3-1.201	Publicity Acct-Sustain Manlius	10,881.99	7,561.86	7,570.83	18,452.82
CM3-1.391	Due From other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	11,120.94	7,561.86	7,570.83	18,691.77
		=====	=====	=====	=====
<u>LIABILITIES</u>					
CM3-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
CM3-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
CM3-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
CM3-3.915	Assigned Unapp Fund Balance	11,120.94CR	0.00	0.00	11,120.94CR
	TOTAL REVENUES	0.00	7,561.86CR	7,570.83CR	7,570.83CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	11,120.94CR	7,561.86CR	7,570.83CR	18,691.77CR
	TOTAL LIABILITIES & EQUITY	11,120.94CR	7,561.86CR	7,570.83CR	18,691.77CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

CM4-Court Special Revenue

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
CM4-1.200	Claim on Pooled Cash and CD's	0.00	0.00	0.00	0.00
CM4-1.201	DWI Arraignments	3,300.74	83.68CR	209.22	3,509.96
CM4-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	3,300.74	83.68CR	209.22	3,509.96
		=====	=====	=====	=====
<u>LIABILITIES</u>					
CM4-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
CM4-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
CM4-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
CM4-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
CM4-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
CM4-3.915	Assigned Unapp Fund Balance	3,300.74CR	0.00	0.00	3,300.74CR
CM4-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	2.74CR	295.64CR	295.64CR
	TOTAL REVENUES	<u>0.00</u>	<u>86.42</u>	<u>86.42</u>	<u>86.42</u>
	TOTAL FUND EQUITY	3,300.74CR	83.68	209.22CR	3,509.96CR
	TOTAL LIABILITIES & EQUITY	3,300.74CR	83.68	209.22CR	3,509.96CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

CM5-Parkland Trust

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
CM5-1.200	Claim on	0.00	0.00	0.00	0.00
CM5-1.201	Parkland Fees	46,489.92	35.71	75.21	46,565.13
CM5-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	46,489.92	35.71	75.21	46,565.13
		=====	=====	=====	=====
<u>LIABILITIES</u>					
CM5-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
CM5-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
CM5-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
CM5-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
CM5-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
CM5-3.913	Committed Fund Balance	0.09CR	0.00	0.00	0.09CR
CM5-3.915	Assigned Unapp Fund Balance	46,489.83CR	0.00	0.00	46,489.83CR
CM5-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	35.71CR	75.21CR	75.21CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	46,489.92CR	35.71CR	75.21CR	46,565.13CR
	TOTAL LIABILITIES & EQUITY	46,489.92CR	35.71CR	75.21CR	46,565.13CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

DA0-Highway Fund Townwide

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
DA0-1.201	Claim on Pooled Cash and CD's	1,558,048.83	429,637.12CR	1,662,222.37	3,220,271.20
DA0-1.201	Claim on Pooled Cash - TEMP	0.00	0.00	0.00	0.00
DA0-1.231	Savings - Salt Storage Reserve	75,000.00	0.00	0.00	75,000.00
DA0-1.380	Accounts Receivable	15.00	0.00	0.00	15.00
DA0-1.391	Due From Other Funds	0.00	0.00	0.00	0.00
DA0-1.410	Due From State & Federal	0.00	0.00	0.00	0.00
DA0-1.440	Due From Other Governments	0.00	0.00	0.00	0.00
DA0-1.480	Prepaid Expenses	<u>82,979.00</u>	<u>0.00</u>	<u>82,979.00CR</u>	<u>0.00</u>
TOTAL ASSETS		1,716,042.83	429,637.12CR	1,579,243.37	3,295,286.20
		=====	=====	=====	=====
<u>LIABILITIES</u>					
DA0-2.600	Pooled Accounts Payable	97,904.32CR	13,376.71	94,039.13	3,865.19CR
DA0-2.601	Accrued Liabilities	148,863.40CR	0.00	148,863.40	0.00
DA0-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL LIABILITIES		246,767.72CR	13,376.71	242,902.53	3,865.19CR
<u>FUND EQUITY</u>					
DA0-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
DA0-3.806	Not in Spendable Form	82,979.00CR	0.00	0.00	82,979.00CR
DA0-3.878	Capital Reserve Balance	75,000.00CR	0.00	0.00	75,000.00CR
DA0-3.899	Restricted Fund Balance	0.00	0.00	0.00	0.00
DA0-3.909	Unappropriated Fund Balance	303,624.12	0.00	0.00	303,624.12
DA0-3.914	Assigned Approp Fund Balance	100,000.00CR	0.00	0.00	100,000.00CR
DA0-3.915	Assigned Unapp Fund Balance	1,514,920.23CR	0.00	0.00	1,514,920.23CR
DA0-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
DA0-3.995	Capital Equiprmnt Fund	0.00	0.00	0.00	0.00
TOTAL REVENUES		0.00	2,357.11CR	2,371,716.08CR	2,371,716.08CR
TOTAL REVENUES		<u>0.00</u>	<u>418,617.52</u>	<u>549,570.18</u>	<u>549,570.18</u>
TOTAL FUND EQUITY		1,469,275.11CR	416,260.41	1,822,145.90CR	3,291,421.01CR
TOTAL LIABILITIES & EQUITY		1,716,042.83CR	429,637.12	1,579,243.37CR	3,295,286.20CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

DB0-Highway -Part Town

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
DB0-1.200	Claim on Pooled Cash and CD's	1,352,723.15	4,441.35CR	1,980,440.74	3,333,163.89
DB0-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
DB0-1.391	Due From Other Funds	0.00	0.00	0.00	0.00
DB0-1.410	Due From State & Federal	0.00	0.00	0.00	0.00
DB0-1.440	Due From Other Governments	0.00	0.00	0.00	0.00
DB0-1.480	Prepaid Expenses	<u>82,979.00</u>	<u>0.00</u>	<u>82,979.00CR</u>	<u>0.00</u>
	TOTAL ASSETS	1,435,702.15	4,441.35CR	1,897,461.74	3,333,163.89
		=====	=====	=====	=====
<u>LIABILITIES</u>					
DB0-2.600	Pooled Accounts Payable	2,025.85CR	1,337.20	1,454.37	571.48CR
DB0-2.601	Accrued Liabilities	0.00	0.00	0.00	0.00
DB0-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	2,025.85CR	1,337.20	1,454.37	571.48CR
<u>FUND EQUITY</u>					
DB0-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
DB0-3.806	Not in Spendable Form	82,979.00CR	0.00	0.00	82,979.00CR
DB0-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
DB0-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
DB0-3.914	Assigned Approp Fund Balance	200,000.00CR	0.00	0.00	200,000.00CR
DB0-3.915	Assigned Unapp Fund Balance	1,150,697.30CR	0.00	0.00	1,150,697.30CR
DB0-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	2,083.65CR	1,986,999.26CR	1,986,999.26CR
	TOTAL REVENUES	<u>0.00</u>	<u>5,187.80</u>	<u>88,083.15</u>	<u>88,083.15</u>
	TOTAL FUND EQUITY	1,433,676.30CR	3,104.15	1,898,916.11CR	3,332,592.41CR
	TOTAL LIABILITIES & EQUITY	1,435,702.15CR	4,441.35	1,897,461.74CR	3,333,163.89CR
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TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

HA0-Landfill Capital Fund

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
HA0-1.200	Claim on Pooled Cash and CD's	0.00	0.00	0.00	0.00
HA0-1.201	Landfill - Capital Outlay Cash	20,599.95	19.32	40.68	20,640.63
HA0-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	20,599.95	19.32	40.68	20,640.63
		=====	=====	=====	=====
<u>LIABILITIES</u>					
HA0-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
HA0-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
HA0-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
HA0-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
HA0-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
HA0-3.915	Assigned Unapp Fund Balance	20,599.95CR	0.00	0.00	20,599.95CR
HA0-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	19.32CR	40.68CR	40.68CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	20,599.95CR	19.32CR	40.68CR	20,640.63CR
	TOTAL LIABILITIES & EQUITY	20,599.95CR	19.32CR	40.68CR	20,640.63CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

HB0-Watervale Rd Water Ext

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
HB0-1.200	Claim on Pooled Cash and CD's	0.00	0.00	0.00	0.00
HB0-1.201	Watervale - Capital Otly Cash	0.00	0.00	0.00	0.00
HB0-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	0.00	0.00	0.00	0.00
		=====	=====	=====	=====
<u>LIABILITIES</u>					
HB0-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
HB0-2.626	BAN'S Payable	0.00	0.00	0.00	0.00
HB0-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
HB0-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
HB0-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
HB0-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
HB0-3.915	Assigned Unapp Fund Balance	0.00	0.00	0.00	0.00
HB0-3.917	Unassigned Fund Balance	0.00	0.00	0.00	0.00
HB0-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	0.00	0.00	0.00	0.00
	TOTAL LIABILITIES & EQUITY	0.00	0.00	0.00	0.00
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

HD0-Thompson Sewer District

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
HD0-1.200	Claim on Pooled Cash and CD's	3.86	0.00	0.00	3.86
HD0-1.201	Thompson - Capital Outlay Cash	4,542.99	0.00	0.00	4,542.99
HD0-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	4,546.85	0.00	0.00	4,546.85
		=====	=====	=====	=====
<u>LIABILITIES</u>					
HD0-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
HD0-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
HD0-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
HD0-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
HD0-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
HD0-3.915	Assigned Unapp Fund Balance	4,546.85CR	0.00	0.00	4,546.85CR
HD0-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	4,546.85CR	0.00	0.00	4,546.85CR
	TOTAL LIABILITIES & EQUITY	4,546.85CR	0.00	0.00	4,546.85CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

HE0-Salt Storage Facility

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
HE0-1.200	Claim on Pooled Cash and CD's	340.01	239.34	392.65	732.66
HE0-1.201	Salt Strg - Capital Outly Cash	0.00	0.00	0.00	0.00
HE0-1.220	Cash From Obligations	0.00	0.00	0.00	0.00
HE0-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	340.01	239.34	392.65	732.66
		=====	=====	=====	=====
<u>LIABILITIES</u>					
HE0-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
HE0-2.626	BAN'S Payable	0.00	0.00	0.00	0.00
HE0-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
HE0-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
HE0-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
HE0-3.884	Reserved for Debt	0.00	0.00	0.00	0.00
HE0-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
HE0-3.915	Assigned Unapp Fund Balance	340.01CR	0.00	0.00	340.01CR
HE0-3.917	Unassigned Fund Balance	0.00	0.00	0.00	0.00
HE0-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	239.34CR	392.65CR	392.65CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	340.01CR	239.34CR	392.65CR	732.66CR
	TOTAL LIABILITIES & EQUITY	340.01CR	239.34CR	392.65CR	732.66CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

HG0-Highway Gararge Roof

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
HG0-1.200	Claim on Pooled Cash and CD's	28,848.50	55.54	91.11	28,939.61
HG0-1.220	Cash From Obligations	0.00	0.00	0.00	0.00
HG0-1.390	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	28,848.50	55.54	91.11	28,939.61
		=====	=====	=====	=====
<u>LIABILITIES</u>					
HG0-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
HG0-2.626	BAN's Payable	0.00	0.00	0.00	0.00
HG0-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
HG0-3.884	Reserved For Debt	0.00	0.00	0.00	0.00
HG0-3.917	Unassigned Fund Balance	28,848.50CR	0.00	0.00	28,848.50CR
	TOTAL REVENUES	0.00	55.54CR	91.11CR	91.11CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	28,848.50CR	55.54CR	91.11CR	28,939.61CR
	TOTAL LIABILITIES & EQUITY	28,848.50CR	55.54CR	91.11CR	28,939.61CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

HH0-Highway Eqpt Reserve Fund

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
HH0-1.200	Claim on Pooled Cash and CDs	0.00	0.00	0.00	0.00
HH0-1.201	Highway Eqpt Reserve	0.00	0.00	0.00	0.00
HH0-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL ASSETS		0.00	0.00	0.00	0.00
		=====	=====	=====	=====
<u>LIABILITIES</u>					
HH0-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
HH0-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL LIABILITIES		0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
HH0-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
HH0-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
HH0-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
HH0-3.915	Assigned Unapp Fund Balance	0.00	0.00	0.00	0.00
HH0-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
TOTAL REVENUES		0.00	0.00	0.00	0.00
TOTAL REVENUES		<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL FUND EQUITY		0.00	0.00	0.00	0.00
TOTAL LIABILITIES & EQUITY		0.00	0.00	0.00	0.00
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

HW0-Town Hall Windows

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
HW0-1.200	Claim on Pooled Cash and CD's	0.00	0.00	0.00	0.00
HW0-1.220	Cash from Obligations	0.00	0.00	0.00	0.00
HW0-1.390	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	0.00	0.00	0.00	0.00
		=====	=====	=====	=====
<u>LIABILITIES</u>					
HW0-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
HW0-2.626	BAN's Payable	0.00	0.00	0.00	0.00
HW0-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
HW0-3.884	Reserve for Debt Fund	0.00	0.00	0.00	0.00
HW0-3.917	Unassigned Fund Balance	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	0.00	0.00	0.00	0.00
	TOTAL LIABILITIES & EQUITY	0.00	0.00	0.00	0.00
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

K -Fixed Assets

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
K-1.101	Land	0.00	0.00	0.00	0.00
K-1.102	Buildings	0.00	0.00	0.00	0.00
K-1.103	Improvements other than Bldgs	0.00	0.00	0.00	0.00
K-1.104	Machinery and Eqpt	0.00	0.00	0.00	0.00
K-1.105	CWIP	0.00	0.00	0.00	0.00
K-1.106	Infrastructure	0.00	0.00	0.00	0.00
K-1.107	Other Capital Assets	0.00	0.00	0.00	0.00
K-1.112	Accum Deprec - Bldgs	0.00	0.00	0.00	0.00
K-1.113	Accum Deprec - Other than bldg	0.00	0.00	0.00	0.00
K-1.114	Accum Deprec - Mach and Eqpt	0.00	0.00	0.00	0.00
K-1.116	Accum Deprec - Infrastructure	0.00	0.00	0.00	0.00
K-1.117	Accum Deprec - Other	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	0.00	0.00	0.00	0.00
		=====	=====	=====	=====
<u>FUND EQUITY</u>					
K-3.900	Net Assets Invested	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	(WILL CLOSE TO FUND BAL.)	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	0.00	0.00	0.00	0.00
	TOTAL LIABILITIES & EQUITY	0.00	0.00	0.00	0.00
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

SD1-Consolidated Drainage #1

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SD1-1.200	Claim on Pooled Cash and CD's	257,824.18	359.73	66,365.15	324,189.33
SD1-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	257,824.18	359.73	66,365.15	324,189.33
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SD1-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SD1-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SD1-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SD1-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SD1-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SD1-3.915	Assigned Unapp Fund Balance	257,824.18CR	0.00	0.00	257,824.18CR
SD1-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	359.73CR	66,365.15CR	66,365.15CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	257,824.18CR	359.73CR	66,365.15CR	324,189.33CR
	TOTAL LIABILITIES & EQUITY	257,824.18CR	359.73CR	66,365.15CR	324,189.33CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

SD2-Donsolidated Drainage #2

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SD2-1.200	Claim on Pooled Cash and CD's	234,824.37	176.50	34,687.03	269,511.40
SD2-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	234,824.37	176.50	34,687.03	269,511.40
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SD2-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SD2-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SD2-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SD2-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SD2-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SD2-3.915	Assigned Unapp Fund Balance	234,824.37CR	0.00	0.00	234,824.37CR
SD2-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	176.50CR	34,687.03CR	34,687.03CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	234,824.37CR	176.50CR	34,687.03CR	269,511.40CR
	TOTAL LIABILITIES & EQUITY	234,824.37CR	176.50CR	34,687.03CR	269,511.40CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

SD3-Consolidated Drainage #3

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SD3-1.200	Claim on Pooled Cash and CD's	385,380.02	436.53	86,348.11	471,728.13
SD3-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	385,380.02	436.53	86,348.11	471,728.13
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SD3-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SD3-2.601	Accrued Liabilities	0.00	0.00	0.00	0.00
SD3-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SD3-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SD3-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SD3-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SD3-3.915	Assigned Unapp Fund Balance	385,380.02CR	0.00	0.00	385,380.02CR
SD3-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	816.53CR	89,558.11CR	89,558.11CR
	TOTAL REVENUES	<u>0.00</u>	<u>380.00</u>	<u>3,210.00</u>	<u>3,210.00</u>
	TOTAL FUND EQUITY	385,380.02CR	436.53CR	86,348.11CR	471,728.13CR
	TOTAL LIABILITIES & EQUITY	385,380.02CR	436.53CR	86,348.11CR	471,728.13CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

SF1-Fayetteville Fire Protect

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SF1-1.200	Claim on Pooled Cash and CD's	2,925.70	1,994,069.67CR	47.60	2,973.30
SF1-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	2,925.70	1,994,069.67CR	47.60	2,973.30
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SF1-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SF1-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SF1-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SF1-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SF1-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SF1-3.915	Assigned Unapp Fund Balance	2,925.70CR	0.00	0.00	2,925.70CR
SF1-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	5.33CR	1,994,122.60CR	1,994,122.60CR
	TOTAL REVENUES	<u>0.00</u>	<u>1,994,075.00</u>	<u>1,994,075.00</u>	<u>1,994,075.00</u>
	TOTAL FUND EQUITY	2,925.70CR	1,994,069.67	47.60CR	2,973.30CR
	TOTAL LIABILITIES & EQUITY	2,925.70CR	1,994,069.67	47.60CR	2,973.30CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

SF2-Manlius Fire Protection

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SF2-1.200	Claim on Pooled Cash and CD's	11,026.95	1,582,395.89CR	89.63	11,116.58
SF2-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	11,026.95	1,582,395.89CR	89.63	11,116.58
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SF2-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SF2-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SF2-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SF2-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SF2-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SF2-3.915	Assigned Unapp Fund Balance	11,026.95CR	0.00	0.00	11,026.95CR
SF2-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	20.66CR	1,582,506.18CR	1,582,506.18CR
	TOTAL REVENUES	<u>0.00</u>	<u>1,582,416.55</u>	<u>1,582,416.55</u>	<u>1,582,416.55</u>
	TOTAL FUND EQUITY	11,026.95CR	1,582,395.89	89.63CR	11,116.58CR
	TOTAL LIABILITIES & EQUITY	11,026.95CR	1,582,395.89	89.63CR	11,116.58CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

SF3-Minoa Fire Protection

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SF3-1.200	Claim on Pooled Cash and CD's	1,741.37	1,241,690.05CR	45.98	1,787.35
SF3-1.391	Due From Other Funds	0.00	0.00	0.00	0.00
SF3-1.440	Due From Other Governments	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	1,741.37	1,241,690.05CR	45.98	1,787.35
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SF3-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SF3-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SF3-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SF3-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SF3-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SF3-3.915	Assigned Unapp Fund Balance	1,741.37CR	0.00	0.00	1,741.37CR
SF3-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	2.95CR	1,241,738.98CR	1,241,738.98CR
	TOTAL REVENUES	<u>0.00</u>	<u>1,241,693.00</u>	<u>1,241,693.00</u>	<u>1,241,693.00</u>
	TOTAL FUND EQUITY	1,741.37CR	1,241,690.05	45.98CR	1,787.35CR
	TOTAL LIABILITIES & EQUITY	1,741.37CR	1,241,690.05	45.98CR	1,787.35CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

SF4-Kirkville Fire Department

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SF4-1.200	Claim on Pooled Cash and CD's	<u>10.58</u>	<u>238,807.00CR</u>	<u>8.25</u>	<u>18.83</u>
	TOTAL ASSETS	10.58	238,807.00CR	8.25	18.83
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SF4-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SF4-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SF4-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SF4-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SF4-3.915	Assigned Unapp Fund Balance	10.58CR	0.00	0.00	10.58CR
SF4-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	238,815.25CR	238,815.25CR
	TOTAL REVENUES	<u>0.00</u>	<u>238,807.00</u>	<u>238,807.00</u>	<u>238,807.00</u>
	TOTAL FUND EQUITY	10.58CR	238,807.00	8.25CR	18.83CR
	TOTAL LIABILITIES & EQUITY	10.58CR	238,807.00	8.25CR	18.83CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

SL1-Overhead Lighting

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SL1-1.200	Claim on Pooled Cash and CD's	7,144.44	1,793.61CR	21,453.12	28,597.56
SL1-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	7,144.44	1,793.61CR	21,453.12	28,597.56
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SL1-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SL1-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SL1-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SL1-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SL1-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SL1-3.915	Assigned Unapp Fund Balance	7,144.44CR	0.00	0.00	7,144.44CR
SL1-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	41.05CR	25,077.46CR	25,077.46CR
	TOTAL REVENUES	<u>0.00</u>	<u>1,834.66</u>	<u>3,624.34</u>	<u>3,624.34</u>
	TOTAL FUND EQUITY	7,144.44CR	1,793.61	21,453.12CR	28,597.56CR
	TOTAL LIABILITIES & EQUITY	7,144.44CR	1,793.61	21,453.12CR	28,597.56CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

SL2-Underground Lighting

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SL2-1.200	Claim on Pooled Cash and CD's	9,187.98	2,499.19CR	28,060.84	37,248.82
SL2-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	9,187.98	2,499.19CR	28,060.84	37,248.82
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SL2-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SL2-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SL2-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SL2-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SL2-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SL2-3.915	Assigned Unapp Fund Balance	9,187.98CR	0.00	0.00	9,187.98CR
SL2-3.917	Unassigned Fund Balance	0.00	0.00	0.00	0.00
SL2-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	7.05CR	33,015.85CR	33,015.85CR
	TOTAL REVENUES	<u>0.00</u>	<u>2,506.24</u>	<u>4,955.01</u>	<u>4,955.01</u>
	TOTAL FUND EQUITY	9,187.98CR	2,499.19	28,060.84CR	37,248.82CR
	TOTAL LIABILITIES & EQUITY	9,187.98CR	2,499.19	28,060.84CR	37,248.82CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

SL3-Entry Lighting

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SL3-1.200	Claim on Pooled Cash and CD's	4,650.56	111.66CR	1,480.29	6,130.85
SL3-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	4,650.56	111.66CR	1,480.29	6,130.85
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SL3-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SL3-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SL3-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SL3-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SL3-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SL3-3.915	Assigned Unapp Fund Balance	4,650.56CR	0.00	0.00	4,650.56CR
SL3-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	10.02CR	1,720.40CR	1,720.40CR
	TOTAL REVENUES	<u>0.00</u>	<u>121.68</u>	<u>240.11</u>	<u>240.11</u>
	TOTAL FUND EQUITY	4,650.56CR	111.66	1,480.29CR	6,130.85CR
	TOTAL LIABILITIES & EQUITY	4,650.56CR	111.66	1,480.29CR	6,130.85CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

SL4-Garden Park Lighting

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SL4-1.200	Claim on Pooled Cash and CD's	359.77	706.21CR	8,592.73	8,952.50
SL4-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	359.77	706.21CR	8,592.73	8,952.50
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SL4-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SL4-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SL4-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SL4-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SL4-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SL4-3.915	Assigned Unapp Fund Balance	359.77CR	0.00	0.00	359.77CR
SL4-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	1.35CR	10,003.13CR	10,003.13CR
	TOTAL REVENUES	<u>0.00</u>	<u>707.56</u>	<u>1,410.40</u>	<u>1,410.40</u>
	TOTAL FUND EQUITY	359.77CR	706.21	8,592.73CR	8,952.50CR
	TOTAL LIABILITIES & EQUITY	359.77CR	706.21	8,592.73CR	8,952.50CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

SL5-Ratnour Bridge Lighting

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SL5-1.200	Claim on Pooled Cash and CD's	24,959.76	2,743.15CR	31,582.81	56,542.57
SL5-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	24,959.76	2,743.15CR	31,582.81	56,542.57
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SL5-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SL5-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SL5-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SL5-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SL5-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SL5-3.915	Assigned Unapp Fund Balance	24,959.76CR	0.00	0.00	24,959.76CR
SL5-3.917	Unassigned Fund Balance	0.00	0.00	0.00	0.00
SL5-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	15.05CR	37,036.28CR	37,036.28CR
	TOTAL REVENUES	<u>0.00</u>	<u>2,758.20</u>	<u>5,453.47</u>	<u>5,453.47</u>
	TOTAL FUND EQUITY	24,959.76CR	2,743.15	31,582.81CR	56,542.57CR
	TOTAL LIABILITIES & EQUITY	24,959.76CR	2,743.15	31,582.81CR	56,542.57CR
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TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

SR1-Manlius Res Trash Dist

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SR1-1.200	Claim on Pooled Cash and CD's	69,501.04	202,795.46CR	2,079,794.65	2,149,295.69
SR1-1.391	Due From Other Funds	0.00	0.00	0.00	0.00
SR1-1.480	Prepaid Expenses	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	69,501.04	202,795.46CR	2,079,794.65	2,149,295.69
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SR1-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SR1-2.601	Accrued Liabilities	0.00	0.00	0.00	0.00
SR1-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SR1-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SR1-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SR1-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SR1-3.915	Assigned Unapp Fund Balance	69,501.04CR	0.00	0.00	69,501.04CR
SR1-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	2,971.91CR	2,491,329.39CR	2,491,329.39CR
	TOTAL REVENUES	<u>0.00</u>	<u>205,767.37</u>	<u>411,534.74</u>	<u>411,534.74</u>
	TOTAL FUND EQUITY	69,501.04CR	202,795.46	2,079,794.65CR	2,149,295.69CR
	TOTAL LIABILITIES & EQUITY	69,501.04CR	202,795.46	2,079,794.65CR	2,149,295.69CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

SR2-Manlius Res Brush Dist

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SR2-1.200	Claim on Pooled Cash and CD's	11,059.30	25,203.18CR	266,743.90	277,803.20
SR2-1.391	Due From Other Funds	0.00	0.00	0.00	0.00
SR2-1.480	Prepaid Expenses	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	11,059.30	25,203.18CR	266,743.90	277,803.20
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SR2-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SR2-2.601	Accrued Liabilities	0.00	0.00	0.00	0.00
SR2-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SR2-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SR2-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SR2-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SR2-3.915	Assigned Unapp Fund Balance	11,059.30CR	0.00	0.00	11,059.30CR
SR2-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	170.19CR	317,490.64CR	317,490.64CR
	TOTAL REVENUES	<u>0.00</u>	<u>25,373.37</u>	<u>50,746.74</u>	<u>50,746.74</u>
	TOTAL FUND EQUITY	11,059.30CR	25,203.18	266,743.90CR	277,803.20CR
	TOTAL LIABILITIES & EQUITY	11,059.30CR	25,203.18	266,743.90CR	277,803.20CR
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TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

SS1-Manlius Con Sewer Dist

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SS1-1.200	Claim on Pooled Cash and CD's	25,195.59	380.62	624.42	25,820.01
SS1-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
SS1-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	25,195.59	380.62	624.42	25,820.01
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SS1-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SS1-2.601	Accrued Liabilities	0.00	0.00	0.00	0.00
SS1-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SS1-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SS1-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SS1-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SS1-3.914	Assigned Approp Fund Balance	75,105.00CR	0.00	0.00	75,105.00CR
SS1-3.915	Assigned Unapp Fund Balance	49,909.41	0.00	0.00	49,909.41
SS1-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	380.62CR	624.42CR	624.42CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	25,195.59CR	380.62CR	624.42CR	25,820.01CR
	TOTAL LIABILITIES & EQUITY	25,195.59CR	380.62CR	624.42CR	25,820.01CR
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TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

SS2-Thompson Sewer District

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SS2-1.200	Claim on Pooled Cash and CD's	5,608.33	8.05	18,473.10	24,081.43
SS2-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
SS2-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	5,608.33	8.05	18,473.10	24,081.43
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SS2-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SS2-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SS2-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SS2-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SS2-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SS2-3.915	Assigned Unapp Fund Balance	5,608.33CR	0.00	0.00	5,608.33CR
SS2-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	8.05CR	18,473.10CR	18,473.10CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	5,608.33CR	8.05CR	18,473.10CR	24,081.43CR
	TOTAL LIABILITIES & EQUITY	5,608.33CR	8.05CR	18,473.10CR	24,081.43CR
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TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

SS3-Megninn Farms Sewer

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SS3-1.200	Claim on Pooled Cash and CD's	279.36	71,994.00CR	2.85	282.21
SS3-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	279.36	71,994.00CR	2.85	282.21
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SS3-2.600	Pooled Accounts Payable	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SS3-3.599	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SS3-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SS3-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SS3-3.915	Assigned Unapp Fund Balance	279.36CR	0.00	0.00	279.36CR
	TOTAL REVENUES	0.00	1.74CR	71,998.59CR	71,998.59CR
	TOTAL REVENUES	<u>0.00</u>	<u>71,995.74</u>	<u>71,995.74</u>	<u>71,995.74</u>
	TOTAL FUND EQUITY	279.36CR	71,994.00	2.85CR	282.21CR
	TOTAL LIABILITIES & EQUITY	279.36CR	71,994.00	2.85CR	282.21CR
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TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

SW1-Manlius Con Water Supply

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SW1-1.200	Claim on Pooled Cash and CD's	32,970.55	26.71	1,073.49	34,044.04
SW1-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
SW1-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL ASSETS		32,970.55	26.71	1,073.49	34,044.04
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SW1-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SW1-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL LIABILITIES		0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SW1-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SW1-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SW1-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SW1-3.915	Assigned Unapp Fund Balance	32,970.55CR	0.00	0.00	32,970.55CR
SW1-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
TOTAL REVENUES		0.00	26.71CR	1,073.49CR	1,073.49CR
TOTAL REVENUES		<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL FUND EQUITY		32,970.55CR	26.71CR	1,073.49CR	34,044.04CR
TOTAL LIABILITIES & EQUITY		32,970.55CR	26.71CR	1,073.49CR	34,044.04CR
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TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

SW2-Manlius Con Water Dist

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SW2-1.200	Claim on Pooled Cash and CD's	10,448.49	21.56	61,026.59	71,475.08
SW2-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	10,448.49	21.56	61,026.59	71,475.08
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SW2-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SW2-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SW2-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SW2-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SW2-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SW2-3.915	Assigned Unapp Fund Balance	10,448.49CR	0.00	0.00	10,448.49CR
SW2-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	21.56CR	61,026.59CR	61,026.59CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	10,448.49CR	21.56CR	61,026.59CR	71,475.08CR
	TOTAL LIABILITIES & EQUITY	10,448.49CR	21.56CR	61,026.59CR	71,475.08CR
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TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

SW3-Skyridge Water District

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SW3-1.200	Claim on Pooled Cash and CD's	43,464.07	91.87	11,323.84	54,787.91
SW3-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
SW3-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	43,464.07	91.87	11,323.84	54,787.91
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SW3-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SW3-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SW3-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
SW3-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
SW3-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
SW3-3.915	Assigned Unapp Fund Balance	43,464.07CR	0.00	0.00	43,464.07CR
SW3-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	91.87CR	11,323.84CR	11,323.84CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	43,464.07CR	91.87CR	11,323.84CR	54,787.91CR
	TOTAL LIABILITIES & EQUITY	43,464.07CR	91.87CR	11,323.84CR	54,787.91CR
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TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

SW4-Highbridge Water District

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
SW4-1.200	Claim on Pooled Cash	12,302.59	0.00	3,095.76	15,398.35
SW4-1.391	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	12,302.59	0.00	3,095.76	15,398.35
		=====	=====	=====	=====
<u>LIABILITIES</u>					
SW4-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
SW4-2.630	Due to Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
SW4-3.909	Unappropriated Fund Balance	12,302.59CR	0.00	0.00	12,302.59CR
	TOTAL REVENUES	0.00	0.00	3,095.76CR	3,095.76CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	12,302.59CR	0.00	3,095.76CR	15,398.35CR
	TOTAL LIABILITIES & EQUITY	12,302.59CR	0.00	3,095.76CR	15,398.35CR
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TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

TA1-Trust & Agency - Payroll

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
TA1-1.200	Claim on Pooled Cash and CD's	142,832.99	5,829.25CR	5,285.61CR	137,547.38
TA1-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
TA1-1.391	Due From Other Funds	0.00	0.00	0.00	0.00
TA1-1.440	Due From Other Governemnts	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	142,832.99	5,829.25CR	5,285.61CR	137,547.38
		=====	=====	=====	=====
<u>LIABILITIES</u>					
TA1-2.100	Consolidated Payroll	977.06	0.00	0.00	977.06
TA1-2.110	SUI/SDI	0.00	0.00	0.00	0.00
TA1-2.170	Deferred Compensation	34.68CR	0.00	0.00	34.68CR
TA1-2.180	NYS Retirement	43,023.11CR	4,569.04	17,276.26	25,746.85CR
TA1-2.190	Disability Insurance	21,552.96CR	275.80CR	551.39CR	22,104.35CR
TA1-2.200	Health Insurance	75,196.47CR	2,323.39	12,236.97CR	87,433.44CR
TA1-2.210	NYS Withholding	0.00	0.00	0.00	0.00
TA1-2.220	Federal Withholding	0.00	0.00	0.00	0.00
TA1-2.240	Union Dues	0.00	0.00	0.00	0.00
TA1-2.250	Alfac Insurance	189.35CR	76.20	45.72	143.63CR
TA1-2.260	Social Security & Medicare	0.00	0.00	0.00	0.00
TA1-2.270	Colonial Supplmt Insurance	537.86	211.52CR	36.59	574.45
TA1-2.280	Flexible Spending	4,651.82	740.79CR	739.12	5,390.94
TA1-2.290	Guardian Life Insurance	2,894.98CR	253.48	246.56	2,648.42CR
TA1-2.300	Savingts & Direct Deposit	0.00	0.00	0.00	0.00
TA1-2.360	Garnishee & Child Support	27.46CR	0.00	0.00	27.46CR
TA1-2.390	Misc Payroll Deduction	3,523.12CR	0.00	0.00	3,523.12CR
TA1-2.400	Taxes Payable	0.00	0.00	0.00	0.00
TA1-2.600	Pooled Accounts Payable	17.43	0.00	0.00	17.43
TA1-2.630	Due To Other Funds	0.00	0.00	0.00	0.00
TA1-2.850	Credit Union	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	140,257.96CR	5,994.00	5,555.89	134,702.07CR
<u>FUND EQUITY</u>					
TA1-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
TA1-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
TA1-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
TA1-3.915	Assigned Unapp Fund Balance	2,575.03CR	0.00	0.00	2,575.03CR
TA1-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	164.75CR	270.28CR	270.28CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	2,575.03CR	164.75CR	270.28CR	2,845.31CR
	TOTAL LIABILITIES & EQUITY	142,832.99CR	5,829.25	5,285.61	137,547.38CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

TA2-Trust & Agency - Other

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
TA2-1.200	Claim on Pooled Cash and CD's	61,480.82	106.96	175.47	61,656.29
TA2-1.201	Escrow - Misc. Deposits	134,295.98	2,046.31CR	2,294.47CR	132,001.51
TA2-1.202	Police Savings - M&T	0.00	0.00	0.00	0.00
TA2-1.203	Savings/Bond & Bail Deposits	34,473.16	0.00	0.00	34,473.16
TA2-1.204	CD/Quarry Deposit - Key	0.00	0.00	0.00	0.00
TA2-1.205	Currency Property	39,994.87	0.00	0.00	39,994.87
TA2-1.206	M&T - Solar Deposits	301,163.63	231.31	487.20	301,650.83
TA2-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	571,408.46	1,708.04CR	1,631.80CR	569,776.66
		=====	=====	=====	=====
<u>LIABILITIES</u>					
TA2-2.290	Quarry/Kinsella Deposit	0.00	0.00	0.00	0.00
TA2-2.300	Bond & Coupon Deposits	32,471.67CR	0.00	0.00	32,471.67CR
TA2-2.310	Street Opening Deposits	10,392.64CR	0.00	0.00	10,392.64CR
TA2-2.320	Bid Deposits	39,750.00CR	0.00	575.00CR	40,325.00CR
TA2-2.350	Unclaimed Bail Deposits	15,344.87CR	0.00	0.00	15,344.87CR
TA2-2.360	Currency Property Liability	39,994.87CR	0.00	0.00	39,994.87CR
TA2-2.400	Solar Deposits	300,823.50CR	0.00	0.00	300,823.50CR
TA2-2.500	Foreign Fire Insurance Tax	0.00	0.00	0.00	0.00
TA2-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
TA2-2.630	Due To Other Funds	0.00	0.00	0.00	0.00
TA2-2.851	Engineering Deposits	125,994.74CR	2,148.00	3,085.00	122,909.74CR
TA2-2.852	Savings Interest	<u>3,456.50CR</u>	<u>0.00</u>	<u>0.00</u>	<u>3,456.50CR</u>
	TOTAL LIABILITIES	568,228.79CR	2,148.00	2,510.00	565,718.79CR
<u>FUND EQUITY</u>					
TA2-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
TA2-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
TA2-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
TA2-3.915	Assigned Unapp Fund Balance	3,179.67CR	0.00	0.00	3,179.67CR
TA2-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	439.96CR	878.20CR	878.20CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	3,179.67CR	439.96CR	878.20CR	4,057.87CR
	TOTAL LIABILITIES & EQUITY	571,408.46CR	1,708.04	1,631.80	569,776.66CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

W -Long Term Debt

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
W-1.129	Total Non-Current Govt Liab	<u>70,265.00</u>	<u>0.00</u>	<u>0.00</u>	<u>70,265.00</u>
	TOTAL ASSETS	70,265.00	0.00	0.00	70,265.00
		=====	=====	=====	=====
<u>LIABILITIES</u>					
W-2.626	BAN's Payable	0.00	0.00	0.00	0.00
W-2.628	Bonds Payable	75,000.00	0.00	0.00	75,000.00
W-2.638	Net Pension Liability	145,265.00CR	0.00	0.00	145,265.00CR
W-2.685	Installment Purchase Debt	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	70,265.00CR	0.00	0.00	70,265.00CR
<u>FUND EQUITY</u>					
W-3.909		0.00	0.00	0.00	0.00
W-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	0.00	0.00	0.00	0.00
	TOTAL LIABILITIES & EQUITY	70,265.00CR	0.00	0.00	70,265.00CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

W10-Eagle Village Water Dist

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
W10-1.200	Claim on Pooled Cash and CD's	0.00	0.00	0.00	0.00
W10-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
W10-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	0.00	0.00	0.00	0.00
		=====	=====	=====	=====
<u>LIABILITIES</u>					
W10-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
W10-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
W10-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
W10-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
W10-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
W10-3.915	Assigned Unapp Fund Balance	0.00	0.00	0.00	0.00
W10-3.917	Unassigned Fund Balance	0.00	0.00	0.00	0.00
W10-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	0.00	0.00	0.00	0.00
	TOTAL LIABILITIES & EQUITY	0.00	0.00	0.00	0.00
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

W20-Jas N Manlius Water Spplly

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
W20-1.200	Claim on Pooled Cash and CD's	0.00	0.00	0.00	0.00
W20-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
W20-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL ASSETS		0.00	0.00	0.00	0.00
		=====	=====	=====	=====
<u>LIABILITIES</u>					
W20-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
W20-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL LIABILITIES		0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
W20-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
W20-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
W20-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
W20-3.915	Assigned Unapp Fund Balance	0.00	0.00	0.00	0.00
W20-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
TOTAL REVENUES		0.00	0.00	0.00	0.00
TOTAL REVENUES		<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL FUND EQUITY		0.00	0.00	0.00	0.00
TOTAL LIABILITIES & EQUITY		0.00	0.00	0.00	0.00
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

W30-Minoa Road Water Supply

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
W30-1.200	Claim on Pooled Cash and CD's	0.00	0.00	0.00	0.00
W30-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
W30-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	0.00	0.00	0.00	0.00
		=====	=====	=====	=====
<u>LIABILITIES</u>					
W30-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
W30-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
W30-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
W30-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
W30-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
W30-3.915	Assigned Unapp Fund Balance	0.00	0.00	0.00	0.00
W30-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	0.00	0.00	0.00	0.00
	TOTAL LIABILITIES & EQUITY	0.00	0.00	0.00	0.00
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

W40-Minoa Road Water Extensn

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
W40-1.200	Claim on Pooled Cash and CD's	0.00	0.00	0.00	0.00
W40-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
W40-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	0.00	0.00	0.00	0.00
		=====	=====	=====	=====
<u>LIABILITIES</u>					
W40-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
W40-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
W40-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
W40-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
W40-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
W40-3.915	Assigned Unapp Fund Balance	0.00	0.00	0.00	0.00
W40-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	0.00	0.00	0.00	0.00
	TOTAL LIABILITIES & EQUITY	0.00	0.00	0.00	0.00
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

W50-Buttonvale Water Disrtict

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
W50-1.200	Claim on Pooled Cash and CD's	0.00	0.00	0.00	0.00
W50-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
W50-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL ASSETS		0.00	0.00	0.00	0.00
		=====	=====	=====	=====
<u>LIABILITIES</u>					
W50-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
W50-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL LIABILITIES		0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
W50-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
W50-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
W50-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
W50-3.915	Assigned Unapp Fund Balance	0.00	0.00	0.00	0.00
W50-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
TOTAL REVENUES		0.00	0.00	0.00	0.00
TOTAL REVENUES		<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL FUND EQUITY		0.00	0.00	0.00	0.00
TOTAL LIABILITIES & EQUITY		0.00	0.00	0.00	0.00
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

W60-Milnerfield Water Dist

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
W60-1.200	Claim on Pooled Cash and CD's	0.00	0.00	0.00	0.00
W60-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
W60-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL ASSETS		0.00	0.00	0.00	0.00
		=====	=====	=====	=====
<u>LIABILITIES</u>					
W60-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
W60-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL LIABILITIES		0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
W60-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
W60-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
W60-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
W60-3.915	Assigned Unapp Fund Balance	0.00	0.00	0.00	0.00
W60-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
TOTAL REVENUES		0.00	0.00	0.00	0.00
TOTAL REVENUES		<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL FUND EQUITY		0.00	0.00	0.00	0.00
TOTAL LIABILITIES & EQUITY		0.00	0.00	0.00	0.00
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

W70-Mycenae Water Disrtict

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
W70-1.200	Claim on Pooled Cash and CD's	0.00	0.00	0.00	0.00
W70-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
W70-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	0.00	0.00	0.00	0.00
		=====	=====	=====	=====
<u>LIABILITIES</u>					
W70-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
W70-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
W70-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
W70-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
W70-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
W70-3.915	Assigned Unapp Fund Balance	0.00	0.00	0.00	0.00
W70-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	0.00	0.00	0.00
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	0.00	0.00	0.00	0.00
	TOTAL LIABILITIES & EQUITY	0.00	0.00	0.00	0.00
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

W80-Schepp Water District

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
W80-1.200	Claim on Pooled Cash and CD's	10.53CR	2.74	88.47	77.94
W80-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
W80-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	10.53CR	2.74	88.47	77.94
		=====	=====	=====	=====
<u>LIABILITIES</u>					
W80-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
W80-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
W80-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
W80-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
W80-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
W80-3.915	Assigned Unapp Fund Balance	10.53	0.00	0.00	10.53
W80-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	2.74CR	88.47CR	88.47CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	10.53	2.74CR	88.47CR	77.94CR
	TOTAL LIABILITIES & EQUITY	10.53	2.74CR	88.47CR	77.94CR
		=====	=====	=====	=====

TOWN OF MANLIUS
YEAR TO DATE BALANCE SHEET
AS OF: FEBRUARY 28TH, 2023

W90-Watervale Water District

ACCT NO#	ACCOUNT NAME	BEGINNING BALANCE	M-T-D ACTIVITY	Y-T-D ACTIVITY	CURRENT BALANCE
<u>ASSETS</u>					
W90-1.200	Claim on Pooled Cash and CD's	4,684.97	9.55	90.64	4,775.61
W90-1.380	Accounts Receivable	0.00	0.00	0.00	0.00
W90-1.391	Due From Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	4,684.97	9.55	90.64	4,775.61
		=====	=====	=====	=====
<u>LIABILITIES</u>					
W90-2.600	Pooled Accounts Payable	0.00	0.00	0.00	0.00
W90-2.626	BAN's Payable	0.00	0.00	0.00	0.00
W90-2.630	Due To Other Funds	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL LIABILITIES	0.00	0.00	0.00	0.00
<u>FUND EQUITY</u>					
W90-3.599	Appropriated Fund Balance	0.00	0.00	0.00	0.00
W90-3.821	Reserve for Encumbrances	0.00	0.00	0.00	0.00
W90-3.909	Unappropriated Fund Balance	0.00	0.00	0.00	0.00
W90-3.915	Assigned Unapp Fund Balance	4,684.97CR	0.00	0.00	4,684.97CR
W90-3.962	Budgetary Provisions	0.00	0.00	0.00	0.00
	TOTAL REVENUES	0.00	9.55CR	90.64CR	90.64CR
	TOTAL REVENUES	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL FUND EQUITY	4,684.97CR	9.55CR	90.64CR	4,775.61CR
	TOTAL LIABILITIES & EQUITY	4,684.97CR	9.55CR	90.64CR	4,775.61CR
		=====	=====	=====	=====

MONTHLY REPORT OF SUPERVISOR

TO THE TOWN BOARD OF THE TOWN OF MANLIUS

Pursuant to Section 125 of the Town Law, I hereby render the following detailed statement of all moneys received and disbursed by me during the month of February 2023

Dated: 3/13/2023

SUPERVISOR

Cash Balance Report	January	Net Change	February
Cash in Pooled Checking/Savings	2,622,143	8,479,579	11,101,722
M&T Savings	163	0	163
Petty Cash	500	0	500
Petty Cash - Court	50	0	50
A00 General Townwide	2,622,856	8,479,579	11,102,435
Cash in Pooled Checking/Savings	390,521	-27,764	362,758
B00 General Part Town	390,521	-27,764	362,758
Cash in Pooled Checking/Savings	1,952	0	1,952
M&T Savings	6,309	5	6,313
M&T Savings-AED/Donations	3,279	3	3,281
M&T Savings-Equipment	0	0	0
M&T Savings-Stop DWI	66,676	51	66,727
CM1 Police Special Rev.	78,215	59	78,274
Cash in Pooled Checking/Savings	0	0	0
M&T Savings	4,767	4	4,770
CM2 Flood Water Study	4,767	4	4,770
Cash in Pooled Checking/Savings	239	0	239
M&T Savings	10,891	7,562	18,453
CM3 Sustainable Manlius	11,130	7,562	18,692
Cash in Pooled Checking/Savings	0	0	0
M&T Savings-DWI Arraignments	3,594	-84	3,510
CM4 Court Special Rev.	3,594	-84	3,510
M&T Savings	46,529	36	46,565
CM5 Parkland Trust	46,529	36	46,565
Cash in Pooled Checking/Savings	3,649,908	-429,637	3,220,271
DA0 Highway Townwide	3,649,908	-429,637	3,220,271
Cash in Pooled Checking/Savings	3,337,605	-4,441	3,333,164
DB0 Highway Part Town	3,337,605	-4,441	3,333,164
Cash in Pooled Checking/Savings	0	0	0
M&T Savings	20,621	19	20,641
HA0 Landfill Capital Fund	20,621	19	20,641
Cash in Pooled Checking/Savings	0	0	0
M&T Savings	0	0	0
HB0 Watervale Rd. Water Ext.	0	0	0
Cash in Pooled Checking/Savings	4	0	4
M&T Savings	4,543	0	4,543

Cash Balance Report	January	Net Change	February
HD0 Thompson Sewer Dist.	4,547	0	4,547
Cash in Pooled Checking/Savings	493	239	733
M&T Savings	0	0	0
HE0 Salt Storage Facility	493	239	733
Cash in Pooled Checking/Savings	28,884	56	28,940
HG0 Highway Garage Roof	28,884	56	28,940
Cash in Pooled Checking/Savings			
HW0 Town Hall Windows			
Cash in Pooled Checking/Savings	323,830	360	324,189
SD1 Consolidated Drainage #1	323,830	360	324,189
Cash in Pooled Checking/Savings	269,335	177	269,511
SD2 Consolidated Drainage #2	269,335	177	269,511
Cash in Pooled Checking/Savings	471,292	437	471,728
SD3 Consolidated Drainage #3	471,292	437	471,728
Cash in Pooled Checking/Savings	1,997,043	-1,994,070	2,973
SF1 Fayetteville Fire Protection	1,997,043	-1,994,070	2,973
Cash in Pooled Checking/Savings	1,593,512	-1,582,396	11,117
SF2 Manlius Fire Protection	1,593,512	-1,582,396	11,117
Cash in Pooled Checking/Savings	1,243,477	-1,241,690	1,787
SF3 Minoa Fire Protection	1,243,477	-1,241,690	1,787
Cash in Pooled Checking/Savings	238,826	-238,807	19
SF4 Kirkville Fire Protection	238,826	-238,807	19
Cash in Pooled Checking/Savings	30,391	-1,794	28,598
SL1 Overhead Lighting	30,391	-1,794	28,598
Cash in Pooled Checking/Savings	39,748	-2,499	37,249
SL2 Underground Lighting	39,748	-2,499	37,249
Cash in Pooled Checking/Savings	6,243	-112	6,131
SL3 Entry Lighting	6,243	-112	6,131
Cash in Pooled Checking/Savings	9,659	-706	8,953
SL4 Garden Park Lighting	9,659	-706	8,953
Cash in Pooled Checking/Savings	59,286	-2,743	56,543
SL5 Ratnour Bridge Lighting	59,286	-2,743	56,543
Cash in Pooled Checking/Savings	2,352,091	-202,795	2,149,296
SR1 Manlius Trash Dist	2,352,091	-202,795	2,149,296
Cash in Pooled Checking/Savings	303,006	-25,203	277,803
SR2 Manlius Brush Dist	303,006	-25,203	277,803
Cash in Pooled Checking/Savings	25,439	381	25,820
SS1 Manlius Sewer Dist	25,439	381	25,820

Cash Balance Report	January	Net Change	February
Cash in Pooled Checking/Savings	24,073	8	24,081
SS2 Thompson Sewer Dist	24,073	8	24,081
Cash in Pooled Checking/Savings	72,276	-71,994	282
SS3 Megnin Farms Sewer	72,276	-71,994	282
Cash in Pooled Checking/Savings	34,017	27	34,044
SW1 Manlius Con Water Supply	34,017	27	34,044
Cash in Pooled Checking/Savings	71,454	22	71,475
SW2 Manlius Con Water Dist	71,454	22	71,475
Cash in Pooled Checking/Savings	54,696	92	54,788
SW3 Skyridge Water Dist	54,696	92	54,788
Cash in Pooled Checking/Savings	15,398	0	15,398
SW4 Highbridge Water Dist	15,398	0	15,398
Cash in Pooled Checking/Savings	143,377	-5,829	137,547
TA1 Trust and Agency 1	143,377	-5,829	137,547
Cash in Pooled Checking/Savings	61,549	107	61,656
M&T Savings-Bond and Bail Deposit	34,473	0	34,473
M&T Savings-Currency Property	39,995	0	39,995
M&T Savings-Escrow Deposits	134,048	-2,046	132,002
M&T Savings-Police	0	0	0
M&T Savings-Quarry Deposit	0	0	0
M&T Savings-Solar Deposits	301,420	231	301,651
TA2 Trust and Agency 2	571,485	-1,708	569,777
Cash in Pooled Checking/Savings	75	3	78
W80 Schepp Water Dist	75	3	78
Cash in Pooled Checking/Savings	4,766	10	4,776
W90 Watervale Water Dist	4,766	10	4,776
Town Total:	20,154,466	2,654,795	22,809,261

Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
1/1 - 2/28/2023 17%			Annual	Remaining	83%	Actual	Budget Var - %			
A00 General Townwide										
Revenue										
Real Property Tax										
A00	4.1001	Real Property Taxes	8,420,961	100%	8,393,921	-27,040	0%	8,420,961	27,040	0% a
A00	4.1081	Other Payments in Lieu of Tax	7,630	66%	11,559	3,929	34%	11,559	0	0% b
A00	4.1090	Penalties & Interest	0	0%	73,000	73,000	100%	73,000	0	0% b
Real Property Tax Total:			8,428,591	99%	8,478,480	49,889	1%	8,505,520	27,040	0%
General Government										
A00	4.1170	Franchise Fees	319,130	100%	320,000	870	0%	320,000	0	0% b
A00	4.1520	Police Fees	0	100%	0	0	0%	0	0	100% b
A00	4.1589	Forfeited Property	0	100%	0	0	0%	0	0	100% b
A00	4.1590	OMFU Mutual Aid	0	100%	0	0	0%	0	0	100% b
A00	4.1591	Misc. Race Reimbursement	0	100%	0	0	0%	0	0	100% b
A00	4.1592	YMCA	0	100%	0	0	0%	0	0	100% b
General Government Total:			319,130	100%	320,000	870	0%	320,000	0	0%
Departmental Income										
A00	4.1255	Clerk Fees	526	13%	4,000	3,474	87%	4,000	0	0% b
A00	4.1550	Dog Control Fees	0	100%	0	0	0%	0	0	100% b
Departmental Income Total:			526	13%	4,000	3,474	87%	4,000	0	0%
Public Safety										
A00	4.2260	Public Safety Services	289,924	27%	1,054,935	765,011	73%	1,054,935	0	0% b
Public Safety Total:			289,924	27%	1,054,935	765,011	73%	1,054,935	0	0%
Police - Special Items (Revenue)										
A00	4.1593	Stop DWI - Quarterly Payments	0	0%	5,125	5,125	100%	5,125	0	0% b
Police - Special Items (Revenue) Total:			0	0%	5,125	5,125	100%	5,125	0	0%
Recreation Revenue										
A00	4.2001	Park & Rec Charges	0	0%	70,000	70,000	100%	70,000	0	0% b
Recreation Revenue Total:			0	0%	70,000	70,000	100%	70,000	0	0%
Intergovernmental Charges										
A00	4.2350	Youth Services, Recreation	0	0%	2,634	2,634	100%	2,634	0	0% b
Intergovernmental Charges Total:			0	0%	2,634	2,634	100%	2,634	0	0%
Use of Money and Property										
A00	4.2401	Interest & Earnings	13,942	465%	3,000	-10,942	0%	13,942	10,942	365% a
A00	4.2450	Credit Card Rebates	0	100%	0	0	0%	0	0	100% b
Use of Money and Property Total:			13,942	465%	3,000	-10,942	-365%	13,942	10,942	365%
Licenses and Permits										
A00	4.2530	Games of Chance - License	10	5%	200	190	95%	200	0	0% b
A00	4.2544	Dog License	2,892	14%	21,000	18,108	86%	21,000	0	0% b

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
			1/1 -	2/28/2023	17%	Annual	Remaining	83%	Actual	Budget Var - %
A00	4.2550	Dog Control Contract	0	100%		0	0	0%	0	0 100% b
Licenses and Permits Total:			2,902	14%		21,200	18,298	86%	21,200	0 0%
<u>Fines and Forfeitures</u>										
A00	4.2610	Fines/Forfeited Bail	6,072	10%		60,000	53,928	90%	60,000	0 0% b
Fines and Forfeitures Total:			6,072	10%		60,000	53,928	90%	60,000	0 0%
<u>Sale of Property and Comp Loss</u>										
A00	4.2655	Minor Sales	125	100%		0	-125	0%	125	125 100% a
A00	4.2665	Sale of Town Equipment	1,000	18%		5,500	4,500	82%	5,500	0 0% b
A00	4.2680	Insurance Recoveries	0	100%		0	0	0%	0	0 100% b
Sale of Property and Comp Loss Total:			1,125	20%		5,500	4,375	80%	5,625	125 2%
<u>Miscellaneous Revenue</u>										
A00	4.2700	Medicare Part D Reimbursement	0	0%		20,000	20,000	100%	20,000	0 0% b
A00	4.2701	Refunds of Prior Year Expend	0	100%		0	0	0%	0	0 100% b
A00	4.2705	Gifts & Donations	0	100%		0	0	0%	0	0 100% b
A00	4.2750	AIM - Related Payments	0	100%		0	0	0%	0	0 100% b
A00	4.2770	Unclassified Revenues	930	100%		0	-930	0%	930	930 100% a
Miscellaneous Revenue Total:			930	5%		20,000	19,070	95%	20,930	930 5%
<u>State Aid - General</u>										
A00	4.3001	Assessment Mgt Aid AIM	0	0%		111,763	111,763	100%	111,763	0 0% b
A00	4.3005	Mortgage Tax	0	0%		650,000	650,000	100%	650,000	0 0% b
A00	4.3040	Cyclical Reassessment Aid	0	100%		0	0	0%	0	0 100% b
A00	4.3050	Records Management	0	100%		0	0	0%	0	0 100% b
A00	4.3089	Railroad Infrastructure Act	0	100%		0	0	0%	0	0 100% b
A00	4.3089.300	Personnel Safety Grant	0	100%		0	0	0%	0	0 100% b
A00	4.3089.T	Technology Grant - GIS	0	100%		0	0	0%	0	0 100% b
A00	4.3097	Highway Garage Roof-Valeski G	0	100%		0	0	0%	0	0 100% b
A00	4.3820	Youth Programs, PD	0	0%		3,283	3,283	100%	3,283	0 0% b
A00	4.3825	NYS Grant - Boiler Replacement	0	100%		0	0	0%	0	0 100% b
A00	4.3830	NYS Grant - Window Replaceme	0	100%		0	0	0%	0	0 100% b
A00	4.3835	NYS - SAM Grant	0	100%		0	0	0%	0	0 100% b
A00	4.4286	CARES Act Education St. Fund	0	100%		0	0	0%	0	0 100% b
State Aid - General Total:			0	0%		765,046	765,046	100%	765,046	0 0%
<u>State Aid - Courts</u>										
A00	4.3389.308	JCAP Court Security Grant	0	100%		0	0	0%	0	0 100% b
State Aid - Courts Total:			0	100%		0	0	100%	0	0 100%
<u>State Aid - Police</u>										
A00	4.3389.302	Traffic Safety Grant - BUNY	0	0%		18,806	18,806	100%	18,806	0 0% b
A00	4.3389.303	Bullet Proof Vest Partnership	0	0%		2,703	2,703	100%	2,703	0 0% b
A00	4.3389.304	Traffic Safety Grant - CPSS	0	0%		2,100	2,100	100%	2,100	0 0% b
A00	4.3389.305	License Plate Reader Grant	0	100%		0	0	0%	0	0 100% b

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
			1/1 -	2/28/2023	17%	Annual	Remaining	83%	Actual	Budget Var - %
A00	4.3389.306	Traffic Safety Grant - STEP	0	100%		0	0	0%	0	0 100% b
A00	4.3389.309	Law Enforcement Grant	88,000	100%		0	-88,000	0%	88,000	88,000 100% a
A00	4.3389.310	SLETPP Grant (2010)	0	100%		0	0	0%	0	0 100% b
A00	4.3389.311	Byrne JAG Grant	0	100%		0	0	0%	0	0 100% b
A00	4.3389.312	NIBRS Grant	0	100%		0	0	0%	0	0 100% b
A00	4.3389.407	Grant - Air Cards/Cameras	0	100%		0	0	0%	0	0 100% b
State Aid - Police Total:			88,000	373%		23,609	-64,391	-273%	111,609	88,000 373%
Revenue 6000-6999										
A00	4.4089	Coronavirus Local Fiscal Recov	0	0%		935,000	935,000	100%	935,000	0 0% b
Revenue 6000-6999 Total:			0	0%		935,000	935,000	100%	935,000	0 0%
BANs										
A00	4.5730	Bond Anticipation Notes	0	100%		0	0	0%	0	0 100% b
BANs Total:			0	100%		0	0	100%	0	0 100%
Appropriations										
A00	4.9600	Appropriations	0	0%		870,000	870,000	100%	870,000	0 0% b
A00	4.9602	Bugetary Prov for Other Uses	0	100%		0	0	0%	0	0 100% b
A00	4.9800	Revenues	0	100%		0	0	0%	0	0 100% b
Appropriations Total:			0	0%		870,000	870,000	100%	870,000	0 0%
Revenue Total:			9,151,142	72%		12,638,529	3,487,387	28%	12,765,566	127,037 1%
Expense										
Town Board										
A00	5.1010.100	Town Board - Personal Services	12,548	15%		81,562	69,014	85%	81,562	0 0% 2
A00	5.1010.400	Town Board - Contractual	-337	-1%		22,500	22,837	101%	22,500	0 0% b
A00	5.1010.402	Town Board - Seminar/Conferen	225	4%		5,500	5,275	96%	5,500	0 0% b
A00	5.1010.405	Town Board - Information Tech	0	100%		0	0	0%	0	0 100% b
Town Board Total:			12,436	11%		109,562	97,126	89%	109,562	0 0%
Justices										
A00	5.1110.100	Justices - Personal Services	31,811	14%		223,536	191,725	86%	206,772	-16,764 -7% 2
A00	5.1110.200	Justices - Equipment	0	100%		0	0	0%	0	0 100% b
A00	5.1110.400	Justices - Contractual	0	0%		600	600	100%	600	0 0% b
A00	5.1110.401	Justices - Office Supplies	985	35%		2,800	1,815	65%	2,800	0 0% b
A00	5.1110.402	Justices - Seminars/Conference	0	0%		5,500	5,500	100%	5,500	0 0% b
A00	5.1110.403	Justices - Associations/Dues	430	64%		675	245	36%	675	0 0% b
A00	5.1110.404	Justices - Books/Publications	0	0%		328	328	100%	328	0 0% b
A00	5.1110.405	Justice-Information Technology	0	100%		0	0	0%	0	0 100% b
A00	5.1110.407	Justice - Copier Lease	0	100%		0	0	0%	0	0 100% b
A00	5.1110.408	Justice - Printing	0	100%		0	0	0%	0	0 100% b
A00	5.1110.414	Justice - Credit Card	0	100%		0	0	0%	0	0 100% b
Justices Total:			33,226	14%		233,439	200,213	86%	216,675	-16,764 -7%

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget		Projected Year End		
1/1 - 2/28/2023			17%		Annual	Remaining	83%	Actual	Budget Var - %
<u>Supervisor</u>									
A00	5.1220.100	Supervisor - Personal Services	26,345	10%	263,508	237,163	90%	171,242	-92,266 -35% 2
A00	5.1220.200	Supervisor - Equipment	0	100%	0	0	0%	0	0 100% b
A00	5.1220.400	Supervisor - Contractual	6,676	67%	10,000	3,324	33%	10,000	0 0% b
A00	5.1220.401	Supervisor - Office Supplies	468	16%	3,000	2,532	84%	3,000	0 0% b
A00	5.1220.402	Supervisor - Seminar/Conferenc	-1,425	-20%	7,000	8,425	120%	7,000	0 0% b
A00	5.1220.403	Supervisor - Associations/Dues	1,650	63%	2,600	950	37%	2,600	0 0% b
A00	5.1220.404	Supervisor - Books/Publication	0	100%	0	0	0%	0	0 100% b
A00	5.1220.405	Supervisor - Information Techn	262	3%	8,000	7,738	97%	8,000	0 0% b
A00	5.1220.450	Supervisor - Contractual Service	-1,500	-43%	3,500	5,000	143%	3,500	0 0% b
A00	5.1220.480	Supervisor - Payroll	6,579	18%	37,500	30,921	82%	37,500	0 0% b
Supervisor Total:			39,055	12%	335,108	296,053	88%	242,842	-92,266 -28%
<u>Receiver of Taxes</u>									
A00	5.1330.100	Receiver - Personal Services	19,597	21%	94,925	75,328	79%	127,380	32,455 34% 2
A00	5.1330.200	Receiver of Taxes- Equipment	0	0%	2,045	2,045	100%	2,045	0 0% b
A00	5.1330.400	Receiver of Taxes - Contract	0	0%	450	450	100%	450	0 0% b
A00	5.1330.401	Receiver of Taxes -Office Sup	208	7%	3,172	2,964	93%	3,172	0 0% b
A00	5.1330.402	Receiver of Taxes - Seminars	0	0%	1,015	1,015	100%	1,015	0 0% b
A00	5.1330.403	Receiver of Taxes- Assoc/Dues	40	100%	40	0	0%	40	0 0% b
A00	5.1330.405	Receiver of Taxes - IT	1,500	50%	3,000	1,500	50%	3,000	0 0% b
A00	5.1330.408	Receiver of Taxes- Print/Ads	53	48%	110	57	52%	110	0 0% b
Receiver of Taxes Total:			21,398	20%	104,757	83,359	80%	137,212	32,455 31%
<u>Assessors</u>									
A00	5.1355.100	Assessor -Personal Services	40,215	15%	261,396	221,181	85%	261,398	2 0% 2
A00	5.1355.200	Assessors - Equipment	0	0%	500	500	100%	500	0 0% b
A00	5.1355.400	Assessors - Contractual	247	22%	1,100	853	78%	1,100	0 0% b
A00	5.1355.401	Assessors - Office Supplies	136	6%	2,300	2,164	94%	2,300	0 0% b
A00	5.1355.402	Assessors - Seminars/Conferen	0	0%	6,800	6,800	100%	6,800	0 0% b
A00	5.1355.403	Assessors - Associations/Dues	535	67%	800	265	33%	800	0 0% b
A00	5.1355.405	Assessors - Information Tech	1,950	98%	2,000	50	2%	2,000	0 0% b
A00	5.1355.408	Assessors - Printing Tax Bills	0	0%	29,000	29,000	100%	29,000	0 0% b
Assessors Total:			43,083	14%	303,896	260,813	86%	303,898	2 0%
<u>Board of Assessmnt Revie</u>									
A00	5.1356.100	BOA Reveiw - Personal Services	0	0%	12,300	12,300	100%	12,300	0 0% b
Board of Assessmnt Revie Total:			0	0%	12,300	12,300	100%	12,300	0 0%
<u>Town Clerk</u>									
A00	5.1410.100	Town Clerk- Personal Services	24,299	18%	135,176	110,877	82%	157,944	22,768 17% 2
A00	5.1410.200	Town Clerk - Equipment	0	100%	0	0	0%	0	0 100% b
A00	5.1410.400	Town Clerk - Contractual	0	100%	0	0	0%	0	0 100% b
A00	5.1410.401	Town Clerk - Office Supplies	48	2%	2,200	2,152	98%	2,200	0 0% b
A00	5.1410.402	Town Clerk - Seminars/Conferen	-1,500	-30%	4,945	6,445	130%	4,945	0 0% b

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
1/1 - 2/28/2023			17%		Annual	Remaining	83%	Actual	Budget Var - %	
A00	5.1410.403	Town Clerk - Association/Dues	60	16%	372	312	84%	372	0	0% b
A00	5.1410.404	Town Clerk - Books/Publication	0	100%	0	0	0%	0	0	100% b
A00	5.1410.405	Town Clerk - Information Tech	0	0%	2,700	2,700	100%	2,700	0	0% b
A00	5.1410.408	Town Clerk - Printing/Ads	555	46%	1,200	645	54%	1,200	0	0% b
A00	5.1410.409	Town Clerk - Postage	0	100%	0	0	0%	0	0	100% b
A00	5.1410.418	Town Clerk - Filing Fees	0	0%	100	100	100%	100	0	0% b
Town Clerk Total:			23,462	16%	146,693	123,231	84%	169,461	22,768	16%
<u>Attorney</u>										
A00	5.1420.100	Attorney - Personnel Services	0	100%	0	0	0%	0	0	100% m
A00	5.1420.400	Attorney - Contractual	0	100%	0	0	0%	0	0	100% b
A00	5.1420.401	Attorney - Office Supplies	0	100%	0	0	0%	0	0	100% b
A00	5.1420.402	Attorney - Seminars/Conference	0	100%	0	0	0%	0	0	100% b
A00	5.1420.403	Attorney - Associations	0	100%	0	0	0%	0	0	100% b
A00	5.1420.404	Attorney - Books/Publications	0	100%	0	0	0%	0	0	100% b
A00	5.1420.405	Attorney - Information Tech	0	100%	0	0	0%	0	0	100% b
A00	5.1420.410	Attorney - Hwy Union Contract	0	100%	0	0	0%	0	0	100% b
A00	5.1420.420	Attorney - PBA Contractual	0	100%	0	0	0%	0	0	100% b
A00	5.1420.481	Attorney - Litigation	8,408	34%	25,000	16,592	66%	25,000	0	0% b
A00	5.1420.482	Attorney - Employment Matters	0	0%	25,000	25,000	100%	25,000	0	0% b
A00	5.1420.483	Attorney - Town Board	12,530	19%	66,000	53,470	81%	66,000	0	0% b
Attorney Total:			20,938	18%	116,000	95,062	82%	116,000	0	0%
<u>Safety Grant</u>										
A00	5.1430.100	Safety Grant - Personal Serv	154	100%	0	-154	0%	154	154	100% a
A00	5.1430.400	Safety Grant - Contractual	0	100%	0	0	0%	0	0	100% b
Safety Grant Total:			154	100%	0	-154	100%	154	154	100%
<u>Engineer</u>										
A00	5.1440.100	Engineer - Personal Services	0	100%	0	0	0%	0	0	100% m
A00	5.1440.400	Engineer - Contractual	4,990	2%	325,000	320,010	98%	325,000	0	0% b
A00	5.1440.402	Engineer - Seminars/Conference	0	100%	0	0	0%	0	0	100% b
A00	5.1440.405	Engineer - Information Tech	0	100%	0	0	0%	0	0	100% b
A00	5.1440.450	Engineer - Contractual Service	426	2%	18,000	17,574	98%	18,000	0	0% b
Engineer Total:			5,416	2%	343,000	337,584	98%	343,000	0	0%
<u>Records Management</u>										
A00	5.1460.100	Record Managemnt - Personal S	0	0%	4,000	4,000	100%	0	-4,000	-100% 2
A00	5.1460.200	Record Managemnt - Equipment	0	100%	0	0	0%	0	0	100% b
A00	5.1460.400	Record Managemnt - Contractua	-6,500	-129%	5,027	11,527	229%	5,027	0	0% b
Records Management Total:			-6,500	-72%	9,027	15,527	172%	5,027	-4,000	-44%
<u>Buildings</u>										
A00	5.1620.100	Buildings - Personal Services	3,156	14%	22,142	18,986	86%	20,514	-1,628	-7% 2
A00	5.1620.101	Buildings - Personal Svc Safety	0	100%	0	0	0%	0	0	100% 2
A00	5.1620.200	Buildings - Equipment	6,622	22%	30,000	23,378	78%	30,000	0	0% b

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1/1 - 2/28/2023			17%		Annual	Remaining	83%	Actual	Budget Var - %	
A00	5.1620.400	Buildings - Contractual	2,883	44%	6,500	3,617	56%	6,500	0	0% b
A00	5.1620.405	Buildings - Information Tech	31,763	8%	389,764	358,001	92%	389,764	0	0% b
A00	5.1620.420	Buildings - Gas/Electric	3,896	11%	35,000	31,104	89%	35,000	0	0% b
A00	5.1620.421	Buildings - Phone	2,256	16%	14,000	11,744	84%	14,000	0	0% b
A00	5.1620.422	Buildings - Water	0	0%	950	950	100%	950	0	0% b
A00	5.1620.423	Buildings - Security Service	134	15%	900	766	85%	900	0	0% b
A00	5.1620.424	Buildings - Internet	355	14%	2,500	2,145	86%	2,500	0	0% b
A00	5.1620.426	Buildings - Dumpster	0	100%	0	0	0%	0	0	100% b
A00	5.1620.430	Buildings - Cleaning	2,850	17%	16,560	13,710	83%	16,560	0	0% b
A00	5.1620.431	Buildings - Landscaping	0	0%	6,000	6,000	100%	6,000	0	0% b
A00	5.1620.440	Buildings - Repairs	0	0%	2,500	2,500	100%	2,500	0	0% b
A00	5.1620.446	Buildings - Maintenance Cont	0	100%	0	0	0%	0	0	100% b
A00	5.1620.450	Buildings - Pest Control	116	17%	700	584	83%	700	0	0% b
A00	5.1620.485	Buildings - Snow Removal	720	29%	2,500	1,780	71%	2,500	0	0% b
Buildings Total:			54,751	10%	530,016	475,265	90%	528,388	-1,628	0%
<u>Community Center</u>										
A00	5.1630.400	Community Center - Contractual	0	100%	0	0	0%	0	0	100% b
A00	5.1630.420	Community Center - Gas/Elect	0	100%	0	0	0%	0	0	100% b
A00	5.1630.422	Community Center -Water	0	100%	0	0	0%	0	0	100% b
A00	5.1630.440	Community Center -Repairs	0	100%	0	0	0%	0	0	100% b
A00	5.1630.450	Community Center - Pest Contro	0	100%	0	0	0%	0	0	100% b
Community Center Total:			0	100%	0	0	100%	0	0	100%
<u>Central Garage</u>										
A00	5.1640.200	Central Garage - Capital	0	100%	0	0	0%	0	0	100% b
A00	5.1640.400	Central Garage - Contractual	0	100%	0	0	0%	0	0	100% b
A00	5.1640.410	Central Garage - Gasoline	9,031	9%	100,000	90,969	91%	100,000	0	0% b
A00	5.1640.411	Central Garage - Town Veh Man	1,437	32%	4,500	3,063	68%	4,500	0	0% b
Central Garage Total:			10,468	10%	104,500	94,032	90%	104,500	0	0%
<u>Central Printing</u>										
A00	5.1670.400	Central Printing - Contractual	0	100%	0	0	0%	0	0	100% b
A00	5.1670.401	Central Printing - Office Sply	1,646	9%	18,500	16,854	91%	18,500	0	0% b
A00	5.1670.404	Central Printing - Books/Public	0	0%	1,800	1,800	100%	1,800	0	0% b
A00	5.1670.407	Central Printing - Copier Lease	1,196	18%	6,800	5,604	82%	6,800	0	0% b
A00	5.1670.408	Central Printing - Post Meter	0	0%	2,000	2,000	100%	2,000	0	0% b
A00	5.1670.409	Central Printing - Postage	6,899	20%	35,000	28,101	80%	35,000	0	0% b
A00	5.1670.446	Central Printing - Maint.Contr	0	100%	0	0	0%	0	0	100% b
Central Printing Total:			9,741	15%	64,100	54,359	85%	64,100	0	0%
<u>Special Items</u>										
A00	5.1910.400	Unallocated Insurance	230,605	105%	220,000	-10,605	0%	230,605	10,605	5% a
A00	5.1920.400	Municipal Association Dues	0	100%	0	0	0%	0	0	100% b
A00	5.1930.400	Judgments & Claims	0	0%	15,000	15,000	100%	15,000	0	0% b

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1/1 - 2/28/2023			17%		Annual	Remaining	83%	Actual	Budget Var - %	
A00	5.1950.400	Taxes on Town Property	527	53%	1,000	473	47%	1,000	0	0% b
A00	5.1990.400	Contingent Account	0	100%	0	0	0%	0	0	100% b
Special Items Total:			231,132	98%	236,000	4,868	2%	246,605	10,605	4%
Police										
A00	5.3120.100	Police - Personal Services	549,816	15%	3,673,787	3,123,971	85%	3,673,787	0	0% b
A00	5.3120.101	Police - Overtime Pay	48,352	16%	299,339	250,987	84%	299,339	0	0% b
A00	5.3120.102	Police - Longevity Pay	0	0%	42,708	42,708	100%	42,708	0	0% b
A00	5.3120.103	Police - Holiday Pay	0	0%	133,720	133,720	100%	133,720	0	0% b
A00	5.3120.104	Police - Training Days	79,086	79%	100,322	21,236	21%	100,322	0	0% b
A00	5.3120.105	Police - Sick Time Buy Back	0	0%	116,004	116,004	100%	116,004	0	0% b
A00	5.3120.106	Police - Command Pay	8,790	63%	13,860	5,070	37%	13,860	0	0% b
A00	5.3120.107	Police - Incentive Pay	12,300	85%	14,400	2,100	15%	14,400	0	0% b
A00	5.3120.108	Police - Clothing Allowance	1,600	28%	5,760	4,160	72%	5,760	0	0% b
A00	5.3120.109	Police - Secty to Committee	0	0%	600	600	100%	600	0	0% b
A00	5.3120.200	Police - Equipment	-3,000	-2%	165,500	168,500	102%	165,500	0	0% b
A00	5.3120.400	Police - Contractual	-543	-1%	46,781	47,324	101%	46,781	0	0% b
A00	5.3120.401	Police - Office Supplies	-2,935	-19%	15,285	18,220	119%	15,285	0	0% b
A00	5.3120.402	Police - Seminars/Conference	5,663	18%	32,225	26,562	82%	32,225	0	0% b
A00	5.3120.403	Police - Associations/Dues	490	15%	3,360	2,870	85%	3,360	0	0% b
A00	5.3120.404	Police - Books/Publications	1,005	12%	8,373	7,368	88%	8,373	0	0% b
A00	5.3120.405	Police - Info Tech/Electronic	263	2%	12,750	12,487	98%	12,750	0	0% b
A00	5.3120.409	Police - Postage	0	0%	1,200	1,200	100%	1,200	0	0% b
A00	5.3120.412	Police - Vehicle Repair	-21,656	-18%	119,236	140,892	118%	119,236	0	0% b
A00	5.3120.421	Police - Phone	3,124	10%	31,820	28,696	90%	31,820	0	0% b
A00	5.3120.423	Police - Security Service	60	14%	420	360	86%	420	0	0% b
A00	5.3120.424	Police - Building Lease	0	0%	98,115	98,115	100%	98,115	0	0% b
A00	5.3120.425	Police - Building Maintenance	841	32%	2,650	1,809	68%	2,650	0	0% b
A00	5.3120.430	Police - Cleaning Supplies	83	2%	3,500	3,417	98%	3,500	0	0% b
A00	5.3120.446	Police - Maintenance Contract	8,782	14%	63,651	54,869	86%	63,651	0	0% b
A00	5.3120.447	Police - Vehicle Lighting	-10,684	100%	0	10,684	0%	0	0	100% b
A00	5.3120.448	Police - Uniforms & Cleaning	-1,680	-2%	68,879	70,559	102%	68,879	0	0% b
A00	5.3120.460	Police - Tuition Reimbursement	0	0%	10,000	10,000	100%	10,000	0	0% b
A00	5.3120.461	Police - Accreditation	7,330	18%	40,461	33,131	82%	40,461	0	0% b
A00	5.3120.462	Police - Community Relations	0	0%	4,550	4,550	100%	4,550	0	0% b
A00	5.3120.463	Police - CPSS	0	0%	2,100	2,100	100%	2,100	0	0% b
A00	5.3120.464	Police - Protection Gear	4,969	8%	59,043	54,074	92%	59,043	0	0% b
A00	5.3120.465	Police - Forensic	2,765	6%	44,828	42,063	94%	44,828	0	0% b
Police Total:			694,821	13%	5,235,227	4,540,406	87%	5,235,227	0	0%
Traffic Control										
A00	5.3310.100	Traffic Control - Personal Srv	2,224	11%	20,000	17,776	89%	20,000	0	0% b
A00	5.3310.400	Traffic Control - Contractual	60	2%	3,060	3,000	98%	3,060	0	0% b
Traffic Control Total:			2,284	10%	23,060	20,776	90%	23,060	0	0%

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			YTD Actual		Budget			Projected Year End		
1/1 - 2/28/2023 17%					Annual	Remaining	83%	Actual	Budget Var - %	
<u>Dog Control</u>										
A00	5.3510.100	Dog Control - Personnel Serv	0	100%	0	0	0%	0	0	100% b
A00	5.3510.400	Dog Control - Contractual	0	0%	300	300	100%	300	0	0% b
A00	5.3510.401	Dog Control - Office Supplies	0	0%	700	700	100%	700	0	0% b
A00	5.3510.402	Dog Control - Litigation	0	100%	0	0	0%	0	0	100% b
A00	5.3510.421	Dog Control - Phone	0	100%	0	0	0%	0	0	100% b
A00	5.3510.450	Dog Control - Contract	36,059	86%	41,886	5,827	14%	41,886	0	0% b
A00	5.3510.491	Dog Control - Vet Services	0	100%	0	0	0%	0	0	100% b
Dog Control Total:			36,059	84%	42,886	6,827	16%	42,886	0	0%
<u>Transportation</u>										
A00	5.5010.100	Superintendent - Personal Serv	20,694	14%	149,511	128,817	86%	134,511	-15,000	-10% 2
A00	5.5010.400	Sup of Highways - Contractual	0	100%	0	0	0%	0	0	100% b
A00	5.5010.402	Sup of Highways - Conference	0	0%	1,600	1,600	100%	1,600	0	0% b
A00	5.5010.403	Sup of Highways - Associations	0	0%	350	350	100%	350	0	0% b
A00	5.5010.405	Sup of Highways - Engineer	0	0%	25,700	25,700	100%	25,700	0	0% b
Transportation Total:			20,694	12%	177,161	156,467	88%	162,161	-15,000	-8%
<u>Garage/Salt Storage</u>										
A00	5.5132.200	Garage - Equipment	0	0%	14,000	14,000	100%	14,000	0	0% b
A00	5.5132.400	Garage - Miscellaneous	26	0%	51,250	51,224	100%	51,250	0	0% b
A00	5.5132.405	Garage - Information Technolog	240	3%	7,645	7,405	97%	7,645	0	0% b
A00	5.5132.420	Garage - Gas/Electric	4,923	13%	39,200	34,277	87%	39,200	0	0% b
A00	5.5132.421	Garage - Phone	242	100%	0	-242	0%	242	242	100% a
A00	5.5132.422	Garage - Water	0	0%	1,850	1,850	100%	1,850	0	0% b
A00	5.5132.423	Garage - Fire Monitoring	0	0%	700	700	100%	700	0	0% b
A00	5.5132.425	Garage - Garage/Bldg Maint	5,814	2%	295,500	289,686	98%	295,500	0	0% b
A00	5.5132.426	Garage - Dumpster	964	16%	6,136	5,172	84%	6,136	0	0% b
A00	5.5132.430	Garage - Cleaning/Bathroom Spl	0	0%	3,500	3,500	100%	3,500	0	0% b
A00	5.5132.431	Garage - Landscaping	0	0%	150	150	100%	150	0	0% b
A00	5.5132.446	Garage - Maintenance Contracts	614	20%	3,000	2,386	80%	3,000	0	0% b
A00	5.5132.447	Garage - Supplies/Water Softner	0	0%	500	500	100%	500	0	0% b
Garage/Salt Storage Total:			12,823	3%	423,431	410,608	97%	423,673	242	0%
<u>Street Lighting</u>										
A00	5.5182.400	Street Lighting - Contractual	882	16%	5,500	4,618	84%	5,500	0	0% b
Street Lighting Total:			882	16%	5,500	4,618	84%	5,500	0	0%
<u>Veteran Services</u>										
A00	5.6510.400	Veteran Services - Contractual	0	0%	800	800	100%	800	0	0% b
Veteran Services Total:			0	0%	800	800	100%	800	0	0%
<u>Recreation</u>										
A00	5.7310.100	Recreation - Personal Services	29,525	9%	317,335	287,810	91%	317,335	0	0% b
A00	5.7310.400	Recreation - Contractual	0	100%	0	0	0%	0	0	100% b
A00	5.7310.401	Recreation - Office Supplies	160	13%	1,275	1,115	87%	1,275	0	0% b

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A00	5.7310.402	Recreation - Seminars/Conferen	105	1%	11,670	11,565	99%	11,670	0	0% b
A00	5.7310.403	Recreation - Associations/Dues	575	55%	1,050	475	45%	1,050	0	0% b
A00	5.7310.404	Recreation - Books/Publication	0	100%	0	0	0%	0	0	100% b
A00	5.7310.405	Recreation - Registration Progra	3,600	100%	3,600	0	0%	3,600	0	0% b
A00	5.7310.408	Recreation - Printing & Advert	222	6%	3,780	3,558	94%	3,780	0	0% b
A00	5.7310.410	Recreation - Program Expenses	4,316	6%	66,650	62,334	94%	66,650	0	0% b
A00	5.7310.415	Recreation - Mileage	0	0%	1,845	1,845	100%	1,845	0	0% b
A00	5.7310.421	Recreation - Phone	0	0%	1,550	1,550	100%	1,550	0	0% b
A00	5.7310.425	Recreation - Self Sustaining You	0	100%	0	0	0%	0	0	100% b
A00	5.7310.426	Recreation - Self Sustaining Adu	0	100%	0	0	0%	0	0	100% b
A00	5.7310.446	Recreation - Storage	0	100%	0	0	0%	0	0	100% b
Recreation Total:			38,503	9%	408,755	370,252	91%	408,755	0	0%
<u>Museum</u>										
A00	5.7450.400	Museum - Contractual	0	0%	8,000	8,000	100%	8,000	0	0% b
Museum Total:			0	0%	8,000	8,000	100%	8,000	0	0%
<u>Historian</u>										
A00	5.7510.100	Historian - Personal Services	0	100%	0	0	0%	0	0	100% b
A00	5.7510.400	Historian - Contractual	0	0%	4,000	4,000	100%	4,000	0	0% b
Historian Total:			0	0%	4,000	4,000	100%	4,000	0	0%
<u>Environmental Control</u>										
A00	5.8090.101	Environmental Cntrl - Personal	0	100%	0	0	0%	0	0	100% b
A00	5.8090.400	Environmental Cntrl - Contract	0	100%	0	0	0%	0	0	100% b
Environmental Control Total:			0	100%	0	0	100%	0	0	100%
<u>Cemeteries</u>										
A00	5.8810.400	Cemeteries - Contractual	0	0%	5,000	5,000	100%	5,000	0	0% b
Cemeteries Total:			0	0%	5,000	5,000	100%	5,000	0	0%
<u>Employee Benefits - NYS Retirement</u>										
A00	5.9010.800	NYS Retirement	151,380	100%	151,380	0	0%	151,380	0	0% b
Employee Benefits - NYS Retirement Total:			151,380	100%	151,380	0	0%	151,380	0	0%
<u>Employee Benefits - Fire-Police Retirement</u>										
A00	5.9015.800	Fire & Police Retirement	822,861	100%	822,861	0	0%	822,861	0	0% b
Employee Benefits - Fire-Police Retirement Total:			822,861	100%	822,861	0	0%	822,861	0	0%
<u>Employee Benefits - Health Ins</u>										
A00	5.9060.800	Health Insurance	304,722	15%	2,095,745	1,791,023	85%	2,095,745	0	0% b
Employee Benefits - Health Ins Total:			304,722	15%	2,095,745	1,791,023	85%	2,095,745	0	0%
<u>Employee Benefits - Ins Opt Out</u>										
A00	5.9061.800	Health Insurance Opt-Out	5,754	16%	35,000	29,246	84%	35,000	0	0% b
Employee Benefits - Ins Opt Out Total:			5,754	16%	35,000	29,246	84%	35,000	0	0%

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual			Budget			Projected Year End		
1/1 - 2/28/2023			17%			Annual	Remaining	83%	Actual	Budget Var -	%
<u>Employee Benefits - FICA</u>											
A00	5.9030.800	FICA	72,821	16%		457,921	385,100	84%	457,921	0	0% b
Employee Benefits - FICA Total:			72,821	16%		457,921	385,100	84%	457,921	0	0%
<u>Employee Benefits - Workers Comp</u>											
A00	5.9040.800	Workers Compensation	0	0%		75,205	75,205	100%	75,205	0	0% b
Employee Benefits - Workers Comp Total:			0	0%		75,205	75,205	100%	75,205	0	0%
<u>Employee Benefits - Other</u>											
A00	5.9045.800	Life Insurance	894	18%		5,000	4,106	82%	5,000	0	0% b
A00	5.9050.800	Unemployment Insurance	3,896	97%		4,000	104	3%	4,000	0	0% b
A00	5.9055.800	Disability Insurance	-450	-8%		5,800	6,250	108%	5,800	0	0% b
A00	5.9089.800	Employee Assistance Program	0	0%		3,400	3,400	100%	3,400	0	0% b
Employee Benefits - Other Total:			4,340	24%		18,200	13,860	76%	18,200	0	0%
<u>BANs</u>											
A00	5.9730.600	BAN - Principal	0	100%		0	0	0%	0	0	100% b
A00	5.9730.700	BAN - Interest	0	100%		0	0	0%	0	0	100% b
BANs Total:			0	100%		0	0	100%	0	0	100%
<u>Appropriations</u>											
A00	5.9602	Budgetary Prov - Fund Balance	0	100%		0	0	0%	0	0	100% b
Appropriations Total:			0	100%		0	0	100%	0	0	100%
Expense Total:			2,666,704	21%	12,638,530	9,971,826	79%		12,575,098	-63,432	-1%
A00 General Townwide Total:			6,484,438		-1	-6,484,439			190,468	190,469	

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
1/1 - 2/28/2023 17%			Annual	Remaining	83%	Actual	Budget Var - %			
B00 General Part Town										
Revenue										
Real Property Tax										
B00	4.1001	Real Property Taxes	165,216	100%	165,216	0	0%	165,216	0	0% a
Real Property Tax Total:			165,216	100%	165,216	0	0%	165,216	0	0%
Home and Comm Svc										
B00	4.2110	Zoning Fees	300	12%	2,500	2,200	88%	2,500	0	0% b
B00	4.2115	Planning Board Fees	300	15%	2,000	1,700	85%	2,000	0	0% b
B00	4.2189	Code Enforcemnt - V/Fville	0	100%	0	0	0%	0	0	100% b
B00	4.2191	Code Enforcemnt - V/Manlius	0	100%	0	0	0%	0	0	100% b
Home and Comm Svc Total:			600	13%	4,500	3,900	87%	4,500	0	0%
Use of Money and Property										
B00	4.2401	Interest & Earnings	1,577	53%	3,000	1,423	47%	3,000	0	0% b
Use of Money and Property Total:			1,577	53%	3,000	1,423	47%	3,000	0	0%
Building Permits										
B00	4.2555	Building & Alteration Permits	7,397	11%	65,000	57,603	89%	65,000	0	0% b
B00	4.2590	Permits, Other	0	100%	0	0	0%	0	0	100% b
Building Permits Total:			7,397	11%	65,000	57,603	89%	65,000	0	0%
Sale of Property and Comp Loss										
B00	4.2655	Minor Sales	30	100%	0	-30	0%	30	30	100% a
Sale of Property and Comp Loss Total:			30	100%	0	-30	100%	30	30	100%
Miscellaneous Revenue										
B00	4.2701	Refunds of Prior Year Expenses	0	100%	0	0	0%	0	0	100% b
B00	4.2770	Unclassified Revenue	1,100	100%	0	-1,100	0%	1,100	1,100	100% a
Miscellaneous Revenue Total:			1,100	100%	0	-1,100	100%	1,100	1,100	100%
State Aid - General										
B00	4.3789.300	CFA Grant	0	100%	0	0	0%	0	0	100% b
State Aid - General Total:			0	100%	0	0	100%	0	0	100%
Interfund Transfers										
B00	4.5031	Interfund Transfers	0	100%	0	0	0%	0	0	100% b
Interfund Transfers Total:			0	100%	0	0	100%	0	0	100%
Appropriations										
B00	4.9600	Appropriations	0	0%	175,000	175,000	100%	175,000	0	0% b
B00	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
B00	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	0%	175,000	175,000	100%	175,000	0	0%
Revenue Total:			175,920	43%	412,716	236,796	57%	413,846	1,130	0%

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual			Budget			Projected Year End		
			1/1 -	2/28/2023	17%	Annual	Remaining	83%	Actual	Budget Var - %	
Expense											
Special Items											
B00	5.1990.400	Contingent Account	0	100%		0	0	0%	0	0	100% b
Special Items Total:			0	100%		0	0	100%	0	0	100%
Planning and Development											
B00	5.3620.100	P & D - Personal Services	21,983	13%		170,541	148,558	87%	142,890	-27,651	-16% 2
B00	5.3620.200	P & D - Equipment	0	100%		0	0	0%	0	0	100% b
B00	5.3620.400	P & D - Contractual	12,186	100%		0	-12,186	0%	12,186	12,186	100% a
B00	5.3620.401	P & D - Office Supplies	64	3%		2,000	1,936	97%	2,000	0	0% b
B00	5.3620.402	P & D - Training/Conferences	1,780	59%		3,000	1,220	41%	3,000	0	0% b
B00	5.3620.403	P & D - Associations/Dues	350	47%		750	400	53%	750	0	0% b
B00	5.3620.404	P & D - Books Publications	320	64%		500	180	36%	500	0	0% b
B00	5.3620.405	P & D - Information Technology	8,671	58%		15,000	6,329	42%	15,000	0	0% b
B00	5.3620.408	P & D - Printing/Advertising	0	100%		0	0	0%	0	0	100% b
B00	5.3620.410	P & D - Engineer	0	0%		30,000	30,000	100%	30,000	0	0% b
B00	5.3620.416	P & D - Travel Expense	0	0%		500	500	100%	500	0	0% b
B00	5.3620.421	P & D - Phone	143	10%		1,500	1,357	90%	1,500	0	0% b
B00	5.3620.461	P & D - Uniforms/Cleaning	0	0%		700	700	100%	700	0	0% b
B00	5.3620.462	P & D - Community Relations	3,600	100%		3,600	0	0%	3,600	0	0% b
Planning and Development Total:			49,097	22%		228,091	178,994	78%	212,626	-15,465	-7%
Planning											
B00	5.8020.100	Planning - Personal Services	0	0%		38,333	38,333	100%	0	-38,333	-100% 2
B00	5.8020.400	Planning - Contractual	0	100%		0	0	0%	0	0	100% b
B00	5.8020.401	Planning - Office Supplies	13	2%		720	707	98%	720	0	0% b
B00	5.8020.402	Planning - Seminars/Conference	375	75%		500	125	25%	500	0	0% b
B00	5.8020.408	Planning - Advertising	0	0%		800	800	100%	800	0	0% b
B00	5.8020.410	Planning - Engineer	0	0%		15,000	15,000	100%	15,000	0	0% b
B00	5.8020.450	Planning - Attorney	1,787	9%		20,000	18,213	91%	20,000	0	0% b
Planning Total:			2,175	3%		75,353	73,178	97%	37,020	-38,333	-51%
Zoning											
B00	5.8010.100	Zoning - Personal Services	0	0%		14,040	14,040	100%	0	-14,040	-100% 2
B00	5.8010.400	Zoning - Contractual	0	100%		0	0	0%	0	0	100% b
B00	5.8010.401	Zoning - Office Supplies	0	0%		450	450	100%	450	0	0% b
B00	5.8010.402	Zoning - Seminars	0	0%		400	400	100%	400	0	0% b
B00	5.8010.408	Zoning - Advertising	219	27%		800	581	73%	800	0	0% b
B00	5.8010.450	Zoning - Attorney	561	14%		4,000	3,439	86%	4,000	0	0% b
Zoning Total:			780	4%		19,690	18,910	96%	5,650	-14,040	-71%
Employee Benefits - NYS Retirement											
B00	5.9010.800	P & D - NYS Retirement	8,354	100%		8,354	0	0%	8,354	0	0% b
Employee Benefits - NYS Retirement Total:			8,354	100%		8,354	0	0%	8,354	0	0%

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
1/1 -			2/28/2023	17%	Annual	Remaining	83%	Actual	Budget Var - %	
<u>Employee Benefits - Health Ins</u>										
B00	5.9060.800	P & D - Hospital & Medical Ins	9,633	16%	59,567	49,934	84%	59,567	0	0% b
Employee Benefits - Health Ins Total:			9,633	16%	59,567	49,934	84%	59,567	0	0%
<u>Employee Benefits - Ins Opt Out</u>										
B00	5.9061.800	P & D - Opt-Out	0	100%	0	0	0%	0	0	100% b
Employee Benefits - Ins Opt Out Total:			0	100%	0	0	100%	0	0	100%
<u>Employee Benefits - FICA</u>										
B00	5.9030.800	P & D - FICA	1,540	9%	17,054	15,514	91%	17,054	0	0% b
Employee Benefits - FICA Total:			1,540	9%	17,054	15,514	91%	17,054	0	0%
<u>Employee Benefits - Workers Comp</u>										
B00	5.9040.800	P & D - Workers Compensation	0	0%	4,357	4,357	100%	4,357	0	0% b
Employee Benefits - Workers Comp Total:			0	0%	4,357	4,357	100%	4,357	0	0%
<u>Employee Benefits - Other</u>										
B00	5.9055.800	P & D - Disability Insurance	41	16%	250	209	84%	250	0	0% b
Employee Benefits - Other Total:			41	16%	250	209	84%	250	0	0%
<u>Appropriations</u>										
B00	5.9602	Budgetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			71,620	17%	412,716	341,096	83%	344,878	-67,838	-16%
B00 General Part Town Total:			104,300		0	-104,300		68,968	68,968	

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
1/1 - 2/28/2023 17%			Annual	Remaining	83%	Actual	Budget	Var	- %	
CM1 Police Special Rev.										
Revenue										
Police - Special Items (Revenue)										
CM1	4.1589.93	Stop DWI - Quarterly Payments	18,039	100%	0	-18,039	0%	18,039	18,039	100% a
CM1	4.2401	Earned Interest - Pooled Cash	112	100%	0	-112	0%	112	112	100% a
CM1	4.2401.91	Interest - Drug Enforcement	0	100%	0	0	0%	0	0	100% b
CM1	4.2401.92	Interest - Police Equipment	0	100%	0	0	0%	0	0	100% b
CM1	4.2401.93	Interest - DWI Equipment	0	100%	0	0	0%	0	0	100% b
CM1	4.2401.94	Interest - Defibrillators	0	100%	0	0	0%	0	0	100% b
CM1	4.2401.95	Interest - Wall of Honor	0	100%	0	0	0%	0	0	100% b
CM1	4.2705.92	Donations - Police Equipment	0	100%	0	0	0%	0	0	100% b
CM1	4.2705.93	Donations - Defibrillators	0	100%	0	0	0%	0	0	100% b
CM1	4.2705.94	Donations - Wall of Honor	0	100%	0	0	0%	0	0	100% b
CM1	4.2715.91	Proceeds of Seized Property	0	100%	0	0	0%	0	0	100% b
CM1	4.3389.91	Drug Enforcement Grant	0	100%	0	0	0%	0	0	100% b
CM1	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
CM1	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
CM1	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Police - Special Items (Revenue) Total:			18,151	100%	0	-18,151	100%	18,151	18,151	100%
Revenue Total:			18,151	100%	0	-18,151	100%	18,151	18,151	100%
Expense										
Police - Special Items (Revenue)										
CM1	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Police - Special Items (Revenue) Total:			0	100%	0	0	100%	0	0	100%
Police - Special Items (Expense)										
CM1	5.3120.491	Drug Enforcement - Contractual	0	100%	0	0	0%	0	0	100% b
CM1	5.3120.492	Police Equipment - Contractual	0	100%	0	0	0%	0	0	100% b
CM1	5.3120.493	DWI Equipment - Contractual	0	100%	0	0	0%	0	0	100% b
CM1	5.3120.494	Defibrillators - Contractual	0	100%	0	0	0%	0	0	100% b
CM1	5.3120.495	Wall of Honor - Contractual	0	100%	0	0	0%	0	0	100% b
Police - Special Items (Expense) Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	100%	0	0	100%	0	0	100%
CM1 Police Special Rev. Total:			18,151		0	-18,151		18,151	18,151	

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End			
1/1 - 2/28/2023 17%			Annual			Remaining		83%	Actual	Budget Var - %	
CM2 Flood Water Study											
Revenue											
Use of Money and Property											
CM2	4.2401	Interest & Earnings	8	100%	0	-8	0%	8	8	100%	a
Use of Money and Property Total:			8	100%	0	-8	100%	8	8	100%	
Miscellaneous Revenue											
CM2	4.2701	Refund of Prior Year Expendtrs	0	100%	0	0	0%	0	0	100%	b
Miscellaneous Revenue Total:			0	100%	0	0	100%	0	0	100%	
State Aid - General											
CM2	4.4089	DEC Grant	0	100%	0	0	0%	0	0	100%	b
State Aid - General Total:			0	100%	0	0	100%	0	0	100%	
Appropriations											
CM2	4.9600	Appropriations	0	100%	0	0	0%	0	0	100%	b
CM2	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100%	b
CM2	4.9800	Revenues	0	100%	0	0	0%	0	0	100%	b
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Revenue Total:			8	100%	0	-8	100%	8	8	100%	
Expense											
Water Admin											
CM2	5.8989.400	Flood Water Study - Contract	0	100%	0	0	0%	0	0	100%	b
Water Admin Total:			0	100%	0	0	100%	0	0	100%	
Appropriations											
CM2	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100%	b
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Expense Total:			0	100%	0	0	100%	0	0	100%	
CM2 Flood Water Study Total:			8		0	-8		8	8		

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End				
1/1 - 2/28/2023 17%			Annual			Remaining 83%			Actual		Budget Var - %	
CM3 Sustainable Manlius												
Revenue												
Use of Money and Property												
CM3	4.2401	Interest & Earnings	21	100%	0	-21	0%	21	21	100%	a	
Use of Money and Property Total:			21	100%	0	-21	100%	21	21	100%		
Miscellaneous Revenue												
CM3	4.2705	Donations	7,550	100%	0	-7,550	0%	7,550	7,550	100%	a	
Miscellaneous Revenue Total:			7,550	100%	0	-7,550	100%	7,550	7,550	100%		
State Aid - General												
CM3	4.3010	NYSERDA Grant	0	100%	0	0	0%	0	0	100%	b	
State Aid - General Total:			0	100%	0	0	100%	0	0	100%		
Revenue Total:			7,571	100%	0	-7,571	100%	7,571	7,571	100%		
Expense												
Appropriations												
CM3	5.6789.200	Sustain Manlius - Equipment	0	100%	0	0	0%	0	0	100%	b	
CM3	5.6789.400	Sustain Manlius - Contractual	0	100%	0	0	0%	0	0	100%	b	
Appropriations Total:			0	100%	0	0	100%	0	0	100%		
Expense Total:			0	100%	0	0	100%	0	0	100%		
CM3 Sustainable Manlius Total:			7,571		0	-7,571		7,571	7,571			

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Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End				
1/1 - 2/28/2023 17%			Annual			Remaining		83%	Actual		Budget Var - %	
CM4 Court Special Rev.												
Revenue												
Use of Money and Property												
CM4	4.2401	Interest & Earnings	6	100%	0	-6	0%	6	6	100%	a	
Use of Money and Property Total:			6	100%	0	-6	100%	6	6	100%		
Fines and Forfeitures												
CM4	4.1289	DWI Arraignments	290	100%	0	-290	0%	290	290	100%	a	
Fines and Forfeitures Total:			290	100%	0	-290	100%	290	290	100%		
Appropriations												
CM4	4.9600	Appropriations	0	100%	0	0	0%	0	0	100%	b	
CM4	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100%	b	
CM4	4.9800	Revenues	0	100%	0	0	0%	0	0	100%	b	
Appropriations Total:			0	100%	0	0	100%	0	0	100%		
Revenue Total:			296	100%	0	-296	100%	296	296	100%		
Expense												
Justices												
CM4	5.1110.200	Justices - Equipment	0	100%	0	0	0%	0	0	100%	b	
CM4	5.1110.400	Justices - Contractual	86	100%	0	-86	0%	86	86	100%	a	
Justices Total:			86	100%	0	-86	100%	86	86	100%		
Appropriations												
CM4	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100%	b	
Appropriations Total:			0	100%	0	0	100%	0	0	100%		
Expense Total:			86	100%	0	-86	100%	86	86	100%		
CM4 Court Special Rev. Total:			210		0	-210		210	210			

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual			Budget			Projected Year End		
1/1 - 2/28/2023 17%			Annual			Remaining 83%			Actual Budget Var - %		
CM5 Parkland Trust											
Revenue											
Use of Money and Property											
CM5	4.2401	Interest & Earnings	75	100%	0	-75	0%	75	75	100%	a
Use of Money and Property Total:			75	100%	0	-75	100%	75	75	100%	
Miscellaneous Revenue											
CM5	4.2089	Parkland Fees	0	100%	0	0	0%	0	0	100%	b
Miscellaneous Revenue Total:			0	100%	0	0	100%	0	0	100%	
Appropriations											
CM5	4.9600	Appropriations	0	100%	0	0	0%	0	0	100%	b
CM5	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100%	b
CM5	4.9800	Revenues	0	100%	0	0	0%	0	0	100%	b
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Revenue Total:			75	100%	0	-75	100%	75	75	100%	
Expense											
Appropriations											
CM5	5.1380	Bank Service Fees	0	100%	0	0	0%	0	0	100%	b
CM5	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100%	b
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Expense Total:			0	100%	0	0	100%	0	0	100%	
CM5 Parkland Trust Total:			75		0	-75		75	75		

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
			1/1 -	2/28/2023	17%	Annual	Remaining	83%	Actual	Budget Var - %
DA0 Highway Townwide										
Revenue										
Real Property Tax										
DA0	4.1001	Real Property Taxes	2,368,077	100%	2,368,077	0	0%	2,368,077	0	0% a
Real Property Tax Total:			2,368,077	100%	2,368,077	0	0%	2,368,077	0	0%
Intergovernmental Charges										
DA0	4.2300	Transportation Services	0	0%	96,869	96,869	100%	96,869	0	0% b
Intergovernmental Charges Total:			0	0%	96,869	96,869	100%	96,869	0	0%
Use of Money and Property										
DA0	4.2401	Interest & Earnings	3,283	328%	1,000	-2,283	0%	3,283	2,283	228% a
DA0	4.2401.01	Interest & Earnings - Reserves	0	100%	0	0	0%	0	0	100% b
Use of Money and Property Total:			3,283	328%	1,000	-2,283	-228%	3,283	2,283	228%
Sale of Property and Comp Loss										
DA0	4.2650	Sales of Scrap & Material	356	36%	1,000	644	64%	1,000	0	0% b
DA0	4.2665	Sale of Equipment	0	0%	25,000	25,000	100%	25,000	0	0% b
DA0	4.2680	Insurance Recovery	0	100%	0	0	0%	0	0	100% b
Sale of Property and Comp Loss Total:			356	1%	26,000	25,644	99%	26,000	0	0%
Miscellaneous Revenue										
DA0	4.2701	Refunds of Prior Year Expenses	0	100%	0	0	0%	0	0	100% b
DA0	4.2705	Gifts & Donations	0	100%	0	0	0%	0	0	100% b
DA0	4.2801	Interfund Revenues	0	100%	0	0	0%	0	0	100% b
Miscellaneous Revenue Total:			0	100%	0	0	100%	0	0	100%
State Aid - General										
DA0	4.3500	WIRP - Winter Severity Aid	0	0%	49,764	49,764	100%	49,764	0	0% b
State Aid - General Total:			0	0%	49,764	49,764	100%	49,764	0	0%
Appropriations										
DA0	4.9600	Appropriations	0	0%	100,000	100,000	100%	100,000	0	0% b
DA0	4.9602	Bugetary Prov For Other Uses	0	100%	0	0	0%	0	0	100% b
DA0	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	0%	100,000	100,000	100%	100,000	0	0%
Revenue Total:			2,371,716	90%	2,641,710	269,994	10%	2,643,993	2,283	0%
Expense										
Interfund Transfers										
DA0	5.9950.9R	Transfer to Capital Projects	0	100%	0	0	0%	0	0	100% b
Interfund Transfers Total:			0	100%	0	0	100%	0	0	100%
Machinery										
DA0	5.5112.200	Perm Improve Highway	0	100%	0	0	0%	0	0	100% b

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
1/1 - 2/28/2023			17%		Annual	Remaining	83%	Actual	Budget Var - %	
DA0	5.5130.200	Machinery - Equipment	-86,033	-31%	275,000	361,033	131%	275,000	0	0% b
DA0	5.5130.400	Machinery - Miscellaneous	0	100%	0	0	0%	0	0	100% b
DA0	5.5130.405	Machinery - Information Tech	0	100%	0	0	0%	0	0	100% b
DA0	5.5130.408	Machinery - Legal Notices	0	100%	0	0	0%	0	0	100% b
DA0	5.5130.411	Machinery - Vehicle Expenses	17,748	13%	140,000	122,252	87%	140,000	0	0% b
DA0	5.5130.440	Machinery - Equipment Expense	1,862	3%	70,000	68,138	97%	70,000	0	0% b
DA0	5.5130.447	Machinery - Shop Supply/Stock	2,084	20%	10,200	8,116	80%	10,200	0	0% b
DA0	5.5130.473	Machinery - Shop Tools	1,751	25%	7,000	5,249	75%	7,000	0	0% b
DA0	5.5130.474	Machinery - Tires	0	0%	4,391	4,391	100%	4,391	0	0% b
Machinery Total:			-62,588	-12%	506,591	569,179	112%	506,591	0	0%
Brush and Weeds										
DA0	5.5140.100	Brush & Weeds - Personal Srv	0	0%	48,579	48,579	100%	48,579	0	0% b
DA0	5.5140.101	Brush & Weeds - Overtime	0	0%	3,415	3,415	100%	3,415	0	0% b
DA0	5.5140.102	Brush & Weeds - Double Time	0	100%	0	0	0%	0	0	100% b
DA0	5.5140.400	Brush & Weeds - Miscellaneous	0	0%	100	100	100%	100	0	0% b
DA0	5.5140.402	Brush & Weeds - Seminars/Conf	0	0%	450	450	100%	450	0	0% b
DA0	5.5140.408	Brush & Weeds - Legal Advertis	0	0%	75	75	100%	75	0	0% b
DA0	5.5140.410	Brush & Weeds - Fuel	0	0%	4,500	4,500	100%	4,500	0	0% b
DA0	5.5140.440	Brush & Weeds - Equipment Re	0	0%	750	750	100%	750	0	0% b
DA0	5.5140.447	Brush & Weeds - Supplies/Trees	0	0%	2,000	2,000	100%	2,000	0	0% b
DA0	5.5140.473	Brush & Weeds - Tools	170	23%	750	580	77%	750	0	0% b
DA0	5.5140.477	Brush and Weeds - Equip Rental	0	100%	0	0	0%	0	0	100% b
DA0	5.5140.490	Brush & Weeds - Contractual S	0	0%	65,000	65,000	100%	65,000	0	0% b
Brush and Weeds Total:			170	0%	125,619	125,449	100%	125,619	0	0%
Snow Removal										
DA0	5.5142.100	Snow Removal - Personal Srv	212,718	34%	634,426	421,708	66%	634,426	0	0% b
DA0	5.5142.101	Snow Removal - Overtime	37,522	20%	186,471	148,949	80%	186,471	0	0% b
DA0	5.5142.102	Snow Removal - Double Time	7,329	13%	58,295	50,966	87%	58,295	0	0% b
DA0	5.5142.400	Snow Removal - Miscellaneous	48	5%	975	927	95%	975	0	0% b
DA0	5.5142.401	Snow Removal - Office Supplies	0	0%	1,530	1,530	100%	1,530	0	0% b
DA0	5.5142.404	Snow Removal - Subscriptions	0	0%	250	250	100%	250	0	0% b
DA0	5.5142.405	Snow Removal - Information Tec	0	100%	0	0	0%	0	0	100% b
DA0	5.5142.408	Snow Removal - Legal Adverts	0	0%	100	100	100%	100	0	0% b
DA0	5.5142.410	Snow Removal - Gasoline/Diesel	27,837	27%	101,250	73,413	73%	101,250	0	0% b
DA0	5.5142.421	Snow Removal - Phones/Pagers	0	0%	1,700	1,700	100%	1,700	0	0% b
DA0	5.5142.430	Snow Removal - Cleaning Suppl	96	2%	5,500	5,404	98%	5,500	0	0% b
DA0	5.5142.440	Snow Removal - Radios/CB's	0	0%	2,100	2,100	100%	2,100	0	0% b
DA0	5.5142.441	Snow Removal - Safety/Training	305	4%	7,000	6,695	96%	7,000	0	0% b
DA0	5.5142.447	Snow Removal - Shop Supplies	4,118	11%	37,891	33,773	89%	37,891	0	0% b
DA0	5.5142.448	Snow Removal - Uniforms/Clean	2,332	16%	15,000	12,668	84%	15,000	0	0% b
DA0	5.5142.470	Snow Removal - Materials	148,301	31%	480,430	332,129	69%	480,430	0	0% b
DA0	5.5142.471	Snow Removal - Repairs	218	1%	38,194	37,976	99%	38,194	0	0% b

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
	1/1 -	2/28/2023	17%		Annual	Remaining	83%	Actual	Budget Var -	%
DA0 5.5142.472	Snow Removal - Plow/Sand Eqp	8,485	25%		34,000	25,515	75%	34,000	0	0% b
DA0 5.5142.474	Snow Removal - Tires	0	0%		19,000	19,000	100%	19,000	0	0% b
Snow Removal Total:		449,309	28%		1,624,112	1,174,803	72%	1,624,112	0	0%
<u>Employee Benefits - NYS Retirement</u>										
DA0 5.9010.800	NYS Retirement	82,979	100%		82,979	0	0%	82,979	0	0% b
Employee Benefits - NYS Retirement Total:		82,979	100%		82,979	0	0%	82,979	0	0%
<u>Employee Benefits - Health Ins</u>										
DA0 5.9060.800	Hospital & Medical Insurance	60,345	31%		192,693	132,348	69%	192,693	0	0% b
Employee Benefits - Health Ins Total:		60,345	31%		192,693	132,348	69%	192,693	0	0%
<u>Employee Benefits - Ins Opt Out</u>										
DA0 5.9061.800	Health Insurance Opt-Out	738	30%		2,500	1,762	70%	2,500	0	0% b
Employee Benefits - Ins Opt Out Total:		738	30%		2,500	1,762	70%	2,500	0	0%
<u>Employee Benefits - FICA</u>										
DA0 5.9030.800	FICA	18,441	26%		71,236	52,795	74%	71,236	0	0% b
Employee Benefits - FICA Total:		18,441	26%		71,236	52,795	74%	71,236	0	0%
<u>Employee Benefits - Workers Comp</u>										
DA0 5.9040.800	Worker's Compensation	0	0%		34,880	34,880	100%	34,880	0	0% b
Employee Benefits - Workers Comp Total:		0	0%		34,880	34,880	100%	34,880	0	0%
<u>Employee Benefits - Other</u>										
DA0 5.9050.800	Unemployment	0	100%		0	0	0%	0	0	100% b
DA0 5.9055.800	Disability Insurance	177	16%		1,100	923	84%	1,100	0	0% b
Employee Benefits - Other Total:		177	16%		1,100	923	84%	1,100	0	0%
<u>BANs</u>										
DA0 5.9789.600	Snow Removal - Lease Principal	0	100%		0	0	0%	0	0	100% b
DA0 5.9789.700	Snow Removal - Lease Interest	0	100%		0	0	0%	0	0	100% b
BANs Total:		0	100%		0	0	100%	0	0	100%
<u>Appropriations</u>										
DA0 5.9602	Budgetary Prov - Fund Balance	0	100%		0	0	0%	0	0	100% b
Appropriations Total:		0	100%		0	0	100%	0	0	100%
Expense Total:		549,571	21%		2,641,710	2,092,139	79%	2,641,710	0	0%
DA0 Highway Townwide Total:		1,822,145			0	-1,822,145		2,283	2,283	

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
			1/1 -	2/28/2023	17%	Annual	Remaining	83%	Actual	Budget Var - %
DB0 Highway Part Town										
Revenue										
Real Property Tax										
DB0	4.1001	Real Property Taxes	1,983,581	100%	1,983,424	-157	0%	1,983,581	157	0% a
Real Property Tax Total:			1,983,581	100%	1,983,424	-157	0%	1,983,581	157	0%
Use of Money and Property										
DB0	4.2401	Interest & Earnings	3,418	342%	1,000	-2,418	0%	3,418	2,418	242% a
Use of Money and Property Total:			3,418	342%	1,000	-2,418	-242%	3,418	2,418	242%
Sale of Property and Comp Loss										
DB0	4.2680	Insurance Recoveries	0	100%	0	0	0%	0	0	100% b
Sale of Property and Comp Loss Total:			0	100%	0	0	100%	0	0	100%
Miscellaneous Revenue										
DB0	4.2701	Refunds of Prior Years Expe	0	100%	0	0	0%	0	0	100% b
DB0	4.2770	Other Unclassified Revenue	0	100%	0	0	0%	0	0	100% b
Miscellaneous Revenue Total:			0	100%	0	0	100%	0	0	100%
State Aid - General										
DB0	4.3500	Extreme Winter Recover	0	100%	0	0	0%	0	0	100% b
DB0	4.3501	CHIPS Program	0	0%	329,377	329,377	100%	329,377	0	0% b
DB0	4.4960	Federal Aid Disaster Assistanc	0	100%	0	0	0%	0	0	100% b
State Aid - General Total:			0	0%	329,377	329,377	100%	329,377	0	0%
Interfund Transfers										
DB0	4.5031	Interfund Transfers	0	100%	0	0	0%	0	0	100% b
Interfund Transfers Total:			0	100%	0	0	100%	0	0	100%
Appropriations										
DB0	4.9600	Appropriations	0	0%	200,000	200,000	100%	200,000	0	0% b
DB0	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
DB0	4.9620	Budgetary Provisions For Other	0	100%	0	0	0%	0	0	100% b
DB0	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	0%	200,000	200,000	100%	200,000	0	0%
Revenue Total:			1,986,999	79%	2,513,801	526,802	21%	2,516,376	2,575	0%
Expense										
General Repairs										
DB0	5.5110.100	General Repairs - Personal Srv	0	0%	666,368	666,368	100%	666,368	0	0% b
DB0	5.5110.101	General Repairs - Overtime	0	0%	16,882	16,882	100%	16,882	0	0% b
DB0	5.5110.102	General Repairs - Doubletime	0	0%	645	645	100%	645	0	0% b
DB0	5.5110.400	General Repairs - Miscellaneous	0	0%	500	500	100%	500	0	0% b
DB0	5.5110.405	General Repairs - Engineer	0	0%	10,000	10,000	100%	10,000	0	0% b
DB0	5.5110.408	General Repairs - Printing & Adv	0	0%	60	60	100%	60	0	0% b

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual			Budget			Projected Year End		
1/1 - 2/28/2023			17%			Annual	Remaining	83%	Actual	Budget Var - %	
DB0	5.5110.410	General Repairs - Diesel	0	0%		67,500	67,500	100%	67,500	0	0% b
DB0	5.5110.430	General Repairs - Stop Chemica	0	0%		7,500	7,500	100%	7,500	0	0% b
DB0	5.5110.441	General Repairs - Safety/Train	0	0%		1,000	1,000	100%	1,000	0	0% b
DB0	5.5110.450	General Repairs - Contractual	0	0%		410,983	410,983	100%	410,983	0	0% b
DB0	5.5110.472	General Repairs - Signs	3,021	22%		13,500	10,479	78%	13,500	0	0% b
DB0	5.5110.473	General Repairs - Road Tools	530	53%		1,000	470	47%	1,000	0	0% b
DB0	5.5110.474	General Repairs - Tires	0	0%		5,500	5,500	100%	5,500	0	0% b
DB0	5.5110.475	General Repairs - Road Repair	1,330	0%		855,832	854,502	100%	855,832	0	0% b
DB0	5.5110.476	General Repairs - Road Paint	0	0%		34,240	34,240	100%	34,240	0	0% b
DB0	5.5110.477	General Repairs - Equipment	0	0%		1,000	1,000	100%	1,000	0	0% b
DB0	5.5110.478	General Repairs - Drainage	41	0%		43,575	43,534	100%	43,575	0	0% b
DB0	5.5112.200	Perm Improve Highway	0	100%		0	0	0%	0	0	100% b
General Repairs Total:			4,922	0%		2,136,085	2,131,163	100%	2,136,085	0	0%
<u>Employee Benefits - NYS Retirement</u>											
DB0	5.9010.800	NYS Retirement	82,979	100%		82,979	0	0%	82,979	0	0% b
Employee Benefits - NYS Retirement Total:			82,979	100%		82,979	0	0%	82,979	0	0%
<u>Employee Benefits - Health Ins</u>											
DB0	5.9060.800	Hospital & Medical Insurance	0	0%		192,693	192,693	100%	192,693	0	0% b
Employee Benefits - Health Ins Total:			0	0%		192,693	192,693	100%	192,693	0	0%
<u>Employee Benefits - Ins Opt Out</u>											
DB0	5.9061.800	Health Insurance Opt-Out	0	0%		2,500	2,500	100%	2,500	0	0% b
Employee Benefits - Ins Opt Out Total:			0	0%		2,500	2,500	100%	2,500	0	0%
<u>Employee Benefits - FICA</u>											
DB0	5.9030.800	FICA	0	0%		63,564	63,564	100%	63,564	0	0% b
Employee Benefits - FICA Total:			0	0%		63,564	63,564	100%	63,564	0	0%
<u>Employee Benefits - Workers Comp</u>											
DB0	5.9040.800	Worker's Compensation	0	0%		34,880	34,880	100%	34,880	0	0% b
Employee Benefits - Workers Comp Total:			0	0%		34,880	34,880	100%	34,880	0	0%
<u>Employee Benefits - Other</u>											
DB0	5.9055.800	Disability Insurance	181	16%		1,100	919	84%	1,100	0	0% b
Employee Benefits - Other Total:			181	16%		1,100	919	84%	1,100	0	0%
<u>Appropriations</u>											
DB0	5.9602	Bugetary Prov - Fund Balance	0	100%		0	0	0%	0	0	100% b
Appropriations Total:			0	100%		0	0	100%	0	0	100%
Expense Total:			88,082	4%		2,513,801	2,425,719	96%	2,513,801	0	0%
DB0 Highway Part Town Total:			1,898,917			0	-1,898,917		2,575	2,575	

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
1/1 - 2/28/2023 17%					Annual	Remaining	83%	Actual	Budget Var - %	
HA0 Landfill Capital Fund										
Revenue										
Use of Money and Property										
HA0	4.2401	Interest & Earnings	41	100%	0	-41	0%	41	41	100% a
Use of Money and Property Total:			41	100%	0	-41	100%	41	41	100%
Appropriations										
HA0	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
HA0	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
HA0	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			41	100%	0	-41	100%	41	41	100%
Expense										
Refuse										
HA0	5.8160.200	Landfill Closure - Capital Out	0	100%	0	0	0%	0	0	100% b
Refuse Total:			0	100%	0	0	100%	0	0	100%
Appropriations										
HA0	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	100%	0	0	100%	0	0	100%
HA0 Landfill Capital Fund Total:			41		0	-41		41	41	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual			Budget			Projected Year End		
1/1 - 2/28/2023 17%			Annual			Remaining 83%			Actual Budget Var - %		
HB0 Watervale Rd. Water Ext.											
Revenue											
Use of Money and Property											
HB0	4.2401	Interest & Earnings	0	100%	0	0	0%	0	0	100%	b
Use of Money and Property Total:			0	100%	0	0	100%	0	0	100%	
BANs											
HB0	4.5730	BAN's Redeemed From Approp	0	100%	0	0	0%	0	0	100%	b
BANs Total:			0	100%	0	0	100%	0	0	100%	
Appropriations											
HB0	4.9600	Appropriations	0	100%	0	0	0%	0	0	100%	b
HB0	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100%	b
HB0	4.9800	Revenues	0	100%	0	0	0%	0	0	100%	b
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Revenue Total:			0	100%	0	0	100%	0	0	100%	
Expense											
Water Trans-Distrib											
HB0	5.8340.200	Trans/Dist - Capital Outlay	0	100%	0	0	0%	0	0	100%	b
Water Trans-Distrib Total:			0	100%	0	0	100%	0	0	100%	
Appropriations											
HB0	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100%	b
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Expense Total:			0	100%	0	0	100%	0	0	100%	
HB0 Watervale Rd. Water Ext. Total:			0		0	0		0	0		

Town of Manlius

Budget Report - Fund Detail

			YTD Actual			Budget			Projected Year End		
1/1 - 2/28/2023 17%			Annual			Remaining 83%			Actual Budget Var - %		
HD0 Thompson Sewer Dist.											
Revenue											
Use of Money and Property											
HD0	4.2401	Interest & Earnings	0	100%	0	0	0%	0	0	100%	b
Use of Money and Property Total:			0	100%	0	0	100%	0	0	100%	
BANs											
HD0	4.5710	Proceeds of Serial Bonds	0	100%	0	0	0%	0	0	100%	b
BANs Total:			0	100%	0	0	100%	0	0	100%	
Appropriations											
HD0	4.9600	Appropriations	0	100%	0	0	0%	0	0	100%	b
HD0	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100%	b
HD0	4.9800	Revenues	0	100%	0	0	0%	0	0	100%	b
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Revenue Total:			0	100%	0	0	100%	0	0	100%	
Expense											
Sewer											
HD0	5.8120.200	Sanitary Sewers - Capital Otlly	0	100%	0	0	0%	0	0	100%	b
Sewer Total:			0	100%	0	0	100%	0	0	100%	
Appropriations											
HD0	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100%	b
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Expense Total:			0	100%	0	0	100%	0	0	100%	
HD0 Thompson Sewer Dist. Total:			0		0	0		0	0		

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

		YTD Actual		Budget			Projected Year End		
		1/1 -	2/28/2023	17%	Annual	Remaining	83%	Actual	Budget Var - %
HE0 Salt Storage Facility									
Revenue									
Real Property Tax									
HE0	4.1001	Real Property Taxes	0	100%	0	0	0%	0	0 100% a
Real Property Tax Total:			0	100%	0	0	100%	0	0 100%
Use of Money and Property									
HE0	4.2401	Interest & Earnings	393	100%	0	-393	0%	393	393 100% a
Use of Money and Property Total:			393	100%	0	-393	100%	393	393 100%
Interfund Transfers									
HE0	4.5031	Interfund Transfers	0	100%	0	0	0%	0	0 100% b
Interfund Transfers Total:			0	100%	0	0	100%	0	0 100%
BANs									
HE0	4.5730	Bond Anticipation Notes	0	100%	0	0	0%	0	0 100% b
BANs Total:			0	100%	0	0	100%	0	0 100%
Appropriations									
HE0	4.9600	Appropriations	0	100%	0	0	0%	0	0 100% b
HE0	4.9602	Budgetary Prov for Other Uses	0	100%	0	0	0%	0	0 100% b
HE0	4.9800	Revenues	0	100%	0	0	0%	0	0 100% b
Appropriations Total:			0	100%	0	0	100%	0	0 100%
Revenue Total:			393	100%	0	-393	100%	393	393 100%
Expense									
Town Board									
HE0	5.1000	Prior Year Expenses	0	100%	0	0	0%	0	0 100% b
Town Board Total:			0	100%	0	0	100%	0	0 100%
Garage/Salt Storage									
HE0	5.5132.200	Salt Storage Facility - Cap Ot	0	100%	0	0	0%	0	0 100% b
Garage/Salt Storage Total:			0	100%	0	0	100%	0	0 100%
BANs									
HE0	5.9730.600	BAN - Principal	0	100%	0	0	0%	0	0 100% b
HE0	5.9730.700	BAN - Interest	0	100%	0	0	0%	0	0 100% b
BANs Total:			0	100%	0	0	100%	0	0 100%
Appropriations									
HE0	5.9602	Budgetary Prov - Fund Balance	0	100%	0	0	0%	0	0 100% b
Appropriations Total:			0	100%	0	0	100%	0	0 100%
Expense Total:			0	100%	0	0	100%	0	0 100%
HE0 Salt Storage Facility Total:			393		0	-393		393	393

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End			
1/1 - 2/28/2023 17%					Annual	Remaining	83%	Actual	Budget Var - %		
HG0 Highway Garage Roof											
Revenue											
Real Property Tax											
HG0	4.1001	Real Property Taxes	0	100%	0	0	0%	0	0	100%	a
Real Property Tax Total:			0	100%	0	0	100%	0	0	100%	
Use of Money and Property											
HG0	4.2401	Interest & Earnings	91	100%	0	-91	0%	91	91	100%	a
Use of Money and Property Total:			91	100%	0	-91	100%	91	91	100%	
BANs											
HG0	4.5730	Bond Anticipation Notes	0	100%	0	0	0%	0	0	100%	b
BANs Total:			0	100%	0	0	100%	0	0	100%	
Revenue Total:			91	100%	0	-91	100%	91	91	100%	
Expense											
Garage/Salt Storage											
HG0	5.5132.200	Garage - Bldg and Eqpt	0	100%	0	0	0%	0	0	100%	b
Garage/Salt Storage Total:			0	100%	0	0	100%	0	0	100%	
Expense Total:			0	100%	0	0	100%	0	0	100%	
HG0 Highway Garage Roof Total:			91		0	-91		91	91		

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

				YTD Actual		Budget		Projected Year End		
1/1 - 2/28/2023 17%				Annual	Remaining	83%	Actual	Budget Var - %		
HW0 Town Hall Windows										
Revenue										
Use of Money and Property										
HW0 4.2401	Interest & Earnings			0	100%	0	0	0%	0	0 100% b
Use of Money and Property Total:				0	100%	0	0	100%	0	0 100%
BANs										
HW0 4.5730	Bond Anticipation Notes			0	100%	0	0	0%	0	0 100% b
BANs Total:				0	100%	0	0	100%	0	0 100%
Revenue Total:				0	100%	0	0	100%	0	0 100%
Expense										
Garage/Salt Storage										
HW0 5.5132.200	Town Hall Windows			0	100%	0	0	0%	0	0 100% b
Garage/Salt Storage Total:				0	100%	0	0	100%	0	0 100%
Expense Total:				0	100%	0	0	100%	0	0 100%
HW0 Town Hall Windows Total:				0		0	0		0	0

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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a = Actual YTD; b = Annual budget; p = Projected amount

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Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End			
1/1 - 2/28/2023 17%			Annual	Remaining	83%	Actual	Budget Var - %				
SD1 Consolidated Drainage #1											
Revenue											
Real Property Tax											
SD1	4.1001	Real Property Taxes	65,775	100%	65,775	0	0%	65,775	0	0%	b
Real Property Tax Total:			65,775	100%	65,775	0	0%	65,775	0	0%	
Use of Money and Property											
SD1	4.2401	Interest & Earnings	590	100%	0	-590	0%	590	590	100%	a
Use of Money and Property Total:			590	100%	0	-590	100%	590	590	100%	
Appropriations											
SD1	4.9600	Appropriations	0	100%	0	0	0%	0	0	100%	b
SD1	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100%	b
SD1	4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100%	b
SD1	4.9800	Revenues	0	100%	0	0	0%	0	0	100%	b
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Revenue Total:			66,365	101%	65,775	-590	-1%	66,365	590	1%	
Expense											
Drainage											
SD1	5.8540.400	Drainage - Contractual	0	0%	65,775	65,775	100%	65,775	0	0%	b
Drainage Total:			0	0%	65,775	65,775	100%	65,775	0	0%	
Appropriations											
SD1	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100%	b
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Expense Total:			0	0%	65,775	65,775	100%	65,775	0	0%	
SD1 Consolidated Drainage #1 Total:			66,365		0	-66,365		590	590		

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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Town of Manlius

Budget Report - Fund Detail

		YTD Actual		Budget			Projected Year End		
		1/1 -	2/28/2023	17%	Annual	Remaining	83%	Actual	Budget Var - %
SD2 Consolidated Drainage #2									
Revenue									
Real Property Tax									
SD2	4.1001	Real Property Taxes	34,397	100%	34,400	3	0%	34,400	0 0% b
Real Property Tax Total:			34,397	100%	34,400	3	0%	34,400	0 0%
Use of Money and Property									
SD2	4.2401	Interest & Earnings	290	100%	0	-290	0%	290	290 100% a
Use of Money and Property Total:			290	100%	0	-290	100%	290	290 100%
Appropriations									
SD2	4.9600	Appropriations	0	100%	0	0	0%	0	0 100% b
SD2	4.9602	Budgetary Prov for Other Uses	0	100%	0	0	0%	0	0 100% b
SD2	4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0 100% b
SD2	4.9800	Revenues	0	100%	0	0	0%	0	0 100% b
Appropriations Total:			0	100%	0	0	100%	0	0 100%
Revenue Total:			34,687	101%	34,400	-287	-1%	34,690	290 1%
Expense									
Drainage									
SD2	5.8540.400	Drainage - Contractual	0	0%	34,400	34,400	100%	34,400	0 0% b
Drainage Total:			0	0%	34,400	34,400	100%	34,400	0 0%
Appropriations									
SD2	5.9602	Budgetary Prov - Fund Balance	0	100%	0	0	0%	0	0 100% b
Appropriations Total:			0	100%	0	0	100%	0	0 100%
Expense Total:			0	0%	34,400	34,400	100%	34,400	0 0%
SD2 Consolidated Drainage #2 Total:			34,687		0	-34,687		290	290

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End			
1/1 - 2/28/2023 17%					Annual	Remaining	83%	Actual	Budget Var - %		
SD3 Consolidated Drainage #3											
Revenue											
Real Property Tax											
SD3	4.1001	Real Property Taxes	88,219	100%	88,225	6	0%	88,225	0	0% b	
Real Property Tax Total:			88,219	100%	88,225	6	0%	88,225	0	0%	
Use of Money and Property											
SD3	4.2401	Interest & Earnings	1,340	100%	0	-1,340	0%	1,340	1,340	100% a	
Use of Money and Property Total:			1,340	100%	0	-1,340	100%	1,340	1,340	100%	
Interfund Transfers											
SD3	4.5031	Interfund Transfers	0	100%	0	0	0%	0	0	100% b	
Interfund Transfers Total:			0	100%	0	0	100%	0	0	100%	
Appropriations											
SD3	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b	
SD3	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b	
SD3	4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100% b	
SD3	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b	
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Revenue Total:			89,559	102%	88,225	-1,334	-2%	89,565	1,340	2%	
Expense											
Drainage											
SD3	5.8540.400	Drainage - Contractual	3,210	4%	88,225	85,015	96%	88,225	0	0% b	
Drainage Total:			3,210	4%	88,225	85,015	96%	88,225	0	0%	
Appropriations											
SD3	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b	
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Expense Total:			3,210	4%	88,225	85,015	96%	88,225	0	0%	
SD3 Consolidated Drainage #3 Total:			86,349		0	-86,349		1,340	1,340		

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual			Budget			Projected Year End		
			1/1 -	2/28/2023	17%	Annual	Remaining	83%	Actual	Budget Var - %	
SF1 Fayetteville Fire Protection											
Revenue											
Real Property Tax											
SF1	4.1001	Real Property Taxes	1,994,114	100%	1,994,075	-39	0%		1,994,114	39	0% a
Real Property Tax Total:			1,994,114	100%	1,994,075	-39	0%		1,994,114	39	0%
Use of Money and Property											
SF1	4.2401	Interest & Earnings	9	100%	0	-9	0%		9	9	100% a
Use of Money and Property Total:			9	100%	0	-9	100%		9	9	100%
Appropriations											
SF1	4.9600	Appropriations	0	100%	0	0	0%		0	0	100% b
SF1	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%		0	0	100% b
SF1	4.9800	Revenues	0	100%	0	0	0%		0	0	100% b
Appropriations Total:			0	100%	0	0	100%		0	0	100%
Revenue Total:			1,994,123	100%	1,994,075	-48	0%		1,994,123	48	0%
Expense											
Fire Protection											
SF1	5.3410.400	Fire Protection - Contractual	1,994,075	100%	1,994,075	0	0%		1,994,075	0	0% b
Fire Protection Total:			1,994,075	100%	1,994,075	0	0%		1,994,075	0	0%
Appropriations											
SF1	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%		0	0	100% b
Appropriations Total:			0	100%	0	0	100%		0	0	100%
Expense Total:			1,994,075	100%	1,994,075	0	0%		1,994,075	0	0%
SF1 Fayetteville Fire Protection Total:			48		0	-48			48	48	

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
			1/1 -	2/28/2023	17%	Annual	Remaining	83%	Actual	Budget Var - %
SF2 Manlius Fire Protection										
Revenue										
Real Property Tax										
SF2	4.1001	Real Property Taxes	1,582,472	100%	1,582,417	-55	0%	1,582,472	55	0% a
Real Property Tax Total:			1,582,472	100%	1,582,417	-55	0%	1,582,472	55	0%
Use of Money and Property										
SF2	4.2401	Interest & Earnings	34	100%	0	-34	0%	34	34	100% a
Use of Money and Property Total:			34	100%	0	-34	100%	34	34	100%
Appropriations										
SF2	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
SF2	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SF2	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			1,582,506	100%	1,582,417	-89	0%	1,582,506	89	0%
Expense										
Fire Protection										
SF2	5.3410.400	Fire Protection - Contractual	1,582,417	100%	1,582,417	0	0%	1,582,417	0	0% b
Fire Protection Total:			1,582,417	100%	1,582,417	0	0%	1,582,417	0	0%
Appropriations										
SF2	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			1,582,417	100%	1,582,417	0	0%	1,582,417	0	0%
SF2 Manlius Fire Protection Total:			89		0	-89		89	89	

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Budget Report - Fund Detail

				YTD Actual		Budget		Projected Year End			
				1/1 -	2/28/2023	17%	Annual	Remaining	83%	Actual	Budget Var - %
SF3 Minoa Fire Protection											
Revenue											
Real Property Tax											
SF3	4.1001	Real Property Taxes	1,241,734	100%	1,241,693	-41	0%	1,241,734	41	0% a	
Real Property Tax Total:			1,241,734	100%	1,241,693	-41	0%	1,241,734	41	0%	
Use of Money and Property											
SF3	4.2401	Interest & Earnings	5	100%	0	-5	0%	5	5	100% a	
Use of Money and Property Total:			5	100%	0	-5	100%	5	5	100%	
Appropriations											
SF3	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b	
SF3	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b	
SF3	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b	
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Revenue Total:			1,241,739	100%	1,241,693	-46	0%	1,241,739	46	0%	
Expense											
Fire Protection											
SF3	5.3410.400	Fire Protection - Contractual	1,241,693	100%	1,241,693	0	0%	1,241,693	0	0% b	
Fire Protection Total:			1,241,693	100%	1,241,693	0	0%	1,241,693	0	0%	
Appropriations											
SF3	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b	
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Expense Total:			1,241,693	100%	1,241,693	0	0%	1,241,693	0	0%	
SF3 Minoa Fire Protection Total:			46		0	-46		46	46		

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Town of Manlius

Budget Report - Fund Detail

		YTD Actual			Budget			Projected Year End		
1/1 -		2/28/2023	17%		Annual	Remaining	83%	Actual	Budget Var -	%
SF4 Kirkville Fire Protection										
Revenue										
Real Property Tax										
SF4	4.1001	Property Taxes	238,815	100%	238,807	-8	0%	238,815	8	0% a
Real Property Tax Total:			238,815	100%	238,807	-8	0%	238,815	8	0%
Use of Money and Property										
SF4	4.2401	Earned Interest	0	100%	0	0	0%	0	0	100% b
Use of Money and Property Total:			0	100%	0	0	100%	0	0	100%
Appropriations										
SF4	4.9602	Budgetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			238,815	100%	238,807	-8	0%	238,815	8	0%
Expense										
Fire Protection										
SF4	5.3410.400	Kirkville Fire - Contractual	238,807	100%	238,807	0	0%	238,807	0	0% b
Fire Protection Total:			238,807	100%	238,807	0	0%	238,807	0	0%
Appropriations										
SF4	5.9602	Budgetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			238,807	100%	238,807	0	0%	238,807	0	0%
Asset										
Appropriations										
SF4	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
SF4	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Asset Total:			0	100%	0	0	100%	0	0	100%
SF4 Kirkville Fire Protection Total:			8		0	-8		8	8	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

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Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
1/1 - 2/28/2023 17%			Annual	Remaining	83%	Actual	Budget Var - %			
SL1 Overhead Lighting										
Revenue										
Real Property Tax										
SL1	4.1001	Real Property Taxes	25,010	100%	25,000	-10	0%	25,010	10	0% a
Real Property Tax Total:			25,010	100%	25,000	-10	0%	25,010	10	0%
Use of Money and Property										
SL1	4.2401	Interest & Earnings	67	100%	0	-67	0%	67	67	100% a
Use of Money and Property Total:			67	100%	0	-67	100%	67	67	100%
Appropriations										
SL1	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
SL1	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SL1	4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100% b
SL1	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			25,077	100%	25,000	-77	0%	25,077	77	0%
Expense										
Street Lighting										
SL1	5.5182.400	Street Lighting - Contractual	3,624	14%	25,000	21,376	86%	25,000	0	0% b
Street Lighting Total:			3,624	14%	25,000	21,376	86%	25,000	0	0%
Appropriations										
SL1	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			3,624	14%	25,000	21,376	86%	25,000	0	0%
SL1 Overhead Lighting Total:			21,453		0	-21,453		77	77	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End			
1/1 - 2/28/2023 17%			Annual	Remaining	83%	Actual	Budget Var - %				
SL2 Underground Lighting											
Revenue											
Real Property Tax											
SL2	4.1001	Real Property Taxes	33,004	100%	33,000	-4	0%	33,004	4	0%	a
Real Property Tax Total:			33,004	100%	33,000	-4	0%	33,004	4	0%	
Use of Money and Property											
SL2	4.2401	Interest & Earnings	12	100%	0	-12	0%	12	12	100%	a
Use of Money and Property Total:			12	100%	0	-12	100%	12	12	100%	
Appropriations											
SL2	4.9600	Appropriations	0	100%	0	0	0%	0	0	100%	b
SL2	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100%	b
SL2	4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100%	b
SL2	4.9800	Revenues	0	100%	0	0	0%	0	0	100%	b
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Revenue Total:			33,016	100%	33,000	-16	0%	33,016	16	0%	
Expense											
Street Lighting											
SL2	5.5182.400	Street Lighting - Contractual	4,955	15%	33,000	28,045	85%	33,000	0	0%	b
Street Lighting Total:			4,955	15%	33,000	28,045	85%	33,000	0	0%	
Appropriations											
SL2	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100%	b
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Expense Total:			4,955	15%	33,000	28,045	85%	33,000	0	0%	
SL2 Underground Lighting Total:			28,061		0	-28,061		16	16		

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
			1/1 -	2/28/2023	17%	Annual	Remaining	83%	Actual	Budget Var - %
SL3 Entry Lighting										
Revenue										
Real Property Tax										
SL3	4.1001	Real Property Taxes	1,704	100%	1,700	-4	0%	1,704	4	0% a
Real Property Tax Total:			1,704	100%	1,700	-4	0%	1,704	4	0%
Use of Money and Property										
SL3	4.2401	Interest & Earnings	16	100%	0	-16	0%	16	16	100% a
Use of Money and Property Total:			16	100%	0	-16	100%	16	16	100%
Appropriations										
SL3	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
SL3	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SL3	4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100% b
SL3	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			1,720	101%	1,700	-20	-1%	1,720	20	1%
Expense										
Street Lighting										
SL3	5.5182.400	Street Lighting - Contractual	240	14%	1,700	1,460	86%	1,700	0	0% b
Street Lighting Total:			240	14%	1,700	1,460	86%	1,700	0	0%
Appropriations										
SL3	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			240	14%	1,700	1,460	86%	1,700	0	0%
SL3 Entry Lighting Total:			1,480		0	-1,480		20	20	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End				
1/1 - 2/28/2023 17%			Annual			Remaining		83%	Actual		Budget Var - %	
SL4 Garden Park Lighting												
Revenue												
Real Property Tax												
SL4	4.1001	Real Property Taxes	10,001	100%	10,000	-1	0%	10,001	1	0%	a	
Real Property Tax Total:			10,001	100%	10,000	-1	0%	10,001	1	0%		
Use of Money and Property												
SL4	4.2401	Interest & Earnings	2	100%	0	-2	0%	2	2	100%	a	
Use of Money and Property Total:			2	100%	0	-2	100%	2	2	100%		
Appropriations												
SL4	4.9600	Appropriations	0	100%	0	0	0%	0	0	100%	b	
SL4	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100%	b	
SL4	4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100%	b	
SL4	4.9800	Revenues	0	100%	0	0	0%	0	0	100%	b	
Appropriations Total:			0	100%	0	0	100%	0	0	100%		
Revenue Total:			10,003	100%	10,000	-3	0%	10,003	3	0%		
Expense												
Street Lighting												
SL4	5.5182.400	Street Lighting - Contractual	1,410	14%	10,000	8,590	86%	10,000	0	0%	b	
Street Lighting Total:			1,410	14%	10,000	8,590	86%	10,000	0	0%		
Appropriations												
SL4	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100%	b	
Appropriations Total:			0	100%	0	0	100%	0	0	100%		
Expense Total:			1,410	14%	10,000	8,590	86%	10,000	0	0%		
SL4 Garden Park Lighting Total:			8,593		0	-8,593		3	3			

Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
1/1 - 2/28/2023 17%			Annual	Remaining	83%	Actual	Budget Var - %			
SL5 Ratnour Bridge Lighting										
Revenue										
Real Property Tax										
SL5	4.1001	Real Property Taxes	37,012	100%	37,000	-12	0%	37,012	12	0% a
Real Property Tax Total:			37,012	100%	37,000	-12	0%	37,012	12	0%
Use of Money and Property										
SL5	4.2401	Interest & Earnings	25	100%	0	-25	0%	25	25	100% a
Use of Money and Property Total:			25	100%	0	-25	100%	25	25	100%
Appropriations										
SL5	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
SL5	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SL5	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			37,037	100%	37,000	-37	0%	37,037	37	0%
Expense										
Street Lighting										
SL5	5.5182.400	Street Lighting - Contractual	5,453	15%	37,000	31,547	85%	37,000	0	0% b
Street Lighting Total:			5,453	15%	37,000	31,547	85%	37,000	0	0%
Appropriations										
SL5	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			5,453	15%	37,000	31,547	85%	37,000	0	0%
SL5 Ratnour Bridge Lighting Total:			31,584		0	-31,584		37	37	

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Town of Manlius

Budget Report - Fund Detail

		YTD Actual			Budget			Projected Year End		
		1/1 -	2/28/2023	17%	Annual	Remaining	83%	Actual	Budget Var - %	
SR1 Manlius Trash Dist										
Revenue										
Real Property Tax										
SR1	4.1001	Real Property Taxes	2,490,445	100%	2,487,651	-2,794	0%	2,490,445	2,794	0% a
Real Property Tax Total:			2,490,445	100%	2,487,651	-2,794	0%	2,490,445	2,794	0%
Use of Money and Property										
SR1	4.2401	Interest & Earnings	885	100%	0	-885	0%	885	885	100% a
Use of Money and Property Total:			885	100%	0	-885	100%	885	885	100%
Appropriations										
SR1	4.9600	Appropriations Fund Balance	0	100%	0	0	0%	0	0	100% b
SR1	4.9602	Budgetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SR1	4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100% b
SR1	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			2,491,330	100%	2,487,651	-3,679	0%	2,491,330	3,679	0%
Expense										
Refuse										
SR1	5.8160.100	Refuse - Personal Services	0	0%	11,268	11,268	100%	11,268	0	0% b
SR1	5.8160.400	Refuse - Contractual	411,163	17%	2,472,726	2,061,563	83%	2,472,726	0	0% b
Refuse Total:			411,163	17%	2,483,994	2,072,831	83%	2,483,994	0	0%
Employee Benefits - NYS Retirement										
SR1	5.9010.800	NYS Retirement	0	100%	0	0	0%	0	0	100% b
Employee Benefits - NYS Retirement Total:			0	100%	0	0	100%	0	0	100%
Employee Benefits - Health Ins										
SR1	5.9060.800	Hospital & Medical Insurance	372	13%	2,795	2,423	87%	2,795	0	0% b
Employee Benefits - Health Ins Total:			372	13%	2,795	2,423	87%	2,795	0	0%
Employee Benefits - FICA										
SR1	5.9030.800	FICA	0	0%	862	862	100%	862	0	0% b
Employee Benefits - FICA Total:			0	0%	862	862	100%	862	0	0%
Appropriations										
SR1	5.9602	Budgetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			411,535	17%	2,487,651	2,076,116	83%	2,487,651	0	0%
SR1 Manlius Trash Dist Total:			2,079,795		0	-2,079,795		3,679	3,679	

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
			1/1 -	2/28/2023	17%	Annual	Remaining	83%	Actual	Budget Var - %
SR2 Manlius Brush Dist										
Revenue										
Real Property Tax										
SR2	4.1001	Real Property Taxes	317,432	100%	317,362	-70	0%	317,432	70	0% a
Real Property Tax Total:			317,432	100%	317,362	-70	0%	317,432	70	0%
Use of Money and Property										
SR2	4.2401	Interest & Earnings	59	100%	0	-59	0%	59	59	100% a
Use of Money and Property Total:			59	100%	0	-59	100%	59	59	100%
Appropriations										
SR2	4.9600	Appropriations Fund Balance	0	100%	0	0	0%	0	0	100% b
SR2	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SR2	4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100% b
SR2	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			317,491	100%	317,362	-129	0%	317,491	129	0%
Expense										
Refuse										
SR2	5.8160.100	Refuse - Personal Services	0	0%	11,268	11,268	100%	11,268	0	0% b
SR2	5.8160.400	Refuse - Contractual	50,375	17%	302,438	252,063	83%	302,438	0	0% b
Refuse Total:			50,375	16%	313,706	263,331	84%	313,706	0	0%
Employee Benefits - NYS Retirement										
SR2	5.9010.800	NYS Retirement	0	100%	0	0	0%	0	0	100% b
Employee Benefits - NYS Retirement Total:			0	100%	0	0	100%	0	0	100%
Employee Benefits - Health Ins										
SR2	5.9060.800	Hospital & Medical Insurance	372	13%	2,795	2,423	87%	2,795	0	0% b
Employee Benefits - Health Ins Total:			372	13%	2,795	2,423	87%	2,795	0	0%
Employee Benefits - FICA										
SR2	5.9030.800	FICA	0	0%	862	862	100%	862	0	0% b
Employee Benefits - FICA Total:			0	0%	862	862	100%	862	0	0%
Appropriations										
SR2	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			50,747	16%	317,363	266,616	84%	317,363	0	0%
SR2 Manlius Brush Dist Total:			266,744		-1	-266,745		128	129	

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
			1/1 -	2/28/2023	17%	Annual	Remaining	83%	Actual	Budget Var - %
SS1 Manlius Sewer Dist										
Revenue										
Real Property Tax										
SS1	4.1001	Real Property Taxes	0	100%	0	0	0%	0	0	100% b
Real Property Tax Total:			0	100%	0	0	100%	0	0	100%
Intergovernmental Charges										
SS1	4.2374	Transportation T/Dewitt	0	100%	0	0	0%	0	0	100% b
Intergovernmental Charges Total:			0	100%	0	0	100%	0	0	100%
Use of Money and Property										
SS1	4.2401	Interest & Earnings	624	100%	0	-624	0%	624	624	100% a
Use of Money and Property Total:			624	100%	0	-624	100%	624	624	100%
Appropriations										
SS1	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
SS1	4.9602	Budgetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SS1	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			624	100%	0	-624	100%	624	624	100%
Expense										
Sewer										
SS1	5.8110.400	Sewer Administration	0	100%	0	0	0%	0	0	100% b
SS1	5.8120.400	Sanitary Sewers - O&M	0	100%	0	0	0%	0	0	100% b
SS1	5.8130.400	Sewage Trtmt & Disp - County	0	100%	0	0	0%	0	0	100% b
Sewer Total:			0	100%	0	0	100%	0	0	100%
Appropriations										
SS1	5.9602	Budgetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	100%	0	0	100%	0	0	100%
SS1 Manlius Sewer Dist Total:			624		0	-624		624	624	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
1/1 - 2/28/2023 17%			Annual	Remaining	83%	Actual	Budget Var - %			
SS2 Thompson Sewer Dist										
Revenue										
Real Property Tax										
SS2	4.1001	Real Property Taxes	18,460	100%	18,460	0	0%	18,460	0	0% b
Real Property Tax Total:			18,460	100%	18,460	0	0%	18,460	0	0%
Home and Comm Svc										
SS2	4.2120	Sewer Rents	0	100%	0	0	0%	0	0	100% b
Home and Comm Svc Total:			0	100%	0	0	100%	0	0	100%
Use of Money and Property										
SS2	4.2401	Interest & Earnings	13	100%	0	-13	0%	13	13	100% a
Use of Money and Property Total:			13	100%	0	-13	100%	13	13	100%
Appropriations										
SS2	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
SS2	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SS2	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			18,473	100%	18,460	-13	0%	18,473	13	0%
Expense										
BANs										
SS2	5.9710.600	Serial Bonds - Principal	0	0%	15,000	15,000	100%	15,000	0	0% b
SS2	5.9710.700	Serial Bonds - Interest	0	0%	3,460	3,460	100%	3,460	0	0% b
BANs Total:			0	0%	18,460	18,460	100%	18,460	0	0%
Appropriations										
SS2	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	0%	18,460	18,460	100%	18,460	0	0%
SS2 Thompson Sewer Dist Total:			18,473		0	-18,473		13	13	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
1/1 - 2/28/2023 17%					Annual	Remaining	83%	Actual	Budget Var - %	
SS3 Megnin Farms Sewer										
Revenue										
Real Property Tax										
SS3	4.1001	Real Property Taxes	71,996	100%	0	-71,996	0%	71,996	71,996	100% a
Real Property Tax Total:			71,996	100%	0	-71,996	100%	71,996	71,996	100%
Use of Money and Property										
SS3	4.2401	Interest & Earnings	3	100%	0	-3	0%	3	3	100% a
Use of Money and Property Total:			3	100%	0	-3	100%	3	3	100%
Revenue Total:			71,999	100%	0	-71,999	100%	71,999	71,999	100%
Expense										
Sewer										
SS3	5.8110.400	Sewer Administration	71,996	100%	0	-71,996	0%	71,996	71,996	100% a
Sewer Total:			71,996	100%	0	-71,996	100%	71,996	71,996	100%
Expense Total:			71,996	100%	0	-71,996	100%	71,996	71,996	100%
SS3 Megnin Farms Sewer Total:			3		0	-3		3	3	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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a = Actual YTD; b = Annual budget; p = Projected amount

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Budget Report - Fund Detail

		YTD Actual		Budget			Projected Year End		
1/1 - 2/28/2023		17%	Annual	Remaining	83%		Actual	Budget Var - %	
SW1 Manlius Con Water Supply									
Revenue									
Real Property Tax									
SW1 4.1001	Real Property Taxes	1,030	100%	0	-1,030	0%	1,030	1,030	100% a
Real Property Tax Total:		1,030	100%	0	-1,030	100%	1,030	1,030	100%
Use of Money and Property									
SW1 4.2401	Interest & Earnings	44	100%	0	-44	0%	44	44	100% a
Use of Money and Property Total:		44	100%	0	-44	100%	44	44	100%
Miscellaneous Revenue									
SW1 4.2701	Refund of Prior Year Expendtrs	0	100%	0	0	0%	0	0	100% b
Miscellaneous Revenue Total:		0	100%	0	0	100%	0	0	100%
Appropriations									
SW1 4.9600	Appropriations Fund Balance	0	100%	0	0	0%	0	0	100% b
SW1 4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SW1 4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100% b
SW1 4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:		0	100%	0	0	100%	0	0	100%
Revenue Total:		1,074	100%	0	-1,074	100%	1,074	1,074	100%
Expense									
Water Admin									
SW1 5.8310.400	Water Admin - Contractual	0	100%	0	0	0%	0	0	100% b
Water Admin Total:		0	100%	0	0	100%	0	0	100%
Water Trans-Distrib									
SW1 5.8340.400	Trans/Dist - Contractual	0	100%	0	0	0%	0	0	100% b
Water Trans-Distrib Total:		0	100%	0	0	100%	0	0	100%
Appropriations									
SW1 5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:		0	100%	0	0	100%	0	0	100%
Expense Total:		0	100%	0	0	100%	0	0	100%
SW1 Manlius Con Water Supply Total:		1,074		0	-1,074		1,074	1,074	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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Budget Report - Fund Detail

		YTD Actual		Budget			Projected Year End			
1/1 -		2/28/2023	17%	Annual	Remaining	83%	Actual	Budget Var - %		
SW2 Manlius Con Water Dist										
Revenue										
Real Property Tax										
SW2	4.1001	Real Property Taxes	60,991	100%	0	-60,991	0%	60,991	60,991	100% a
Real Property Tax Total:			60,991	100%	0	-60,991	100%	60,991	60,991	100%
Intergovernmental Charges										
SW2	4.2378	T/CICERO Lease	0	100%	0	0	0%	0	0	100% b
Intergovernmental Charges Total:			0	100%	0	0	100%	0	0	100%
Use of Money and Property										
SW2	4.2401	Interest & Earnings	35	100%	0	-35	0%	35	35	100% a
Use of Money and Property Total:			35	100%	0	-35	100%	35	35	100%
Miscellaneous Revenue										
SW2	4.2701	Refund of Prior Year Expendtrs	0	100%	0	0	0%	0	0	100% b
Miscellaneous Revenue Total:			0	100%	0	0	100%	0	0	100%
Appropriations										
SW2	4.9600	Appropriations Fund Balance	0	100%	0	0	0%	0	0	100% b
SW2	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SW2	4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100% b
SW2	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			61,026	100%	0	-61,026	100%	61,026	61,026	100%
Expense										
Water Admin										
SW2	5.8310.400	Water Admin - Contractual	0	100%	0	0	0%	0	0	100% b
Water Admin Total:			0	100%	0	0	100%	0	0	100%
Water Trans-Distrib										
SW2	5.8340.400	Trans/Dist - Contractual	0	100%	0	0	0%	0	0	100% b
Water Trans-Distrib Total:			0	100%	0	0	100%	0	0	100%
Appropriations										
SW2	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	100%	0	0	100%	0	0	100%
SW2 Manlius Con Water Dist Total:			61,026		0	-61,026		61,026	61,026	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

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Budget Report - Fund Detail

		YTD Actual		Budget			Projected Year End		
1/1 - 2/28/2023		17%	Annual	Remaining	83%		Actual	Budget Var - %	
SW3 Skyridge Water Dist									
Revenue									
Real Property Tax									
SW3 4.1001	Real Property Taxes	11,173	100%	0	-11,173	0%	11,173	11,173	100% a
Real Property Tax Total:		11,173	100%	0	-11,173	100%	11,173	11,173	100%
Use of Money and Property									
SW3 4.2401	Interest & Earnings	151	100%	0	-151	0%	151	151	100% a
Use of Money and Property Total:		151	100%	0	-151	100%	151	151	100%
Miscellaneous Revenue									
SW3 4.2701	Refund of Prior Year Expendtrs	0	100%	0	0	0%	0	0	100% b
Miscellaneous Revenue Total:		0	100%	0	0	100%	0	0	100%
Appropriations									
SW3 4.9600	Appropriations Fund Balance	0	100%	0	0	0%	0	0	100% b
SW3 4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
SW3 4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100% b
SW3 4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:		0	100%	0	0	100%	0	0	100%
Revenue Total:		11,324	100%	0	-11,324	100%	11,324	11,324	100%
Expense									
Water Admin									
SW3 5.8310.400	Water Admin - Contractual	0	100%	0	0	0%	0	0	100% b
Water Admin Total:		0	100%	0	0	100%	0	0	100%
Water Trans-Distrib									
SW3 5.8340.400	Trans/Dist - Contractual	0	100%	0	0	0%	0	0	100% b
Water Trans-Distrib Total:		0	100%	0	0	100%	0	0	100%
Appropriations									
SW3 5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:		0	100%	0	0	100%	0	0	100%
Expense Total:		0	100%	0	0	100%	0	0	100%
SW3 Skyridge Water Dist Total:		11,324		0	-11,324		11,324	11,324	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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a = Actual YTD; b = Annual budget; p = Projected amount

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Budget Report - Fund Detail

		YTD Actual			Budget			Projected Year End		
		1/1 -	2/28/2023	17%	Annual	Remaining	83%	Actual	Budget Var -	%
SW4 Highbridge Water Dist										
Revenue										
Real Property Tax										
SW4	4.1001	Real Property Taxes	3,096	100%	0	-3,096	0%	3,096	3,096	100% a
Real Property Tax Total:			3,096	100%	0	-3,096	100%	3,096	3,096	100%
Use of Money and Property										
SW4	4.2401	Interest & Earnings	0	100%	0	0	0%	0	0	100% b
Use of Money and Property Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			3,096	100%	0	-3,096	100%	3,096	3,096	100%
Expense										
Water Trans-Distrib										
SW4	5.8340.400	Trans/Dist - Contractual	0	100%	0	0	0%	0	0	100% b
Water Trans-Distrib Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	100%	0	0	100%	0	0	100%
SW4 Highbridge Water Dist Total:			3,096		0	-3,096		3,096	3,096	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

		YTD Actual			Budget			Projected Year End		
		1/1 -	2/28/2023	17%	Annual	Remaining	83%	Actual	Budget Var -	%
TA1 Trust and Agency 1										
Revenue										
Use of Money and Property										
TA1	4.2401	Interest Earnings	270	100%	0	-270	0%	270	270	100% a
Use of Money and Property Total:			270	100%	0	-270	100%	270	270	100%
Appropriations										
TA1	4.9602	Budgetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			270	100%	0	-270	100%	270	270	100%
Expense										
Appropriations										
TA1	5.9602	Budgetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	100%	0	0	100%	0	0	100%
TA1 Trust and Agency 1 Total:			270		0	-270		270	270	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End		
1/1 - 2/28/2023 17%			Annual	Remaining	83%	Actual	Budget Var - %			
TA2 Trust and Agency 2										
Revenue										
Use of Money and Property										
TA2	4.2401	Earned Interest	878	100%	0	-878	0%	878	878	100% a
Use of Money and Property Total:			878	100%	0	-878	100%	878	878	100%
Appropriations										
TA2	4.9602	Budgetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			878	100%	0	-878	100%	878	878	100%
Expense										
Appropriations										
TA2	5.9602	Budgetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	100%	0	0	100%	0	0	100%
TA2 Trust and Agency 2 Total:			878		0	-878		878	878	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End			
1/1 -			2/28/2023	17%	Annual	Remaining	83%	Actual	Budget Var - %		
W Debt											
Revenue											
Appropriations											
W	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b	
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Revenue Total:			0	100%	0	0	100%	0	0	100%	
Expense											
Appropriations											
W	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b	
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Expense Total:			0	100%	0	0	100%	0	0	100%	
W Debt Total:			0		0	0		0	0		

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

m = YTD Monthly average projected to 12 months.

a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

		YTD Actual			Budget			Projected Year End		
		1/1 -	2/28/2023	17%	Annual	Remaining	83%	Actual	Budget Var -	%
W80 Schepp Water Dist										
Revenue										
Real Property Tax										
W80	4.1001	Real Property Taxes	84	100%	0	-84	0%	84	84	100% a
Real Property Tax Total:			84	100%	0	-84	100%	84	84	100%
Use of Money and Property										
W80	4.2401	Interest & Earnings	4	100%	0	-4	0%	4	4	100% a
Use of Money and Property Total:			4	100%	0	-4	100%	4	4	100%
Appropriations										
W80	4.9600	Appropriations	0	100%	0	0	0%	0	0	100% b
W80	4.9602	Budgetary Prov for Other Uses	0	100%	0	0	0%	0	0	100% b
W80	4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100% b
W80	4.9800	Revenues	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Revenue Total:			88	100%	0	-88	100%	88	88	100%
Expense										
Water Admin										
W80	5.8310.400	Water Admin - Contractual	0	100%	0	0	0%	0	0	100% b
Water Admin Total:			0	100%	0	0	100%	0	0	100%
Water Trans-Distrib										
W80	5.8340.400	Trans/Dist - Contractual	0	100%	0	0	0%	0	0	100% b
Water Trans-Distrib Total:			0	100%	0	0	100%	0	0	100%
Appropriations										
W80	5.9602	Budgetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100% b
Appropriations Total:			0	100%	0	0	100%	0	0	100%
Expense Total:			0	100%	0	0	100%	0	0	100%
W80 Schepp Water Dist Total:			88		0	-88		88	88	

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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a = Actual YTD; b = Annual budget; p = Projected amount

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Town of Manlius

Budget Report - Fund Detail

			YTD Actual		Budget			Projected Year End			
1/1 - 2/28/2023 17%					Annual	Remaining	83%	Actual	Budget Var - %		
W90 Watervale Water Dist											
Revenue											
Real Property Tax											
W90	4.1001	Real Property Taxes	75	100%	0	-75	0%	75	75	100%	a
Real Property Tax Total:			75	100%	0	-75	100%	75	75	100%	
Use of Money and Property											
W90	4.2401	Interest & Earnings	16	100%	0	-16	0%	16	16	100%	a
Use of Money and Property Total:			16	100%	0	-16	100%	16	16	100%	
Appropriations											
W90	4.9600	Appropriations	0	100%	0	0	0%	0	0	100%	b
W90	4.9602	Bugetary Prov for Other Uses	0	100%	0	0	0%	0	0	100%	b
W90	4.9620	Budget Provisions - Other Uses	0	100%	0	0	0%	0	0	100%	b
W90	4.9800	Revenues	0	100%	0	0	0%	0	0	100%	b
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Revenue Total:			91	100%	0	-91	100%	91	91	100%	
Expense											
Water Admin											
W90	5.8310.400	Water Admin - Contractual	0	100%	0	0	0%	0	0	100%	b
Water Admin Total:			0	100%	0	0	100%	0	0	100%	
Water Trans-Distrib											
W90	5.8340.400	Trans/Dist - Contractual	0	100%	0	0	0%	0	0	100%	b
Water Trans-Distrib Total:			0	100%	0	0	100%	0	0	100%	
BANs											
W90	5.9730.600	BAN - Principal	0	100%	0	0	0%	0	0	100%	b
W90	5.9730.700	BAN - Interest	0	100%	0	0	0%	0	0	100%	b
BANs Total:			0	100%	0	0	100%	0	0	100%	
Appropriations											
W90	5.9602	Bugetary Prov - Fund Balance	0	100%	0	0	0%	0	0	100%	b
Appropriations Total:			0	100%	0	0	100%	0	0	100%	
Expense Total:			0	100%	0	0	100%	0	0	100%	
W90 Watervale Water Dist Total:			91		0	-91		91	91		

Projection Methods: w = YTD Weekly average projected to 52 week; 2 = YTD Bi-weekly avg projected to 26 periods.

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