



VERNON TOWNSHIP COUNCIL MEETING AGENDA

7:00 PM REGULAR SESSION (OPEN TO THE PUBLIC)

SEPTEMBER 8, 2025

1. CALL TO ORDER

2. STATEMENT: Adequate Notice of this Regular Meeting was provided to the public and the press on January 19, 2025 and was posted at the Municipal Building in accordance with the Open Public Meetings Act, N.J.S.A.10:4-7.

3. SALUTE THE FLAG

4. ROLL CALL

5. MAYOR COMMENTS

6. ITEM FOR DISCUSSION

Hotel Room Fees

7. PUBLIC COMMENT (For Current Agenda Items Only, Limited to 3 Minutes Per Person)

8. REVIEW OF BILLS LIST

9. APPROVAL OF MINUTES

August 11, 2025 – Regular Meeting

10. CONSENT AGENDA

Resolution #25-205: Resolution Authorizing the Purchase of ALTEC AT40G 4x4 Bucket Truck and Accessories Through Sourcewell National Cooperative 040924-ALT Global Rental Inc.

Resolution #25-216: Authorizing Change Order #1 of Contract for Proposed Athletic Field Lighting at Veteran's Memorial Park within Vernon Township with Quality Electrical Construction

Resolution #25-217: Resolution Accepting the Completion of Field Lighting Project at Veteran's Memorial Park within Vernon Township

Agenda September 8, 2025

Resolution #25-218: Authorizing Change Order #1 and Change Order #2 of Contract for Proposed Improvements of Sand Hill Road with Vernon Township with Schifano Construction Corp.

Resolution #25-219: Resolution Accepting the Completion of Road Improvements Project to Sand Hill Road within Vernon Township

Resolution #25-220: Authorizing Change Order #2 of Contract for Proposed Improvements to Glenwood Mountain Road with Riverview Paving, Inc.

Resolution #25-221: Resolution Accepting the Completion of Road Improvements Project to Glenwood Mountain Road-Section II within Vernon Township

Resolution #25-222: Authorize Union County Cooperative Pricing Agreement

Resolution #25-223: Authorize the Award of a Required Disclosure Contract with Otis Elevator for Elevator Maintenance and Repair

Resolution #25-224: Resolution Authorizing Purchase of Pierce Enforcer Pumper Fire Fighting Equipment Through Sourcewell National Cooperative #1 13021-OKC Through Fire & Safety Services Inc.

Resolution #25-225: Approving a Charitable Solicitor's Permit: McAfee Vol. Fire Department

Resolution #25-226: Resolution Accepting and Approving Submittal of the Township Water Use and Conservation Management Plan to the New Jersey Highlands Water Protection and Planning Council as a Completed Task Toward Conformance with the Highlands Regional Master Plan

Resolution #25-227: Resolution of the Township of Vernon, County of Sussex, State of New Jersey, Authorizing the Disposition or Salvage of Obsolete Equipment in the Possession of the Township at Auction on Govdeals.com

Resolution #25-228: Authorizing the Application for New Jersey Department of Community Affairs Recreational Opportunities for Individuals with Disabilities Grant

Resolution #25-229: Authorize the Award of a Required Disclosure Contract with Mobile Container Service for Recycling Container Repair

Resolution #25-230: Authorizing Contracts with Certain Approved State Contract Vendors Firefighter One for Purchase of Volunteer Fire Department Turnout Gear

Resolution #25-231: Refund Overpayment (Block 387 Lot 5 – Corelogic)

Resolution #25-232: Refund Overpayment (Block 387 Lot 5 – Corelogic)

Resolution #25-233: Refund Overpayment (Block 9 Lot 5 – Sarvahjetaa LLC)

Resolution #25-234: (Block 156 Lot 45) Cancelling Taxes for Total Disabled Veteran

Resolution #25-235: (Block 156 Lot 45) Cancelling Taxes for Total Disabled Veteran

Resolution #25-236: Refund for Totally Disabled Veteran (Block 156 Lot 45)

Resolution #25-237: Refund for Totally Disabled Veteran (Block 382 Lot 17)

Resolution #25-238: Refund for Totally Disabled Veteran (Block 382 Lot 17)

Resolution #25-239: (Block 382 Lot 17) Cancelling Taxes for Total Disabled Veteran

Resolution #25-240: (Block 382 Lot 17) Cancelling Taxes for Total Disabled Veteran

Resolution #25-241: Refund for Totally Disabled Veteran (Block 418 Lot 8) - Redacted

Resolution #25-242: Refund for Totally Disabled Veteran (Block 418 Lot 8) - Redacted

Resolution #25-243: (Block 418 Lot 8) - Redacted Cancelling Taxes for Total Disabled Veteran

Resolution #25-244: (Block 418 Lot 8) - Redacted Cancelling Taxes for Total Disabled Veteran

Resolution #25-245: Refund for Totally Disabled Veteran (Block 560 Lot 4) - Redacted

Resolution #25-246: (Block 560 Lot 4) - Redacted Cancelling Taxes for Total Disabled Veteran

Resolution #25-247: (Block 560 Lot 4) - Redacted Cancelling Taxes for Total Disabled Veteran

Resolution #25-248: Refund for Totally Disabled Veteran (Block 581 Lot 32)

Resolution #25-249: (Block 581 Lot 32) Cancelling Taxes for Total Disabled Veteran

Resolution #25-250: (Block 581 Lot 32) Cancelling Taxes for Total Disabled Veteran

Resolution #25-251: Refund for Totally Disabled Veteran (Block 581 Lot 32)

Resolution #25-252: Refund for Totally Disabled Veteran (Block 610 Lot 5)

Resolution #25-253: (Block 610 Lot 5) Cancelling Taxes for Total Disabled Veteran

Resolution #25-254: (Block 610 Lot 5) Cancelling Taxes for Total Disabled Veteran

Resolution #25-255: Resolution Authorizing Leasing of Certain Vehicles for the Fire Department through Sourcewell National Cooperative #060618-EFM through Enterprise Fleet Management Services Inc. (Quote No. 9272442)

Resolution #25-256: Resolution Authorizing Leasing of Certain Vehicles for the Fire Department through Sourcewell National Cooperative #060618-EFM through Enterprise Fleet Management Services Inc. (Quote No. 9272437, 9272438, 9272439 and 9272440)

11. INTRODUCTION OF ORDINANCES

Ordinance #25-13: An Ordinance of the Township of Vernon Amending Chapter 250, Article II “Fees and Escrows Enumerated”, § 250-11, of the Revised General Ordinances of the Township of Vernon

12. PUBLIC HEARING/ADOPTION OF ORDINANCES

Ordinance #25-11: An Ordinance to Amend Chapter 5, Entitled, “Administration of Government” of the Code of the Township of Vernon, Sussex County, New Jersey

Ordinance #25-12: An Ordinance to Amend Chapter 250, Entitled, “Fees and Escrows” of the Code of the Township of Vernon, Sussex County, New Jersey

13. PUBLIC COMMENT (Limited to 5 Minutes On Any Topic)

14. COUNCIL COMMENTS

15. COUNCIL PRESIDENT COMMENTS

16. ADJOURNMENT

TOWNSHIP OF VERNON

RESOLUTION #25-205

**RESOLUTION AUTHORIZING THE PURCHASE OF ALTEC AT40G
4x4 BUCKET TRUCK AND ACCESSORIES THROUGH
SOURCEWELL NATIONAL COOPERATIVE 040924-ALT GLOBAL
RENTAL INC.**

BE IT RESOLVED, by the Council of the Township of Vernon, Sussex County, State of New Jersey as follows:

WHEREAS, in accordance with the requirements of the Local Public Contract Law P.L. 2011, C.139 (the "Law" or "Chapter 139" and N.J.S.A.52:34-6.2 the regulations promulgated there under in Local Finance Notice LFN 2012-10, the following purchase without competitive bids from vendor with a Sourcewell National Cooperative is hereby approved for municipalities, and;

WHEREAS, the Township of Vernon has the need to procure certain bucket truck vehicles and accessories in accord with the Local Publics Contract Law N.J.S.A. 40A:11-1 et. Seq., and;

WHEREAS, the Township of Vernon has previously acted in accord with New Jersey public procurement statutes and regulations as promulgated by formally joining a recognized and compliant national cooperative, being the Sourcewell National Cooperative, and;

WHEREAS, the regulations as set forth within Local Finance Notice LFN 2012-10 have been fully complied with, and;

WHEREAS the equipment and corresponding Sourcewell National Cooperative contract is 040924-ALT, through Global Rental Inc., distributor for Altec Inc; and

WHEREAS the quoted cost under the Sourcewell National Cooperative is contract \$182,816.00; and

WHEREAS, the Chief Financial Officer has determined, and certified available funds are available in the amount of \$182,816.00 from line item C-04-25-009 Various Improvement Bond Ordinance

NOW THEREFORE BE IT RESOLVED THAT, the Mayor is hereby authorized to effectuate the purchase of herein approved equipment through Global Rental Company, Altec, Inc., 342 Chestnut Ave., West Berlin, NJ 08091, for the approved cost of \$182,816.00 from Sourcewell contract 040924-ALT.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

TOWNSHIP OF VERNON

RESOLUTION #25-216

AUTHORIZING CHANGE ORDER #1 OF CONTRACT FOR PROPOSED ATHLETIC FIELD LIGHTING AT VETERAN'S MEMORIAL PARK WITHIN VERNON TOWNSHIP WITH QUALITY ELECTRICAL CONSTRUCTION

WHEREAS, on December 11, 2023, by way of adoption of Resolution #23-279, the Council of the Township of Vernon awarded a contract to Quality Electrical Construction for Field Lighting Installation at Veteran's Memorial Park which contract provided for an expenditure of \$258,400.00 and

WHEREAS, in a memo dated August 29, 2025, the Township Engineer states that the contract requires a Change Order #1 by the addition of one (1) item in amount of \$39,975.77; and

WHEREAS, the Township Engineer, in concurrence with the Mayor, recommends approving Change Order No. 1 resulting in an increase to final contract amount of \$308,555.40.

WHEREAS, the Certified Municipal Finance Officer of the Township of Vernon has certified that the funds for these contracts are available in Account #C-04-23-015-05.

NOW THEREFORE BE IT RESOLVED, by the Council of the Township of Vernon that it hereby approves the Township Engineer's recommendations and authorizes the Mayor to execute said Change Order No. 1 for said project resulting in the final contract amount of \$308,555.40 for said project; and

BE IT FURTHER RESOLVED that certified copies of this Resolution be forwarded to Quality Electrical Construction and the Township Engineer.

Certification of Funds
Account: C-04-3-015-05
Amount: \$39,975.77

CMFO Signature: _____

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						



HAROLD E. PELLOW & ASSOCIATES, INC.

CONSULTING ENGINEERS · PLANNERS · LAND SURVEYORS

ESTABLISHED 1969

HAROLD E. PELLOW, PRESIDENT
2022 Distinguished Engineering Service Award
from the NJ Society of Professional Engineers
NJ – P.E. & L.S., NJ – P.P., NJ – C.M.E.

ANN PELLOW WAGNER
NJ – C.L.A., VA – C.L.A., PA – C.L.A.
(5/28/84 – 7/27/89)

MATTHEW J. MORRIS
NJ – L.L.A., NJ – P.P.

DAVID B. SIMMONS, JR., VICE PRESIDENT
NJ – P.E. & L.S., NJ – P.P., NJ – C.M.E.
NY – P.E. & L.S., PA – P.E. & L.S.

THOMAS G. KNUTELSKY, ASSOCIATE
NJ – P.E., NJ – P.P.

CORY L. STONER, EXEC. VICE PRESIDENT
NJ – P.E., NJ – P.P., NJ – C.M.E.

August 28, 2025

VIA E-MAIL

MEMORANDUM TO: Mr. Anthony Rossi, Vernon Township Mayor

FROM: Cory L. Stoner, P.E., C.M.E., Township Engineer

SUBJECT: PAYMENT APPLICATION
Proposed Athletic Field Lighting at Veterans' Memorial Park
HPA No. 21-259

Dear Mayor:

Enclosed herewith please find the following paperwork for Quality Electrical Construction in regard to the above-referenced project:

1. Copy of Vernon Township Purchase Order No. 24-00774 Drawdown No. 1, in the amount of \$268,579.63, due Quality Electrical Construction.
2. Estimate Certificate No. 1 reflecting the final quantities for the project.
3. Copy of Change Order No. 1 which reflect an adjusted contract amount of \$308,555.40. Kindly have an authorized Township representative sign and date on the line indicated *Presiding Officer*. Retain one copy for your file and **return the remaining two copies to this office**. We will forward one copy to the Contractor and retain one copy for our records.
4. Copy of Quality Electrical Construction Payment Application #1

If there are any questions, please feel free to contact me.

Very truly yours,

Cory L. Stoner, P.E., C.M.E.
HAROLD E. PELLOW & ASSOCIATES, INC.
Vernon Township Engineer

CLS:cls
K:\PROJECTS\MUNICIPAL\VERNON\COUNCIL\21-259 - LIGHTING FOR ATHLETIC FIELD AT VETERANS' MEMORIAL PARK\ROSSI2.DOCX

cc: VIA E-MAIL
Marcy Gianattasio, Vernon Township Municipal Clerk
Donelle Bright, Vernon Township CFO

Township of Vernon
21 Church Street
Vernon, NJ 07462
Phone: (973)764-4055
Fax: (973)764-4799

SHIP TO

ADMINISTRATION
VERNON TOWNSHIP
21 CHURCH STREET
VERNON, NJ 07462

VENDOR

Vendor #: QUALI005

QUALITY ELECTRICAL CONST.
9 PLUM LANE
HOLMDEL, NJ 07733

Purchase Order

THIS NUMBER MUST APPEAR ON ALL INVOICES,
PACKING LISTS, CORRESPONDENCE, ETC.

NO. 24-00774

ORDER DATE: 05/30/24
DELIVERY DATE: 05/28/24
STATE CONTRACT: RES#23-279
F.O.B. TERMS:
VENDOR ACCT NUM:
VENDOR PHONE #:
VENDOR FAX #:
REQUISITION #: R2401252

PAYMENT RECORD


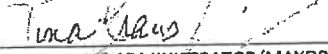
CHECK NO.

DATE PAID

NOTICE: TAX EXEMPT - TAX ID: 22-6002358


QUANTITY	DESCRIPTION	ACCOUNT NO	UNIT PRICE	TOTAL
1.00	Vet Mem Park Field Lighting Per Res# 23-279 Bid on 12-6-2023	C-04-23-015-05	258,400.0000	258,400.00
			TOTAL	=====
				258,400.00
	DRAWDOWN NO. 1 FOR WORK COMPLETED THROUGH 12/13/2024 AS SHOWN ON ESTIMATE CERTIFICATE NO. 1 (ATTACHED) ORIGINAL CONTRACT AMOUNT ADJUSTED CONTRACT AMOUNT BASED ON CHANGE ORDER NO. 1 WORK COMPLETED THROUGH 12/13/2024 LESS 5% RETAINAGE LESS PREVIOUS PAYMENTS AMOUNT DUE THIS DRAWDOWN		\$258,400.00 \$308,555.40 \$282,715.40 (\$ 14,135.77) \$ 0.00	\$268,579.63

APPROVED FOR PURCHASE


QUALIFIED PURCHASING AGENT

BUSINESS ADMINISTRATOR/MAYOR

APPROVAL FOR PAYMENT

I, having knowledge of the facts, certify that the materials and supplies have been received or the services rendered; said certification being based on signed delivery slips or other reasonable procedures.


DEPT. HEAD
8/20/25
DATE

CERTIFICATION OF FUNDS


CHIEF FINANCIAL OFFICER

VENDOR'S CERTIFICATION & DECLARATION

I do solemnly declare and certify under penalties of the law that the within bill is correct in all its particulars; that the articles have been furnished or services rendered as stated therein; that no bonus has been given or received by any person or persons within the knowledge of this claimant in connection with the above claim; that the amount therein stated is justly due and owing; and that the amount charged is a reasonable one.

X
Vendor sign & return here

HAROLD E. PELLOW and ASSOCIATES, INC.

Consulting Engineers, Planners and Land Surveyors

17 Plains Road, Augusta, NJ 07822-2009

(973) 948-6463; (973) 948-2916 (fax)

Estimate Certificate No. 1

Date:	For Work Completed Through December 13, 2024
Project:	Proposed Athletic Field Lighting at Veterans' Memorial Park
Owner:	Township of Vernon, Municipal Building, 21 Church Street, Vernon, NJ 07462
Contractor:	John J. Faccas, Inc., T/A Quality Electrical Construction, 9 Plum Lane, Holmdel, NJ 07733

Item No.	Description	Unit Measure	Original Contract Quantity	Extra or Supplem. Quantity	Reduction Quantity	Adjusted Quantity	Quantity to Date	Unit Price Totals	Total Amt. to Date or Final
1	Proposed Athletic Field Lighting - Field #1 & Field #2	L.S.	100%			100%	90%	\$ 258,400.00	\$ 232,560.00
2S	Enhanced Pole Foundations	L.S.	0%	100%		100%	100%	\$ 50,155.40	\$ 50,155.40
TOTAL:									\$ 282,715.40

Recommended for Approval	Signatures
Approved by	INSPECTOR
	MUNICIPAL ENGINEER

Original Contract \$ 258,400.00
Total Extra & Supplemental \$ 50,155.40
Total Reduction \$ -
Total Adjusted Contract \$ 308,555.40
(Based on Change Order No. 1)

Total Cost of Construction \$ 282,715.40
Less Retainage of 5% \$ 14,135.77
Less Previous Payments \$ -

PAYMENT NOW DUE:

\$ 268,579.63

HAROLD E. PELLOW and ASSOCIATES, INC.
17 Plains Road
Augusta, NJ 07822

CHANGE ORDER NUMBER - 1

Project	PROPOSED ATHLETIC FIELD LIGHTING AT VETERANS' MEMORIAL PARK
Municipality	TOWNSHIP OF VERNON, MUNICIPAL BUILDING, 21 CHURCH STREET, VERNON, NJ 07462
County	SUSSEX
Contractor	JOHN J. FACCAS, INC., T/A QUALITY ELECTRICAL CONSTRUCTION, 9 PLUM LANE, HOLMDEL, NJ 07733

In accordance with the project Supplementary Specification, the following are changes in the contract.

Location and Reason for Change (Attach additional sheets if required) -

Location Veterans' Memorial Park, Vernon Township
Reason Based on borings performed there for construction, it was determined that the poor subsurface soils will require extra deep reinforced concrete foundations to provide adequate foundations for the nine (9) lightpoles required for the project.

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>QUANTITY (+/-)</u>	<u>UNIT PRICE</u>	<u>AMOUNT</u>
	<u>SUPPLEMENTAL</u>			
2S	ENHANCED POLE FOUNDATIONS	100% L.S.	\$ 50,155.40	\$ 50,155.40
Total SUPPLEMENTAL:				\$ 50,155.40

AMOUNT OF ORIGINAL CONTRACT: \$258,400.00

**ADJUSTED AMOUNT BASED ON
CHANGE ORDER NO. 1:** \$308,555.40

% CHANGE IN CONTRACT: + 19.41%
 [(+) Increase or (-) Decrease]

EXTRA: \$ -

SUPPLEMENTAL: \$ 50,155.40

REDUCTION: \$ -

TOTAL CHANGE: \$ 50,155.40

 (Engineer) (Date)

 (Presiding Officer) (Date)

 (Contractor) (Date)

Application and Certificate for Payment

TO OWNER:
Township of Vernon
21 Church Street
Vernon, NJ 07462

PROJECT:

ATHLETIC FIELD LIGHTING AT VETERANS' MEMORIAL PARK

Application #

Period To

Projed #

Distribution to:

12/13/24

HPA-21-259

Owner	
Const. Mgr	
Architect	
Contractor	X

FROM CONTRACTOR:
Quality Electrical Const.
9 Plum Lane
Holmdel, NJ 07733

VIA:
HAROLD E. PELLOW & ASSOCIATES, INC.
17 Plains Road
Augusta, N 07822-2009

Contract Date

12/11/23

CONTRACT FOR: ATHLETIC FIELD LIGHTING AT VETERANS' MEMORIAL PARK

Contractor's Application for Payment

Application is made for payment, as shown below, in connection with the Contract. Continuation Sheet is attached.

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown therein is now due.

1. ORIGINAL CONTRACT SUM

\$	258,400.00
\$	50,155.40
\$	308,555.40
\$	282,715.40

2. Net change by Change Orders

3. CONTRACT SUM TO DATE (Line 1 +/- 2)

4. TOTAL COMPLETED & STORED TO DATE (Column G on Continuation Sheet)

5. RETAINAGE:

a. 5% of Completed Work (Columns D+E on Continuation Sheet)

\$ 14,135.77

b. 0% of Stored Material (Column F on Continuation Sheet)

\$ 0.00

Total Retainage (Line 5a + 5b or

Total in Column 1 of Continuation Sheet

\$	14,135.77
\$	288,579.63

6. TOTAL EARNED LESS RETAINAGE (Line 4 less Line 5 Total)

7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)

\$	0.00
\$	288,579.63

8. CURRENT PAYMENT DUE

9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6)

\$ 39,975.77

Change Order Summary	Additions	Deductions
Total changes approved in previous months by Owner	\$0.00	\$0.00
Total approved this Month	\$50,155.40	\$0.00
TOTALS	\$50,155.40	\$0.00
NET CHANGES by Change Order		\$50,155.40

CONTRACTOR:

By: Quality Electrical Construction Date: 12/13/24

State of: New Jersey

County of: Monmouth

Subscribed and sworn to before

me this 13 day of Dec 2024

Notary Public:

Alexandra Dowling

My Commission expires: 11/27/27

Certificate for Payment

In accordance with Contract Documents, based on on-site observations and the data comprising application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$

(Attach explanation if amount certified differs from the amount applied for. Initial all figures on this application and on the Continuation Sheet that are changed to conform to the amount certified.)

ARCHITECT:

By:

Date:

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner of Contractor under this Contract.

Page 2 of 2 pages

Application # 1

Application # 1

Application # 1

Period To 13-Dec-24

Project # HPA-21-25

[illegible]

TOWNSHIP OF VERNON

RESOLUTION #25-217

**RESOLUTION ACCEPTING THE COMPLETION OF FIELD LIGHTING
PROJECT AT VETERAN'S MEMORIAL PARK
WITHIN VERNON TOWNSHIP**

WHEREAS, the Township awarded a contract for the Installation of Field Lighting at Veteran's Memorial Park to Quality Electrical Construction awarded by Resolution #23-279 on December 11, 2023, and

WHEREAS, the Installation of Field Lighting at Veteran's Memorial Park has been completed, and inspected as per the plans and specifications; and

WHEREAS, the Township Engineer has submitted a letter dated August 29, 2025 which states that the Field Lighting Project at Veteran's Memorial Park contract has been completed in full and that it is recommended that it be accepted by the Township Council.

NOW, THEREFORE BE IT RESOLVED, that the Vernon Township Council accept this project identified as Field Lighting Project at Veteran's Memorial Park as final and complete; and

BE IT FURTHER RESOLVED, that this Resolution shall take effect immediately upon adoption according to law.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						



HAROLD E. PELLOW & ASSOCIATES, INC.

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ANN PELLOW WAGNER
NJ – C.L.A., VA – C.L.A., PA – C.L.A.
(5/26/84 – 7/27/89)

DAVID B. SIMMONS, JR., VICE PRESIDENT
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CORY L. STONER, EXEC. VICE PRESIDENT
NJ – P.E., NJ – P.P., NJ – C.M.E.

MATTHEW J. MORRIS
NJ – L.L.A., NJ – P.P.

THOMAS G. KNUTELSKY, ASSOCIATE
NJ – P.E., NJ – P.P.

August 28, 2025

VIA E-MAIL

MEMORANDUM TO: Mr. Anthony Rossi, Vernon Township Mayor

FROM: Cory L. Stoner, P.E., C.M.E., Township Engineer

SUBJECT: **RECOMMENDATION TO ACCEPT PROJECT**
Proposed Athletic Field Lighting at Veterans' Memorial Park
HPA No. 21-259

Dear Mayor:

The above-referenced project has been fully completed by Quality Electric Construction according to the plans and specifications. At this time, I recommend the project be accepted by the Mayor and Township Council. Once this project has been accepted, the final paperwork can be prepared and final release of retainages can occur.

If there are any questions, please feel free to contact me.

Very truly yours,

Cory L. Stoner, P.E., C.M.E.
HAROLD E. PELLOW & ASSOCIATES, INC.
Vernon Township Engineer

CLS:cls
K:\PROJECTS\MUNICIPAL\VERNON\COUNCIL\21-259 - LIGHTING FOR ATHLETIC FIELD AT VETERANS' MEMORIAL PARK\ROSSI3.DOCX

cc: **VIA E-MAIL**
Marcy Gianattasio, Vernon Township Municipal Clerk
Donelle Bright, Vernon Township CFO

TOWNSHIP OF VERNON

RESOLUTION #25-218

AUTHORIZING CHANGE ORDER #1 AND CHANGE ORDER #2 OF CONTRACT FOR
PROPOSED IMPROVEMENTS OF SAND HILL ROAD
WITHIN VERNON TOWNSHIP WITH SCHIFANO CONSTRUCTION CORP.

WHEREAS, on August 28, 2023, by way of adoption of Resolution #23-227, the Council of the Township of Vernon awarded a contract to Schifano Construction Corp. for Milling & Paving on Sand Hill Road which contract provided for an expenditure of \$230,511.15 and

WHEREAS, in a memo dated November 16, 2023, the Township Engineer states that the contract requires a Change Order #1 by the reduction of five (5) items in amount of \$45,813.62; and

WHEREAS, in a memo dated August 29, 2025, the Township Engineer states that the contract requires a Change Order #2 by the reduction on one (1) item in the amount of \$2,836.54 resulting in a final decreased contract amount of \$181,860.99; and

WHEREAS, the Township Engineer, in concurrence with the Mayor, recommends approving Change Order No. 1 and Change Order No. 2 resulting in the adjusted decreased final contract amount of \$181,860.99

NOW THEREFORE BE IT RESOLVED, by the Council of the Township of Vernon that it hereby approves the Township Engineer's recommendations and authorizes the Mayor to execute said Change Order No. 1 and change Order No. 2 for said project resulting in the adjusted decreased final contract amount of \$181,860.99 for said project; and

BE IT FURTHER RESOLVED that certified copies of this Resolution be forwarded to Schifano Construction Corp and the Township Engineer.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						



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from the NJ Society of Professional Engineers
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ANN PELLOW WAGNER
NJ - C.L.A., VA - C.L.A., PA - C.L.A.
(5/26/84 - 7/27/89)

DAVID B. SIMMONS, JR., VICE PRESIDENT
NJ - P.E. & L.S., NJ - P.P., NJ - C.M.E.
NY - P.E. & L.S., PA - P.E. & L.S.

CORY L. STONER, EXEC. VICE PRESIDENT
NJ - P.E., NJ - P.P., NJ - C.M.E.

MATTHEW J. MORRIS
NJ - L.L.A., NJ - P.P.

THOMAS G. KNUTELSKY, ASSOCIATE
NJ - P.E., NJ - P.P.

August 29, 2025

VIA E-MAIL

MEMORANDUM TO: Mr. Anthony Rossi, Vernon Township Mayor

FROM: Cory L. Stoner, P.E., C.M.E., Township Engineer

SUBJECT: Proposed Improvements to Sand Hill Road - Milling and Paving
Vernon Township, Sussex County
HPA No. 23-150

Dear Mayor,

Enclosed herewith please find the following paperwork in reference to the above project:

1. Copy of Vernon Township Purchase Order No. 23-01156, Drawdown No. 2 & Final, in the amount of \$857.41 due Schifano Construction Corp.
2. Estimate Certificate No. 2 & Final reflecting quantities used through October 29, 2023.
3. Copy of Change Orders No. 1 & 2 which reflect a final adjusted contract amount of \$181,860.99. Kindly have an authorized representative sign and date three copies on the line indicated *Presiding Officer*. Retain one copy for your file and **return the remaining two copies to this office**. We will forward one copy to Riverview Paving, Inc. and retain one copy in our files.

If you have any questions regarding this payment recommendation, please feel free to contact me.

Very truly yours,

Cory L. Stoner, P.E., C.M.E.
HAROLD E. PELLOW & ASSOCIATES, INC.
Vernon Township Engineer

CLS:cls
K:\PROJECTS\MUNICIPAL\VERNON\COUNCIL\23-150 - SAND HILL ROAD RESURFACING\MILLING & PAVING\ROSSII - PAY APP2.DOCX

cc: Marcy Gianattasio, Vernon Township Municipal Clerk (via email)
Donelle Bright, Vernon Township CFO (via email)

Township of Vernon
21 Church Street
Vernon, NJ 07462
Phone: (973)764-4055
Fax: (973)764-4799

Purchase Order

THIS NUMBER MUST APPEAR ON ALL INVOICES,
PACKING LISTS, CORRESPONDENCE, ETC.

NO. 23-01156

ORDER DATE: 09/05/23

DELIVERY DATE: 08/29/23

STATE CONTRACT: MCCPC 6

F.O.B. TERMS:

VENDOR ACCT NUM:

VENDOR PHONE #:

VENDOR FAX #:

REQUISITION #: R2302056

SHIP TO

ADMINISTRATION
VERNON TOWNSHIP
21 CHURCH STREET
VERNON, NJ 07462

VENDOR

Vendor #: SCHIF005

SCHIFANO CONSTRUCTION CORP
1 SMALLEY AVE
MIDDLESEX, NJ 08846

PAYMENT RECORD

CHECK NO.

DATE PAID

NOTICE: TAX EXEMPT - TAX ID: 22-6002358

QUANTITY	DESCRIPTION	ACCOUNT NO	UNIT PRICE	TOTAL
1.00	Sand Hill Rd Improvements Per MCCPC contract #6 and Res# 23-227	C-04-23-015-01	230,511.1500	230,511.15
			TOTAL	230,511.15
DRAWDOWN NO. 2 & FINAL FOR WORK COMPLETED THROUGH 10/29/2023 AS SHOWN ON ESTIMATE CERTIFICATE NO. 2 (ATTACHED) ORIGINAL CONTRACT AMOUNT \$230,511.15 ADJUSTED CONTRACT AMOUNT BASED ON CHANGE ORDER NO. 1 & 2 \$181,860.99 WORK COMPLETED THROUGH 10/29/2023 \$181,860.99 LESS PREVIOUS PAYMENTS \$ 181,003.58 AMOUNT DUE THIS DRAWDOWN <u>\$857.41</u>				

APPROVED FOR PURCHASE

QUALIFIED PURCHASING AGENT

BUSINESS ADMINISTRATOR/MAYOR

CERTIFICATION OF FUNDS

CHIEF FINANCIAL OFFICER

APPROVAL FOR PAYMENT

I, having knowledge of the facts, certify that the materials and supplies have been received or the services rendered; said certification being based on signed delivery slips or other reasonable procedures.

DEPT. HEAD

DATE

8/29/25

VENDOR'S CERTIFICATION & DECLARATION

I do solemnly declare and certify under penalties of the law that the within bill is correct in all its particulars; that the articles have been furnished or services rendered as stated therein; that no bonus has been given or received by any person or persons within the knowledge of this claimant in connection with the above claim; that the amount therein stated is justly due and owing; and that the amount charged is a reasonable one.

X

Vendor sign & return here

HAROLD E. PELLOW and ASSOCIATES, INC.
Consulting Engineers, Planners and Land Surveyors
17 Plains Road, Augusta, NJ 07822-2009
(973) 948-6463; (973) 948-2916 (fax)

Estimate Certificate No. 2 and Final

Date:	For Work Completed Through October 29, 2023
Project:	Proposed Improvements to Sand Hill Road - Milling & Paving
Owner:	Township of Vernon, Municipal Building, 21 Church Street, Vernon, NJ 07462
Contractor:	Schifano Construction Corp., 1 Smalley Avenue, Middlesex, NJ 08846

Item No.	Description	Unit Measure	Original Contract Quantity	Extra or Supplem. Quantity	Reduction Quantity	Adjusted Quantity	Quantity to Date	Unit Price Totals	Total Amt. to Date or Final
1	HMA Milling, 2" Thick	Sq. Yd.	15,215			15,215	15,215	\$ 3.61	\$ 54,926.15
2	HMA 9.5M64 Surface Course, 2" Thick	Ton	1,995		286.24	1,708.76	1,708.76	\$ 83.00	\$ 141,827.08
3	Fuel Price Adjustment	L.S.	100%		100%	0%	0%	\$ 5,000.00	\$ -
4	Asphalt Price Adjustment	L.S.	100%		100%	0%	0%	\$ 5,000.00	\$ -
3R	Fuel Price Adjustment	L.S.	0%		100%	100%	100%	(\$1,615.18)	\$ (1,615.18)
4R	Asphalt Price Adjustment	L.S.	0%		100%	100%	100%	(\$10,440.52)	\$ (10,440.52)
2R	Hot Mix Asphalt 9.5M64 Surface Course, 2" Thick, 2% Air Voids Penalty	Ton	0%		2%	100%	100%	(\$2,836.54)	\$ (2,836.54)
TOTAL:									\$ 181,860.99

Recommended for Approval		INSPECTOR
Approved by		MUNICIPAL ENGINEER

Original Contract \$ 230,511.15
Total Extra & Supplemental \$ -
Total Reduction \$ 45,813.62
Total Penalties \$ 2,836.54
Total Adjusted Contract \$ 181,860.99
(Based on Change Order No. 1 & 2)

Total Cost of Construction \$ 181,860.99
Less Retainage of 2% \$ -
Less Previous Payments \$ 181,003.58

PAYMENT NOW DUE:

\$ 857.41

Fuel Price Adjustment: Fuel price at time of bid = \$4.30, fuel price in October 2023 = \$4.10. Decrease = -\$0.20
Paving: -\$0.20 x 2.5 = -\$0.5
-\$0.5 x 1,708.76 Tons = -\$854.38
Milling: -\$0.2 x 0.25 = -\$0.05
-\$0.05 x 15,215 SY = -\$760.75
Total Fuel Adjustment: -\$854.38 + -\$760.75 = -\$1,615.18

The Asphalt Price Index was \$728.00/ton when bid, and in October 2023, it was \$590.00/ton, or a \$142.00/ton decrease. Therefore, the price increase for Item #4 is (1,708.76 tons) (4.3% asphalt per ton) x \$142.00/ton = -\$10,440.52

2% Air Void Penalty as per Corus: \$83.00/ton (x) 1,708.76 tons (x) 2% = \$2,836.54

NEW JERSEY DEPARTMENT OF TRANSPORTATION
STATE AID PROJECTS
CHANGE ORDER NUMBER - 1
Division of Local Aid and Economic Development

Project	PROPOSED IMPROVEMENTS TO SAND HILL ROAD - <u>MILLING & PAVING</u>
Municipality	TOWNSHIP OF VERNON, MUNICIPAL BUILDING, 21 CHURCH STREET, VERNON, NJ 07462
County	SUSSEX
Contractor	SCHIFANO CONSTRUCTION CORP., 1 SMALLEY AVENUE, MIDDLESEX, NJ 08846

In accordance with the project Supplementary Specification, the following are changes in the contract.
 Location and Reason for Change (Attach additional sheets if required).

Location Sand Hill Road, Vernon Township
Reason See below.

ITEM NO.	DESCRIPTION	QUANTITY (+/-)	UNIT PRICE	AMOUNT
2	<u>REDUCTION</u> HOT MIX ASPHALT 9.5M64 SURFACE COURSE 2" THICK As-built quantity.	286.24 TONS	\$83.00	\$23,757.92
3	FUEL PRICE ADJUSTMENT As per NJDOT Fuel Price Index.	100% L.S.	\$5,000.00	\$5,000.00
4	ASPHALT PRICE ADJUSTMENT As per NJDOT Asphalt Price Index.	100% L.S.	\$5,000.00	\$5,000.00
3R	FUEL PRICE ADJUSTMENT As per NJDOT Fuel Price Index.	100% L.S.	\$1,615.18	\$1,615.18
4R	ASPHALT PRICE ADJUSTMENT As per NJDOT Asphalt Price Index.	100% L.S.	\$10,440.52	\$10,440.52
Total REDUCTION:				\$45,813.62

AMOUNT OF ORIGINAL CONTRACT:

\$230,511.15

EXTRA:

\$0.00

ADJUSTED AMOUNT BASED ON
CHANGE ORDER NO. 1:

\$184,697.53

SUPPLEMENTAL:

\$0.00

% CHANGE IN CONTRACT:
[(+) Increase or (-) Decrease]

- 19.9%

REDUCTION:

\$45,813.62

TOTAL CHANGE:

(\$45,813.62)

LS-
(Engineer)

11/17/23
(Date)

(District Manager) (Date)
(Division of Local Aid and Economic Development)

(Presiding Officer)

(Date)

Dante Schifano
(Contractor)

11.15.2023
(Date)

Dante Schifano
President

NEW JERSEY DEPARTMENT OF TRANSPORTATION
STATE AID PROJECTS
CHANGE ORDER NUMBER - 2
Division of Local Aid and Economic Development

Project	PROPOSED IMPROVEMENTS TO SAND HILL ROAD - <u>MILLING & PAVING</u>
Municipality	TOWNSHIP OF VERNON, MUNICIPAL BUILDING, 21 CHURCH STREET, VERNON, NJ 07462
County	SUSSEX
Contractor	SCHIFANO CONSTRUCTION CORP. 1 SMALLEY AVENUE MIDDLESEX, NJ 08846

In accordance with the project Supplementary Specification, the following are changes in the contract.

Location and Reason for Change (Attach additional sheets if required.)

Location Sand Hill Road, Vernon Township
Reason 2% Air Void Penalty \$83.00/ton x (1,708.76 tons) x 2% = (\$2,836.54)

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>QUANTITY (+/-)</u>	<u>UNIT PRICE</u>	<u>AMOUNT</u>
REDUCTION				
2R	COURSE, 2" THICK AIR VOID PENALTY	100% L.S.	\$ 2,836.54	\$ 2,836.54
Total REDUCTION:				<u>\$ 2,836.54</u>

AMOUNT OF ORIGINAL CONTRACT: \$230,511.15

ADJUSTED AMOUNT BASED ON
CHANGE ORDER NO. 1: \$184,697.53

ADJUSTED AMOUNT BASED ON
CHANGE ORDER NO. 2: \$181,860.99

% CHANGE IN CONTRACT: -21.11%
 [(+) Increase or (-) Decrease]

EXTRA: \$0.00

SUPPLEMENTAL: \$0.00

REDUCTION: \$ 2,836.54

TOTAL CHANGE: (\$2,836.54)


 (Engineer)

8-29-25
 (Date)

 (District Manager) (Date)
 (Division of Local Aid and Economic Development)

 (Presiding Officer)

 (Date)


 (Contractor)

8-29-2025
 (Date)

Dale Sch... President

TOWNSHIP OF VERNON

RESOLUTION #25-219

**RESOLUTION ACCEPTING THE COMPLETION OF ROAD IMPROVEMENTS
PROJECT TO SAND HILL ROAD WITHIN VERNON TOWNSHIP**

WHEREAS, the Township awarded contracts for the Road Improvement Project for Sand Hill Road to Schifano Construction Corp., Denville Line Painting, Inc. and Road Safety Systems, LLC, awarded by Resolution#23-237 on August 28, 2023, and

WHEREAS, the Road Improvement Project for Sand Hill Road Project has been completed, and inspected as per the plans and specifications; and

WHEREAS, the Township Engineer has submitted a letter dated August 29, 2025 which states that the said contracts have been completed in full and that it is recommended that the Road Improvement Project for Sand Hill Road be accepted by the Township Council.

NOW, THEREFORE BE IT RESOLVED, that the Vernon Township Council accept this project identified as Road Improvement Project for Sand Hill Road as final and complete; and

BE IT FURTHER RESOLVED, that this Resolution shall take effect immediately upon adoption according to law.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						



HAROLD E. PELLOW & ASSOCIATES, INC.

CONSULTING ENGINEERS · PLANNERS · LAND SURVEYORS

ESTABLISHED 1969

HAROLD E. PELLOW, PRESIDENT
*2022 Distinguished Engineering Service Award
from the NJ Society of Professional Engineers*
NJ - P.E. & L.S., NJ - P.P., NJ - C.M.E.

ANN PELLOW WAGNER
NJ - C.L.A., VA - C.L.A., PA - C.L.A.
(512/6784 - 7127/89)

DAVID B. SIMMONS, JR., VICE PRESIDENT
NJ - P.E. & L.S., NJ - P.P., NJ - C.M.E.
NY - P.E. & L.S., PA - P.E. & L.S.

CORY L. STONER, EXEC. VICE PRESIDENT
NJ - P.E., NJ - P.P., NJ - C.M.E.

MATTHEW J. MORRIS
NJ - L.L.A., NJ - P.P.

THOMAS G. KNUTELSKY, ASSOCIATE
NJ - P.E., NJ - P.P.

August 28, 2025

VIA E-MAIL

MEMORANDUM TO: Mr. Anthony Rossi, Vernon Township Mayor

FROM: Cory L. Stoner, P.E., C.M.E., Township Engineer

SUBJECT: RECOMMENDATION TO ACCEPT PROJECT
Proposed Improvements to Sand Hill Road
HPA No. 23-150

Dear Mayor,

The above-referenced project has been fully completed per the project plans and specifications, and construction has been approved by the New Jersey Department of Transportation. At this time, I recommend the project be accepted by the Mayor and Township Council. Once this project has been accepted, my office will work on the preparation of the final paperwork for submittal to the New Jersey Department of Transportation and seek the release of final grant funds to the Township.

If there are any questions, please feel free to contact me.

Very truly yours,

Cory L. Stoner, P.E., C.M.E.
HAROLD E. PELLOW & ASSOCIATES, INC.
Vernon Township Engineer

CLS:cls
K:\PROJECTS\MUNICIPAL\VERNON\COUNCIL\23-150 - SAND HILL ROAD RESURFACING\ROSSI PROJECT ACCEPTANCE.DOCX

cc: VIA EMAIL
Marcy Gianattasio, Vernon Township Municipal Clerk
Donelle Bright, Vernon Township CFO

TOWNSHIP OF VERNON

RESOLUTION #25-220

AUTHORIZING CHANGE ORDER #2 OF CONTRACT FOR PROPOSED IMPROVEMENTS TO GLENWOOD MOUNTAIN ROAD WITH RIVERVIEW PAVING, INC.

WHEREAS, on October 17, 2024, by way of adoption of Resolution #24-264, the Council of the Township of Vernon awarded a contract to Riverview Paving, Inc. for Milling & Paving of Glenwood Mountain Road which contract provided for an expenditure of \$208,283.60 and

WHEREAS, on January 15, 2025, the Council approved Change Order #1 resulting in the decreased contract amount of \$190,599.08; and

WHEREAS, in a memo dated August 28, 2025, the Township Engineer states that the contract requires a Change Order #2 by the reduction of 1 (one) item in total amount of \$1,597.12 resulting in a decreased final contract amount of \$189,001.96; and

WHEREAS, the Township Engineer, in concurrence with the Mayor, recommends approving Change Order No. 2 resulting in a decreased final contract amount of \$189,001.96.

NOW THEREFORE BE IT RESOLVED, by the Council of the Township of Vernon that it hereby approves the Township Engineer's recommendations and authorizes the Mayor to execute said Change Order No. 2 for said project resulting in the final contract amount of \$189,001.96 for said project; and

BE IT FURTHER RESOLVED that certified copies of this Resolution be forwarded to Riverview Paving, Inc. and the Township Engineer.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						



HAROLD E. PELLOW & ASSOCIATES, INC.

CONSULTING ENGINEERS · PLANNERS · LAND SURVEYORS

ESTABLISHED 1969

HAROLD E. PELLOW, PRESIDENT
2022 Distinguished Engineering Service Award
from the NJ Society of Professional Engineers
NJ - P.E. & L.S., NJ - P.P., NJ - C.M.E.

ANN PELLOW WAGNER
NJ - C.L.A., VA - C.L.A., PA - C.L.A.
(5/26/84 - 7/27/89)

MATTHEW J. MORRIS
NJ - L.L.A., NJ - P.P.

DAVID B. SIMMONS, JR., VICE PRESIDENT
NJ - P.E. & L.S., NJ - P.P., NJ - C.M.E.
NY - P.E. & L.S., PA - P.E. & L.S.

THOMAS G. KNUTELSKY, ASSOCIATE
NJ - P.E., NJ - P.P.

CORY L. STONER, EXEC. VICE PRESIDENT
NJ - P.E., NJ - P.P., NJ - C.M.E.

August 28, 2025

VIA E-MAIL

MEMORANDUM TO: Mr. Anthony Rossi, Vernon Township Mayor

FROM: Cory L. Stoner, P.E., C.M.E., Township Engineer

SUBJECT: Proposed Improvements to Glenwood Mountain Road – Section II
Milling & Paving Per Morris County Co-op
HPA No. 23-278

Dear Mayor,

Enclosed herewith please find the following paperwork in reference to the above project:

1. Copy of Vernon Township Purchase Order No. 24-01363, Drawdown No. 2 & Final, in the amount of \$2,214.86 due Riverview Paving, Inc.
2. Estimate Certificate No. 2 & Final reflecting quantities used through November 14, 2024.
3. Copy of Change Order No. 2 which reflect an adjusted contract amount of \$189,001.96. Kindly have an authorized representative sign and date three copies on the line indicated *Presiding Officer*. Retain one copy for your file and *return the remaining two copies to this office*. We will forward one copy to Riverview Paving, Inc. and retain one copy in our files.
4. Letter dated April 18, 2025 from Riverview Paving, Inc. certifying that "...all costs incurred on this project have been paid in full. Said costs are for, but not limited to, labor, material, subcontractors, and equipment rental."

If you have any questions regarding this payment recommendation, please feel free to contact me.

Very truly yours,

Cory L. Stoner, P.E., C.M.E.
HAROLD E. PELLOW & ASSOCIATES, INC.
Vernon Township Engineer

CLS:cls
K:\PROJECTS\MUNICIPAL\VERNON\COUNCIL\21-259 - LIGHTING FOR ATHLETIC FIELD AT VETERANS' MEMORIAL PARK\ROSSI2.DOCX

cc: Marcy Gianattasio, Vernon Township Municipal Clerk (via email)
Donelle Bright, Vernon Township CFO (via email)

Township of Vernon
21 Church Street
Vernon, NJ 07462
Phone: (973)764-4055
Fax: (973)764-4799

Purchase Order

THIS NUMBER MUST APPEAR ON ALL INVOICES,
PACKING SLIPS, CORRESPONDENCE, ETC.

NO. 24-01363

SHIP TO

ADMINISTRATION
VERNON TOWNSHIP
21 CHURCH STREET
VERNON, NJ 07462

ORDER DATE: 10/23/24

DELIVERY DATE: 10/21/24

STATE CONTRACT: MCCPC#6

F.O.B. TERMS:

VENDOR ACCT NUM:

VENDOR PHONE #:

VENDOR FAX #:

REQUISITION #: R2402470

VENDOR

Vendor #: RIVER020

RIVERVIEW PAVING, INC.
859 WILLOW GROVE STREET
HACKETTSTOWN, NJ 07840

PAYMENT RECORD

CHECK NO.

DATE PAID

NOTICE: TAX EXEMPT - TAX ID: 22-6002358

QUANTITY	DESCRIPTION	ACCOUNT NO.	UNIT PRICE	TOTAL
1.00	Glenwood Mtn Road Section II Per Res#24-264 Milling & Paving MCCPC#6	C-04-24-010-01	208,283.6000	208,283.60
			TOTAL	208,283.60
DRAWDOWN NO. 2 & FINAL FOR WORK COMPLETED THROUGH 11/14/2024 AS SHOWN ON ESTIMATE CERTIFICATE NO. 2 & FINAL (ATTACHED) ORIGINAL CONTRACT AMOUNT \$208,283.60 ADJUSTED CONTRACT AMOUNT BASED ON CHANGE ORDER NO. 1 & NO. 2 \$189,001.96 WORK COMPLETED THROUGH 11/14/2024 \$189,001.96 LESS PREVIOUS PAYMENTS (\$186,787.10) AMOUNT DUE THIS DRAWDOWN \$2,214.86				

APPROVED FOR PURCHASE

QUALIFIED PURCHASING AGENT

BUSINESS ADMINISTRATOR/MAYOR

CERTIFICATION OF FUNDS

CHIEF FINANCIAL OFFICER

APPROVAL FOR PAYMENT

I, having knowledge of the facts, certify that the materials and supplies have been received or the services rendered; said certification being based on signed delivery slips or other reasonable procedures.

DEPT. HEAD

DATE

VENDOR'S CERTIFICATION & DECLARATION
I do solemnly declare and certify under penalties of the law that the within bill is correct in all its particulars; that the articles have been furnished or services rendered as stated therein; that no bonus has been given or received by any person or persons within the knowledge of this claimant in connection with the above claim; that the amount therein stated is justly due and owing; and that the amount charged is a reasonable one.

X

Vendor sign & return here

HAROLD E. FELLOW and ASSOCIATES, INC.
Consulting Engineers, Planners and Land Surveyors
17 Plains Road, Augusta, NJ 07822-2009

ESTIMATE CERTIFICATE NO. 2 FINAL

Date	For Work Completed Through November 14, 2024
Project	Proposed Improvements to Glenwood Mountain Road - Section II - Milling & Paving
Owner	Township of Vernon, Municipal Building, 21 Church Street, Vernon, NJ 07462
Contractor	Riverview Paving, Inc., 859 Willow Grove Street, Hackettstown, NJ 07840

Item No.	Description	Unit Measure	Original Contract Quantity	Extra or Supplem. Quantity	Reduction Quantity	Adjusted Quantity	Quantity to Date	Unit Price Totals	Total Amt. to Date or Final
1	HMA Milling, 2" Thick	Sq. Yd.	16,185			16,185	16,185	\$ 2.81	\$ 45,479.85
2	Hot Mix Asphalt 9.5M64 Surface Course, 2" Thick	Ton	2,055		13.95	2,041.05	2,041.05	\$ 78.25	\$ 159,712.16
3	Fuel Price Adjustment	L.S.	100%		100%	0%	0%	\$ 1,000.00	\$ -
4	Asphalt Price Adjustment	L.S.	100%		100%	0%	0%	\$ 1,000.00	\$ -
3R	Fuel Price Adjustment	L.S.	0%		100%	100%	100%	\$ (7,959.52)	\$ (7,959.52)
4R	Asphalt Price Adjustment	L.S.	0%		100%	100%	100%	\$ (6,633.41)	\$ (6,633.41)
2R	Hot Mix Asphalt 9.5M 64 Surface Course 2" Thick - Air Void Penalty	L.S.	0%		100%	100%	100%	\$ (1,597.12)	\$ (1,597.12)
TOTAL:									\$ 189,001.96

Recommended for Approval	Signatures
Approved by	INSPECTOR
	MUNICIPAL ENGINEER

Original Contract	\$ 208,283.60
Total Extra & Supplemental	\$ -
Total Reduction	\$ 19,281.64
Total Adjusted Contract	\$ 189,001.96

(Based on Change Order No. 2)

Total Cost of Construction	
Less Retainage of	2%
Less Previous Payments	

PAYMENT NOW DUE

\$ 2,214.86

The Asphalt Price Index was \$603.00 in September 2023 when bid, and when paved in November 2024, it was \$538.00/ton, or a \$65.00/ton decrease. Therefore, the price escalation for Item #4R is 2,041.05 tons (0.05 amount of oil in asphalt) = 102.0525 (-\$65.00) = -\$6,633.41

Fuel Price Adjustment: Fuel price at time of bid = \$4.09,

fuel price in November 2024 = \$3.22. Decrease = -\$0.87

Paving: -\$0.87 x 2.5 = -\$2.175

Milling: -\$2.175 x 2,041.05 Tons = -\$4,439.28

Total Fuel Adjustment: -\$4,439.28 + -\$0.2175

2% Air Void Penalty for Lot #2 = \$78.25/ton x (2041.05 tons) / 2 x 2% = (\$1,597.12)

2% Air Void Penalty for Lot #2 = \$78.25/ton x (2041.05 tons) / 2 x 2% = (\$1,597.12)



859 Willow Grove Street
Hackettstown, NJ 07840

Phone: 973-887-4800
Fax: 973-887-4802

April 18, 2025

Vernon Township
21 Church Street
Vernon, NJ 07462

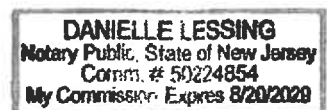
**MCCPC Contract 6- Improvements to Glenwood Mountain Road
Letter of Certification**

This letter is to certify that Riverview Paving, Inc. has completed the MCCPC Contract 6- Improvements to Glenwood Mountain Road Project. All costs incurred on said job have been paid in full. Costs include, but are not limited to, labor, materials, subcontractors, and equipment rental.

Regards,

James Mazzella
CFO
Riverview Paving, Inc.
973-887-4800

Signature of Public Notary



An Equal Opportunity Employer

TOWNSHIP OF VERNON

RESOLUTION #25-221

**RESOLUTION ACCEPTING THE COMPLETION OF ROAD IMPROVEMENTS
PROJECT TO GLENWOOD MOUNTAIN ROAD -SECTION II
WITHIN VERNON TOWNSHIP**

WHEREAS, the Township awarded contracts for the Road Improvement Project for Glenwood Mountain Road Section II to Riverview Paving, Inc., Denville Line Painting, Inc. Campbell Foundry Co., and Road Safety Systems, LLC, awarded by Resolution#24-264 on October 17, 2024, and

WHEREAS, the Road Improvement Project for Glenwood Mountain Road Section II has been completed, and inspected as per the plans and specifications; and

WHEREAS, the Township Engineer has submitted a letter dated August 28, 2025 which states that the said contracts have been completed in full and that it is recommended that the Road Improvement Project for Glenwood Mountain Road Section II be accepted by the Township Council.

NOW, THEREFORE BE IT RESOLVED, that the Vernon Township Council accept this project identified as Road Improvement Project for Glenwood Mountain Road Section II as final and complete; and

BE IT FURTHER RESOLVED, that this Resolution shall take effect immediately upon adoption according to law.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						



HAROLD E. PELLOW & ASSOCIATES, INC.

CONSULTING ENGINEERS · PLANNERS · LAND SURVEYORS

ESTABLISHED 1969

HAROLD E. PELLOW, PRESIDENT
*2022 Distinguished Engineering Service Award
from the NJ Society of Professional Engineers*
NJ - P.E. & L.S., NJ - P.P., NJ - C.M.E.

CORY L. STONER, EXEC. VICE PRESIDENT
NJ - P.E., NJ - P.P., NJ - C.M.E.

ANN PELLOW WAGNER
NJ - C.L.A., VA - C.L.A., PA - C.L.A.
(5/26/84 - 7/27/89)

MATTHEW J. MORRIS
NJ - L.L.A., NJ - P.P.

DAVID B. SIMMONS, JR., VICE PRESIDENT
NJ - P.E. & L.S., NJ - P.P., NJ - C.M.E.
NY - P.E. & L.S., PA - P.E. & L.S.

THOMAS G. KNUTELSKY, ASSOCIATE
NJ - P.E., NJ - P.P.

August 28, 2025

VIA E-MAIL

MEMORANDUM TO: Mr. Anthony Rossi, Vernon Township Mayor

FROM: Cory L. Stoner, P.E., C.M.E., Township Engineer

SUBJECT: RECOMMENDATION TO ACCEPT PROJECT
Proposed Improvements to Glenwood Mountain Road – Section II
HPA No. 23-278

Dear Mayor,

The above-referenced project has been fully completed per the project plans and specifications. At this time, I recommend the project be accepted by the Mayor and Township Council. Once this project has been accepted, my office will work on the preparation of the final paperwork for submittal to the New Jersey Department of Transportation and seek the release of final grant funds to the Township.

If there are any questions, please feel free to contact me.

Very truly yours,

Cory L. Stoner, P.E., C.M.E.
HAROLD E. PELLOW & ASSOCIATES, INC.
Vernon Township Engineer

CLS:cls
K:\PROJECTS\MUNICIPAL\VERNON\COUNCIL\23-278 - GLENWOOD MOUNTAIN ROAD SECTION II\ROSSI PROJECT ACCEPTANCE.DOCX

cc: VIA EMAIL
Marcy Gianattasio, Vernon Township Municipal Clerk
Donelle Bright, Vernon Township CFO

TOWNSHIP OF VERNON

RESOLUTION #25-222

AUTHORIZE UNION COUNTY COOPERATIVE PRICING AGREEMENT

WHEREAS, N.J.S.A., 40A:11-1 et. seq. authorizes contracting units to enter into Cooperative Pricing Agreements; and

WHEREAS, the County of Union hereinafter referred to as “the Lead Agency” has offered voluntary participation in a renewal participation in a Cooperative Pricing System for the purchase of work, materials and supplies; and

WHEREAS, the Township of Vernon in the County of Sussex desires to participate in the Union County Cooperative Pricing Agreement.

NOW, THEREFORE, BE IT RESOLVED, that the Township Committee of the Township of Vernon, County of Sussex, State of New Jersey, authorizes the Township of Vernon to participate in the Union County Cooperative Pricing Agreement and execute a Cooperative Pricing Agreement with the County of Union upon its approval by the Division of Local Government Services; and

BE IT FURTHER RESOLVED, that the County of Union as Lead Agency is expected to comply with provisions of the Local Public Contracts Law (N.J.S.A. 40A:11-1 et. seq. and all of the provisions of the revised statutes of the State of New Jersey).

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

TOWNSHIP OF VERNON

RESOLUTION #25-223

Authorize the Award of a Required Disclosure Contract with Otis Elevator for Elevator Maintenance and Repair

WHEREAS, the Township has a need for elevator maintenance and repair services; and

WHEREAS, Otis Elevator has provided for several quotes amounting to \$21,750.00, in the aggregate exceeding the pay to play threshold of \$17,500.00; and

WHEREAS, the Township has obtained multiple quotes in accordance with N.J.S.A. 40A:11-6.1; and

WHEREAS, Otis Elevator has completed and submitted a Business Entity Disclosure Certification and a Personal Contribution Disclosure form which certifies that the vendor has not made any reportable contributions to a political or candidate committee in the *Township of Vernon* in the previous one year, and that the contract will prohibit vendor from making any reportable contributions through the term of the contract, and

WHEREAS, the Chief Financial Officer hereby certifies that funds NOT TO EXCEED \$21,750.00 are available as follows:

NOW, THEREFORE, BE IT RESOLVED, that the Mayor and Council of the Township of Vernon authorizes the Mayor to enter into a contract with Otis Elevator, not to exceed \$21,750.00 for elevator maintenance and repair services; and

BE IT FURTHER RESOLVED, that the Business Disclosure Entity Certification and Personal Contribution Disclosure form, Determination of Value be placed on file with this resolution.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Otis Service and Repair Order

4/29/2025

CUSTOMER NAME

21 Church Street
21 Church Street
Vernon, NJ 07462

OTIS ELEVATOR COMPANY

105 FAIRFIELD ROAD
FAIRFIELD, NJ 07004

OTIS CONTACT

Moses Jean
Phone: (973) 382-6980
Email: Moses.Jean@otis.com

PROJECT LOCATION

MUNICIPAL BUILDING
21 CHURCH STREET
VERNON, NJ 07462

PROPOSAL NUMBER

QTE-002161448

We propose to furnish the necessary material and labor on the following units:

Unit	Customer Designation
F33700	P1

SCOPE OF WORK**TRITRONICS LEADING DOOR EDGE SYSTEM**

A solid -state infrared passenger protection system shall be installed on the car door. This system uses 64 infrared emitters and detectors to create an invisible safety net across the elevator entrance. The system continuously scans for interrupted beams. If any beam in the curtain is interrupted the Leading Edge Door System will reopen the elevator door instantly.

Clarifications:

AHJ Inspection: The above-mentioned proposal often requires a AHJ inspection or a permit to be pulled for the completion of the project. Often times inspection lead times can range from one (1) to three (3) weeks depending on your local jurisdiction.

FIXTURES - UPGRADE CAR OPERATING BUTTON LIGHTS TO LEDS

Otis will provide labor and material to replace the light bulbs on the existing car operating panel buttons to longer lasting and energy efficient LED bulbs.

Material provided shall be installed in accordance with the ASME A17.1 Safety Code for Elevators and Escalators.

The customer will be responsible for paying local inspection fees if applicable.

Your account representative will contact you to schedule the work. All work will be performed during regular working days and hours of the Elevator Trade unless otherwise specified above. The price quoted below does not include sales tax and is valid for 30 days from the date specified above. The work will be scheduled based on the availability of material and manpower to complete the job efficiently.

The scope proposed herein represents the entire scope that we are contracted for, if additional work is required by others to allow for completion of this work and/or for the inspection to occur, that work is not included. If additional labor and material are needed, a supplemental proposal will be sent.

PRICE

\$12,000.00

Twelve thousand dollars

This price is based on a **one hundred percent (100%) downpayment** in the amount of \$12,000.00.

PAYMENT TERMS:

- The downpayment amount is due in full prior to Otis ordering material and/or mobilizing.
- If you choose the alternative downpayment amount listed below, the corresponding adjustment shall be applied to the base contract amount.

Downpayment Percent	Price Adjustment Percentage	Authorization (Initial)
25%	+ 10%	
75%	+ 5%	

In the event 100% of the contract price is not paid up front, we must be paid the remaining balance no later than the completion of work. Final invoice will be submitted once work is scheduled.

This proposal, including the provisions printed on the pages following, shall be a binding contract between you, or the party identified below for whom you are authorized to contract (collectively referred to herein as "you"), and us when accepted by you through execution of this proposal by you and approved by our authorized representative; or by your authorizing us to perform work for the project and our commencing such work.

SUGGESTED BY: PETER JONES**TITLE:** Mechanic

Accepted in Duplicate

21 Church Street

Otis Elevator Company

Date: _____

Date: _____

Signed: _____

Signed: _____

Print Name: _____

Print Name: Marylou Menville

Title: _____

Title: Director & GM, Fairfield

Email: _____

Email: _____

Company Name: 21 Church Street

☐ Principal, Owner or Authorized Representative of
Principal or Owner☐ Agent _____
(Name of Principal or Owner)

TERMS AND CONDITIONS

1. This quotation is subject to change or withdrawal by us prior to acceptance by you.
2. The work shall be performed for the agreed price plus any applicable sales, excise or similar taxes as required by law. In addition to the agreed price, you shall pay to us any future applicable tax imposed on us, our suppliers or you in connection with the performance of the work described. Furthermore, you agree that the agreed price is subject to increase caused by any reason beyond Otis' reasonable control including but not limited to commodity, fuel, tariff, and/or shipping transportation cost increases.
3. Payments shall be made as follows: A down payment of One Hundred percent (100.0%) of the price shall be paid by you upon your signing of this document. Full payment shall be made on completion if the work is completed within a thirty days period. If the work is not completed within a thirty day period, monthly progress payments shall be made based on the value of any equipment ready or delivered. We reserve the right to discontinue our work at any time until payments shall have been made as agreed and we have assurance satisfactory to us that subsequent payments will be made when due. Payments not received within thirty (30) days of the date of invoice shall be subject to interest accrued at the rate of eighteen percent (18%) per annum or at the maximum rate allowed by applicable law, whichever is less. We shall also be entitled to reimbursement from you of the expenses, including attorney's fees, incurred in collecting any overdue payments.
4. In the event the work is not completed within 180 calendar days from your original authorization to proceed through no fault of Otis, Otis may notify you of an updated price – which may be accepted or rejected by you. If rejected, Otis will not be required to perform work, and no amounts will be due and payable by you hereunder except amounts for any labor, services, or materials that had already been furnished or procured by Otis prior to notice of price increase. If you are not notified of a new price by Otis, then the parties' obligations will be unchanged and each party will be required to perform their obligations hereunder.
5. Our performance is conditioned upon your securing any required governmental approvals for the installation of any equipment provided hereunder and your providing our workmen with a safe place in which to work. Additionally, you agree to notify us if you are aware or become aware prior to the completion of the work of the existence of asbestos or other hazardous material in any elevator hoistway, machine room, hallway or other place in the building where Otis personnel are or may be required to perform their work. In the event it should become necessary to abate, encapsulate or remove asbestos or other hazardous materials from the building, you agree to be responsible for such abatement, encapsulation or removal, and in such event Otis shall be entitled to delay its work until it is determined to our satisfaction that no hazard exists and compensation for delays encountered if such delay is more than sixty (60) days. In any event, we reserve the right to discontinue our work in the building whenever in our opinion this provision is being violated.
6. Unless otherwise agreed in writing, it is understood that the work shall be performed during our regular working hours of our regular working days. If overtime work is mutually agreed upon and performed, an additional charge therefore, at our usual rates for such work, shall be added to the contract price. The performance of our work hereunder is conditioned on your performing the preparatory work and supplying the necessary data specified on the front of this proposal or in the attached specification, if any. Should we be required to make an unscheduled return to your site to begin or complete the work due to your request, acts or omissions, then such return visits shall be subject to additional charges at our then current labor rates.
7. Title to any material to be furnished hereunder shall pass to you when final payment for such material is received. In addition, we shall retain a security interest in all material furnished hereunder and not paid for in full. You agree that a copy of this Agreement may be used as a financing statement for the purpose of placing upon public record our interest in any material furnished hereunder, and you agree to execute a UCC -1 form or any other document reasonably requested by us for that purpose.
8. Except insofar as your equipment may be covered by an Otis maintenance or service contract, it is agreed that we will make no examination of your equipment other than that necessary to do the work described in this contract and assume no responsibility for any part of your equipment except that upon which work has been done under this contract.
9. Otis shall not be liable for any loss, damage or delay due to any cause beyond our reasonable control including, but not limited to, acts of government, strikes, lockouts, other labor disputes, fire, explosion, theft, floods, water damage, weather damage, extreme weather, traffic conditions, epidemic, pandemic, quarantine (including Covid-19), sabotage, cyber security, national emergency, act of terrorism, earthquake, riot, civil commotion, war or insurrection, vandalism, misuse, abuse, mischief, or acts of God or nature.
10. We warrant that all services furnished will be performed in a workmanlike manner. We also warrant that any equipment provided hereunder shall be free from defects in workmanship and material. Our sole responsibility under this warranty shall be at our option to correct any defective services and to either repair or replace any component of the equipment found to be defective in workmanship or material provided that written notice of such defects shall have been given to us by you within ninety (90) days after completion of the work or such longer period as may be indicated on the front of this form. All defective parts that are removed and replaced by us shall become our property. We do not agree under this warranty to bear the cost of repairs or replacements due to vandalism, abuse, misuse, neglect, normal wear and tear, modifications not performed by us, improper or insufficient maintenance by others, or any causes beyond our control. We shall conduct, at our own expense, the entire defense of any claim, suit or action alleging that, without further combination, the use by you of any equipment provided hereunder directly infringes any patent, but only on the conditions that (a) we receive prompt written notice of such claim, suit or action and full opportunity and authority to assume the sole defense thereof, including settlement and appeals, and all information available to you for such defense; (b) said equipment is made according to a specification or design furnished by us; and (c) the claim, suit or action is brought against you. Provided all of the foregoing conditions have been met, we shall, at our own expense, either settle said claim, suit or action or shall pay all damages excluding consequential damages and costs awarded by the court therein and, if the use or resale of such equipment is finally enjoined, we shall, at our option, (i) procure for you the right to use the equipment, (ii) replace the equipment with equivalent noninfringing equipment, (iii) modify the equipment so it becomes noninfringing but equivalent, or (iv) remove the equipment and refund the purchase price (if any) less a reasonable allowance for use, damage and obsolescence.

THE EXPRESS WARRANTIES SET FORTH HEREIN ARE THE EXCLUSIVE WARRANTIES GIVEN; WE MAKE NO OTHER WARRANTIES EXPRESS OR IMPLIED, AND SPECIFICALLY MAKE NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR ANY PARTICULAR PURPOSE; AND

THE EXPRESS WARRANTIES SET FORTH IN THIS ARTICLE ARE IN LIEU OF ANY SUCH WARRANTIES AND ANY OTHER OBLIGATION OR LIABILITY ON OUR PART.

11. Under no circumstances shall either party be liable for special, indirect, liquidated, or consequential damages in contract, tort, including negligence, warranty or otherwise, notwithstanding any indemnity provision to the contrary. Notwithstanding any provision in any contract document to the contrary, our acceptance is conditioned on being allowed additional time for the performance of the Work due to delays beyond our reasonable control. Your remedies set forth herein are exclusive and our liability with respect to any contract, or anything done in connection therewith such as performance or breach thereof, or from the manufacture, sale, delivery, installation, repair or use of any equipment furnished under this contract, whether in contract, in tort (including negligence), in warranty or otherwise, shall not exceed the price for the equipment or services rendered.
12. To the fullest extent permitted by law, you agree to defend, indemnify, and hold Otis harmless against any claim or suit for personal injury or property damage alleged to arise out of this contract, except to the extent that such damage or injury has been adjudicated as having been caused by Otis' sole negligence. In the event that Otis is requested to provide hoistway cartop/pit access to you, and/or to third parties acting at your request, direction, or control, and which may be subject to additional charges at Otis' sole discretion, then in addition to the foregoing defense, indemnity and hold harmless obligations, you shall carry and maintain the following insurance throughout the duration of such work in the hoistway/cartop/pit areas, and will furnish to Otis a certificate of insurance evidencing the following: Commercial General Liability insurance, written on an occurrence basis, with limits on a per occurrence basis of at least \$2,000,000 for personal injury or death, and \$2,000,000 for property damage, naming Otis as additional insured. Such insurance shall be issued by an insurer authorized to do business in the state or province where the property is located and the equipment and/or services are to be rendered, shall contain a clause in the policy setting forth the insurer's acceptance of liability as set forth in this agreement, and a clause pursuant to which the insurer waives any right of subrogation as to Otis. This policy shall be written as a primary policy only, and not contributing to or in excess of any insurance carried by Otis. You shall provide Otis with at least thirty (30) days prior written notice of cancellation or material change in the coverage.
13. It is agreed that after completion of our work, you shall be responsible for ensuring that the operation of any equipment being furnished hereunder is periodically inspected. The interval between such inspections shall not be longer than what may be required by the applicable governing safety code.
14. In furtherance of OSHA's directive contained in 29 C.F.R. § 1910.147(f)(2)(i), which requires that a service provider (an "outside employer") and its customer (an "on-site employer") must inform each other of their respective lock out/tag out ("LOTO") procedures whenever outside servicing personnel are to be engaged in control of hazardous energy activities on the customer's site, Otis incorporates by reference its mechanical LOTO procedures and its electrical LOTO procedures. These procedures can be obtained at www.otis.com by clicking on "Tools & Resources" on the home page, selecting "Lockout Tagout Policy" under the "Safety Information" column and downloading the "Lockout Tagout Policy Otis 6.0" and "Mechanical Energy Policy Otis 7.0," or the then most current version, both of which are in .pdf format. You agree that you will disseminate these procedures throughout your organization to the appropriate personnel who may interact with Otis personnel while Otis personnel are working on site at your facility and will ensure that such personnel comply with these LOTO procedures while Otis personnel are working on site.
15. This Agreement constitutes the entire understanding between the parties regarding the subject matter hereof and may not be modified by any terms on your order form or any other document and supersedes any prior written or oral communication relating to the same subject. Any amendment or modifications to this Agreement shall not be binding upon either party unless agreed to in writing by an authorized representative of each party.
16. This Contract will be deemed voidable, even after execution, if it is determined by Otis that performance of the services and/or engagement in the contractual relationship/transaction will violate, or is otherwise restricted by, any and all laws, regulations and/or orders, including sanctions laws, that are applicable to Otis or otherwise apply to Otis' operations.
17. By accepting delivery of parts incorporating software, you agree that the transaction is not a sale of such software but merely a license to use such software solely for operating the unit(s) for which the part was provided, not to copy or let others copy such software for any purpose whatsoever, to keep such software in confidence as a trade secret, and not to transfer possession of such part to others except as a part of a transfer of ownership of the equipment in which such part is installed, provided that you inform us in writing about such ownership transfer and the transferee agrees in writing to abide by the above license terms prior to any such transfer.

TOWNSHIP OF VERNON
SOLICITATION OF QUOTATION RECORD FORM

DEPARTMENT

Building

ITEM OR SERVICE

(Elevator Servicing Pump)

Verbal Quotes for Less Than \$6,000.00

Written/Formal Quotes \$6,000.00 but less than \$40,000.00 - Quotes Attached
(Quotes over \$17,500.00 must contact the QPA)

DATE CALLED:

May 12th

VENDOR:

J-L Elevator

PRICE:

No - Call back -

DELIVERY:

SPECIAL TERMS:

DATE CALLED:

May 12th

VENDOR:

Gene Elevator

PRICE:

DELIVERY:

Job Can't Do -

SPECIAL TERMS:

DATE CALLED:

Granger - no services for this

VENDOR:

PRICE:

OTIS Quote 9750\$

DELIVERY:

SPECIAL TERMS:

Recommended Vendor

OTIS

Cost:

9750\$

Department Initials

Administrator Initials

Account Number:

Comments:

Please ensure that you (1) attach all appropriate written quotes and (2) fill out the proper account number or else this form will be returned to your department.

Thank you for your anticipated cooperation.

OTIS Service and Repair Order - New Hydraulic Oil

05 / 09 / 2025

21 Church Street
21 Church Street
Vernon, New Jersey
7462 US

FROM:
Moses Jean
Moses.Jean@otis.com

EQUIPMENT LOCATION:
21 CHURCH STREET
VERNON, New Jersey
7462

MACHINE NUMBER(S):
F33700

INTENDED FOR:
Tina Krauss

Otis proposes to provide two mechanics to change the oil in the hydraulic elevator lines and power unit with new hydraulic oil. New oil aids in the pressurized system that allows the elevator to move up and down in the hoistway. It also aids in the longevity of the pump, motor, and valve within the power unit. The building is responsible for removal of the old hydraulic fluid.

Please note, this proposal is valid for 30 days based on current market conditions and is subject to material increases in line with the current market price for oil.

OPTION: I want Otis to remove the hydraulic fluid for an additional \$2,600 per unit: ☐ Yes ☐ No

Number of Units	Total Price
1	\$9750

The price is based on a percent (100%) downpayment in the amount of \$9750.

SPECIAL PROVISIONS:

In the event the location where work is to be conducted is greater than 50 miles from the local Otis field office, Otis reserves the right to issue a change order to supplement the additional travel expenses.

In the event your local AHJ (Authority Having Jurisdiction) requires a special inspection or permitting, Otis may issue a change order for those fees.

PAYMENT TERMS:

The base proposal price is contingent upon receiving a down payment of 100% of the base contract amount.

The down payment amount is due in full prior to Otis ordering material and/or mobilizing.

In the event 100% of the contract price is not paid up front, we must be paid the remaining balance no later than the completion of work. Final invoice will be submitted once work is scheduled.

The standard method of invoice delivery is via email. Please provide your email address in the customer signature block below. Exceptions for traditional mail delivery may be accommodated by notifying your account manager.

This proposal, including the provisions printed on the pages following, shall be a binding contract between you, or the party identified below for whom you are authorized to contract (collectively referred to herein as "you"), and us when accepted by you through execution of this proposal by you and approved by our authorized representative; or by authorizing us to perform work for the project and our commencing such work.

CUSTOMER

Approved by Authorized Representative

OTIS ELEVATOR COMPANY

Approved by Authorized Representative

MM / DD / YYYY

MM / DD / YYYY

Signature

Signature

Full Name

Printed Name

Title

General Manager

your@email.com

Name of Company

☐ Enter value

☐ Enter value

TERMS & CONDITIONS

1. The work shall be performed for the agreed price plus any applicable sales, excise or similar taxes as required by law.

2. In addition to the agreed price, you shall pay to us any future applicable tax imposed on us, our suppliers or you in connection with the performance of the work described.

3. This quotation is subject to change or withdrawal by us prior to acceptance.

4. We warrant to you that the work performed by us hereunder shall be free from defects, not inherent in the quality required or permitted, in material and workmanship for one (1) year from the date of substantial completion. We used commercially reasonable efforts to ensure that the EMS Panorama 2.0 software provided to you is free from viruses and vulnerabilities that may be exploited by third parties. Our duty and your remedy under this warranty are limited to our correcting any such defect you report to us within the warranty period by, at our option, repair or replacement, provided all payments due under the terms of this contract have been made in full. All parts used for repair or replacement under this warranty shall be good quality and furnished on an exchange basis. Printed circuit boards used for replacement parts under this warranty may be refurbished boards. Exchanged parts become our property. This warranty shall be voided if said defect is caused by your breach or negligence or unauthorized access or manipulation of the system.

5. We shall perform the work during our regular working hours of our regular working days unless otherwise agreed in writing. You shall be responsible for providing suitable storage space at the site for our material.

6. You shall obtain title to all the equipment, excluding the software, furnished hereunder when final payment for such material is received by us.

7. Any drawings, illustrations or descriptive matter furnished with the proposal are submitted only to show the general style, arrangement and dimensions of the equipment.

8. Payments shall be made as follows: A down payment of hundred percent (100%) of the price shall be paid after we have completed processing your equipment requirements, and orders are placed; the balance shall be paid on completion if the work is completed within a thirty day period. If the work is not completed within a thirty day period, monthly progress payments shall be made based on the value of any equipment ready or delivered, if any, and labor performed through the end of the month less a five percent (5%) retainage and the aggregate of previous payments. The retainage shall be paid when the work is completed. We reserve the right to discontinue our work at any time until payments shall have been made as agreed and we have assurance satisfactory to us that subsequent payments will be made when due. Payments not received within thirty (30) days of the date of invoice shall be subject to interest accrued at the rate of eighteen percent (18%) per annum or at the maximum rate allowed by applicable law, whichever is less. We shall also be entitled to reimbursement from you of the expenses, including attorney's fees, incurred in collecting any overdue payments.

9. Any material removed by us in the performance of the work shall become our property.

10. Our performance is conditioned upon your securing any required governmental approvals for the installation of any equipment provided hereunder and your providing our workmen with adequate electrical power at no cost to us with a safe place in which to work, and we reserve the right to discontinue our work in the building whenever in our opinion working conditions are unsafe. If overtime work is mutually agreed upon and performed, an additional charge thereof, at our usual rates for such work, shall be added to the contract price. The performance of our work hereunder is conditioned on your performing the preparatory work and supplying the necessary data specified on the front of this proposal or in the attached specification, if any. Should we be required to make an unscheduled return to your site to begin or complete the work due to your request, acts or omissions, then such return visits shall be subject to additional charges at our current labor rates.

11. We shall retain a security interest in all material furnished hereunder and not paid for in full. You agree that a copy of this Agreement may be used as a financing statement for the purpose of placing upon public record our interest in any material furnished hereunder, and you agree to execute a UCC-1 form or any other document reasonably requested by us for that purpose.

14. We do not agree under our warranty to bear the cost of repairs or replacements due to vandalism, abuse, misuse, neglect, normal wear and tear, modifications not performed by us, improper or insufficient maintenance by others, or any cause beyond our control.

15. We shall conduct, at our own expense, the entire defense of any claim, suit or action alleging that, without further combination, the use by you of any equipment provided hereunder directly infringes any patent, but only on the conditions that (a) we receive prompt written notice of such claim, suit or action and full opportunity to assume the sole defense thereof, including settlement and appeals, and all information available to you for such defense; (b) said equipment is made according to a specification or design furnished by us; and (c) the claim, suit or action is brought against you. Provided all of the foregoing conditions have been met, we shall, at our own expense, either settle said claim, suit or action or shall pay all damages, excluding special, consequential damages (INCLUDING DAMAGES FOR LOSS OF PROFITS, DAMAGES TO ANY COMPUTER, DEVICE, OR SYSTEM, LOSS OF DATA, GOODWILL, USE OR OTHER LOSSES), indirect damages, punitive damages, and costs awarded by the court therein and, if the use or resale of such equipment is finally enjoined, we shall at our option, (i) procure for you the right use of the equipment, (ii) replace the equipment with equivalent noninfringing equipment, (iii) modify the equipment so it becomes noninfringing but equivalent, or (iv) remove the equipment and refund the purchase price (if any) less a reasonable allowance for use, damage or obsolescence.

16. THE EXPRESS WARRANTIES SET FORTH IN THIS AGREEMENT ARE THE EXCLUSIVE WARRANTIES GIVEN: WE MAKE NO OTHER WARRANTIES EXPRESS OR IMPLIED, AND SPECIFICALLY MAKE NO WARRANTY OF MERCHANTABILITY, OF FITNESS FOR ANY PARTICULAR PURPOSE, OR THAT THE SOFTWARE IS FREE FROM VIRUSES OR VULNERABILITIES WHICH MAY BE EXPLOITED BY A THIRD PARTY; AND THE EXPRESS WARRANTIES SET FORTH IN THIS AGREEMENT ARE IN LIEU OF ANY SUCH WARRANTIES AND ANY OTHER OBLIGATION OR LIABILITY ON OUR PART.

17. Your remedies set forth herein are exclusive and our liability with respect to any contract, or anything done in connection therewith such as performance or breach thereof, or from the manufacture, sale, delivery, installation, repair or use of any equipment furnished under this contract, whether in contract, in tort, in warranty or otherwise, shall not exceed the price for the equipment or services rendered.

18. It is agreed that after completion of our work, you shall be responsible for ensuring that the operation of any equipment furnished hereunder is periodically inspected. The interval between such inspections shall not be longer than what may be required by the applicable governing safety code.

By accepting delivery of parts incorporating software you agree that the transaction is not a sale of such software but merely a license to use such software solely for operating the unit(s) for which the part was provided, not to copy or let others copy such software for any purpose whatsoever, to keep such software in confidence as a trade secret, and not to transfer possession of such part to others except as a part of a transfer of ownership of the equipment in which such part is installed, provided that you inform us in writing about such ownership transfer and the transferee agrees in writing to abide by the above license terms prior to any such transfer.

19. Our work shall not include the identification, detection, abatement, encapsulation or removal of asbestos, polychlorinated biphenyl (PCB), or products or materials containing asbestos, PCB's or other hazardous substances. In the event we encounter any such product or materials in the course of performing work, we shall have the right to discontinue our work and remove our employees from the project until you have taken the appropriate action to abate, encapsulate or remove such products or materials, and any hazards connected therewith, or until it is determined that no hazard exists (as the case may require). We shall receive an extension of time to complete the work hereunder and compensation for delays encountered as a result of such situation.

20. This Agreement constitutes the entire understanding between the parties regarding the subject matter hereof and may not be modified by any terms on your order form or any other document, and supersedes any prior written or oral communication relating to the same subject. Any amendment or modifications to this Agreement shall not be binding upon either party unless agreed to in writing by an authorized representative of each party. Both parties agree that any form issued by you that contains any terms

12. Except insofar as your equipment may be covered by an Otis maintenance or service contract, it is agreed that we will make no examination of your equipment other than that necessary to do the work described in this contract and assume no responsibility for any part of your equipment except that upon which work has been done under this contract.

13. Neither you nor we shall be liable to the other party hereto for any loss, damage or delay due to any cause beyond your or our reasonable control, including, but not limited to, acts of government, strikes, lockouts, fire, explosion, theft, floods, riot, civil commotion, war, malicious mischief or actors, or act of God; provided, however, that, should loss of or damage to our material or work occur at the site, you shall compensate us therefor unless such loss or damage results from our acts or omissions.

that are inconsistent with those contained herein shall not modify this Agreement, nor shall it constitute an acceptance of any additional terms.

Customer #: 642966

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TOWNSHIP OF VERNON

RESOLUTION 25-224

**RESOLUTION AUTHORIZING PURCHASE OF PIERCE
ENFORCER PUMPER FIRE FIGHTING EQUIPMENT THROUGH
SOURCEWELL NATIONAL COOPERATIVE #113021-OKC
THROUGH FIRE & SAFETY SERVICES INC.**

BE IT RESOLVED, by the Council of the Township of Vernon, Sussex County, State of New Jersey as follows:

WHEREAS, in accordance with the requirements of the Local Public Contract Law P.L. 2011, C.139 (the "Law" or "Chapter 139" and N.J.S.A.52:34-6.2 the regulations promulgated there under in Local Finance Notice LFN 2012-10, the following purchase without competitive bids from vendor with a Sourcewell National Cooperative is hereby approved for municipalities, and;

WHEREAS, the Township of Vernon has the need to procure certain firefighting equipment and accessories for a Pierce Enforcer Pumper for the Highland Lakes Fire Department purchase in accord with the Local Publics Contract Law N.J.S.A. 40A:11-1 et. Seq., and;

WHEREAS, the Township of Vernon has previously acted in accord with New Jersey public procurement statutes and regulations as promulgated by formally joining a recognized and compliant national cooperative, being the Sourcewell National Cooperative, and;

WHEREAS, the regulations as set forth within Local Finance Notice LFN 2012-10 have been fully complied with, and;

WHEREAS, the equipment and corresponding Sourcewell National Cooperative contract #113021-OKC for Pierce Products Inc; and

WHEREAS, the cost savings determination has been identified as required under LFN 2012-10; and

WHEREAS, the quoted cost from Fire & Safety Services Inc., 200 Ryan Street, South Plainfield, N.J. 07080, under the Sourcewell National Cooperative contract #113021-OKC, \$1,066,043.37 for a Pierce Enforcer Pumper; and

WHEREAS, the Chief Financial Officer has determined, and certified available funds are available in the amount of \$ 1,066,043.37 from line-Item C-04-25-009-00 Various Purpose Bond Ordinance;

NOW THEREFORE BE IT RESOLVED THAT, the Mayor is hereby authorized to effectuate the purchase of herein approved equipment with Fire & Safety Services under the provisions of Sourcewell national cooperative contract #113-021-OKC for the approved cost of \$1,066,043.37 for a Pierce Enforcer Pumper, in accord with the provisions of the tenets as established within the bid documents.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

VERNON TOWNSHIP

National Cooperative Form

NAME OF NATIONAL COOPERATIVE	CONTRACT NUMBER	ITEM OR SERVICE
Sourcewell	#113021-OKC	Enforcer Pumper
VENDOR	FIRE & SAFETY SERVICES 200 RYAN STREET SOUTH PLAINFIELD, NJ 07080	
DATES OF CONTRACT	Exp 2/10/2026	
DATE OF BID ADVERTISEMENT	October 12, 2021	
DATE OF BID OPENING	November 30, 2021	
RESOLUTION NUMBER/ DATE OF JOINING THE COOPERATIVE	5/14/2018	18-142
VENDOR COMPLIANCE	BUSINESS REGISTRATION	Y
	AFFIRMATIVE ACTION CEIR/ AA302?	Y
	OWNERSHIP	Y
	IRAN FORM	Y
SAVINGS COMPARISON	<u>QUOTED PRICE AND DETAILS</u> \$ 1,066,043.37 Pierce Enforcer Pumper and accessories	<u>COMPARABLE PRICE AND DETAILS</u> In examining anticipated market prices, the below are the best estimates as to anticipated costs should the SOURCEWELL process be used outside of the bid process combined with the discount offered by the Sourcewell cooperative as opposed to the lack of available discount available through state contract, as well as costs of bidding and hiring of consultant., combined with construction delays amount to a savings of: Cost Savings using SOURCEWELL

TOWNSHIP OF VERNON

RESOLUTION #25-225

**APPROVING A CHARITABLE SOLICITOR'S PERMIT: McAfee VOL. FIRE
DEPARTMENT**

WHEREAS, McAfee Vol. Fire Department has made application for a Charitable Roadside Solicitor's Permit for the purposes of soliciting funds on September 27-28, 2025 and October 18-19, 2025 from 8am to 4pm; and

WHEREAS, in accordance with Ordinance 18-12, the Vernon Township Police Department has reviewed the necessary application found that all documentation is in order.

NOW, THEREFORE, BE IT RESOLVED by the Township Council of the Township of Vernon that approval be granted for a Charitable Roadside Solicitor's Permit for McAfee Vol. Fire Department, 88 Hamburg McAfee Rd. (Route 94), Vernon, NJ 07462; subject to the approval of the County of Sussex and State of New Jersey as needed.

BE IT FURTHER RESOLVED that the Township Clerk is hereby authorized to issue a Charitable Roadside Solicitor's Permit to the aforesaid applicant in accordance with Chapter 428 of the Code of the Township of Vernon upon receipt of the approval from the County of Sussex.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						



RECEIVED

AUG 14 2025

Township Clerk

Vernon Township
Township Clerk's Office
21 Church Street
Vernon, NJ 07462
Tel: 973.764.4055, ext. 2234 • Fax: 973.764.6393
www.vernontwp.com

Charitable Solicitation Permit Application

Date of application: August 14, 2025	
Application type:	<input checked="" type="checkbox"/> New <input type="checkbox"/> Renewal
ORGANIZATION INFORMATION	
Name of Organization Represented McAfee Vol. Fire Department	Tel. Number 973-827-3080
Address 88 Hamburg McAfee Road (Rt. 94) Vernon, NJ 07462	
Name of individual directly in charge of conducting the solicitation: McAfee Fire Department - Matthew Metz	
Address of individual directly in charge of conducting the solicitation: 88 Hamburg McAfee Road (Rt. 94) Vernon, NJ 07462	
SOLICITATION INFORMATION	
Purpose of Solicitation Help Support a Non-Profit Organization	
Estimated amount of funds proposed to be raised: \$500 to \$1,000	
Specific statement showing the need for the solicitation: Help pay building operating expenses, purchasing of tools/equipment, and building refurbishments.	
Provide a brief outline of the method to be used on conducting the solicitation: One to two members at a time standing on both sides of State Highway Route 94 (Hamburg McAfee Road & McAfee Vernon Road) by intersection with County Route 517 (McAfee Glenwood Rd) in two different locations on Route 94 on the double yellow line with reflective safety vest and/or firefighting gear for safety holding a bucket(s) and collecting money as vehicles stop at traffic light to donate. There is also orange safety cones that stretch a couple feet on the double yellow lines of both sides of the intersection of Route 94 where members are standing and signage in the area in both directions notifying drivers of the fund/road drive ahead.	
SOLICITOR(S) INFORMATION	
Provide the name and address of every individual who will be making the proposed solicitation (<i>attach more paper if necessary</i>)	
Name	Address
1. See attached paper with all names	88 Hamburg McAfee Road (Rt. 94) Vernon, NJ 07462
2.	
3.	
4.	

Charitable Solicitation Permit Application
Continued page 2 of 2

Vernon Township
21 Church Street • Vernon, NJ 07462
Tel: 973.764.4055, ext. 2234 • Fax: 973.764.6393
www.vernontwp.com

DATE/TIME/DURATION INFORMATION

Provide the time and dates when the solicitation will be made, including the beginning and ending dates of the solicitation:

Saturday & Sunday September 27 - 28, 2025 8am to 4pm

Saturday & Sunday October 18 - 19, 2025 8am to 4pm

WAGE, FEE, COMMISSION, EXPENSE INFORMATION

Provide the amount of any wages, fees, commissions, or expenses to be paid to any person or organization for conducting the solicitation and the names and addresses of all such persons:

None. All volunteer organization.

Provide a full statement to the effect that if the permit is approved, it will not be used or represented in any way as an endorsement of the proposed solicitation by the township or by any of its officers or departments:

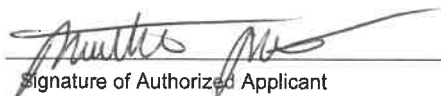
Will not be used for anything else except for the non profit agency/organization listed above.

Please provide a copy of the ruling from the Internal Revenue Service in which it determined that your organization is a charitable organization under the rules of the Internal Revenue Code so that donations made to your organization are tax deductible. If such determination has not been applied for, indicate whether your organization intends to seek such recognition.

I hereby certify that the information contained in this application is complete, accurate and truthful to the best of my knowledge and belief. I understand that if any statement made is willfully false or incomplete, I may be subject to penalties as provided by law and have this application denied.

I hereby acknowledge that the provisions of Chapter 428 of Vernon Township's code entitled "Peddling and Soliciting" are understood and that if I violate any of the provisions, I am subject to appropriate penalties and/or license revocation.

I consent to Vernon Township's obtaining copies of my driving record from the appropriate public agency and Criminal History Record Information from the New Jersey State Police, State Bureau of Identification.


Signature of Authorized Applicant

Print Name/Title

MATTHEW METZ - Dept. Member

Date

8-14-2025

FOR OFFICIAL USE ONLY

DATE REC'D						
CHIEF OF POLICE	<input type="checkbox"/> YES	<input type="checkbox"/> NO	DATE:	TOWNSHIP COUNCIL	<input type="checkbox"/> YES	<input type="checkbox"/> NO R #:
PERMIT ISSUED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	DATE:	PERMIT #		

Solicitor(s) Names for Permit Application

JEFF ANDERSEN
BUD BRAITSCH
KEN CLARK
MICHELE CLARK
CHARLES DALRYMPLE
JACK FARKAS
MATT FOUTCH
DAN GROS
STEPHANIE GROS
MATT HAMMER
CORRENE HAMMER
DAN LOVETT
WILLIAM MAYHAN
ANNMARIE MAYHAN
MATT METZ
BARBARA MEGGIOLARO
STEVEN MYERS
TOM O'BRIEN
TONI O'BRIEN
TIMMY PALLIS
MIKE PASSARO
TAMMY PASSARO
GEORGE ROSS
RICH SMITH
JACK SPEIGHT
JIM SHERIDAN
MATT SHERIDAN
DEB STORBECK
TOM STRAUBE
BETTY DECKER-VERKON
CASSANDRA WILLIAMSON
ROBIN WILLIAMSON



88 NJ-94
88 NJ-94, Vernon Town
41.18°N, 74.54°W

Faith With Love
Fellowship Church

McAfee Glenwood Rd

McAfee Vernon Rd

Hamburg Mc Afee Rd

Andrea Dr

Andrea Dr

88 NJ-94

3D

TOWNSHIP OF VERNON

RESOLUTION #25-226

RESOLUTION ACCEPTING AND APPROVING SUBMITTAL OF THE TOWNSHIP WATER USE AND CONSERVATION MANAGEMENT PLAN TO THE NEW JERSEY HIGHLANDS WATER PROTECTION AND PLANNING COUNCIL AS A COMPLETED TASK TOWARD CONFORMANCE WITH THE HIGHLANDS REGIONAL MASTER PLAN

WHEREAS, the Mayor and Council of the Township of Vernon charged the municipal Land Use Board with the task of developing a plan for the future use and conservation of the water resources of the municipality; and

WHEREAS, on August 13, 2025 the Vernon Township Land Use Board, pursuant to Article 3 of the New Jersey Municipal Land Use Law (MLUL) (N.J.S.A. 40:55D-1 et seq.), adopted the Vernon Township Water Use and Conservation Management Plan (WUCMP), said document prepared by Township Planner J. Caldwell & Associates, dated May 2023, as an element of the Township of Vernon Master Plan; and

WHEREAS, the Mayor and Council of the Township of Vernon find that the WUCMP adopted by the Land Use Board addresses the goals and intents of the governing body in requesting its preparation, that adoption and implementation of the plan serves the public interest, assists in protecting the public health and safety, and promotes the general welfare of the residents of the community.

NOW, THEREFORE BE IT RESOLVED, that the Mayor and Council of the Township of Vernon hereby accept the WUCMP as adopted by the Land Use Board and approve its submission to the New Jersey Highlands Council toward achieving full conformance with the provisions of the New Jersey Highlands Water Protection and Planning Act (N.J.S.A. 13:20-1 et seq.) and the Highlands Regional Master Plan.

Adopted:

ATTEST:

Township of Vernon

Marcy Gianattasio
Municipal Clerk

Anthony L. Rossi
Mayor

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Donna Coccio

From: Marcy Gianattasio
Sent: Thursday, August 14, 2025 12:19 PM
To: Town Clerk
Subject: Fwd: LUB Master Plan Update
Attachments: Vernon Township - 2025 WUCMP.pdf; 2025 Vernon Township Master Plan Reexamination Report 7.9.25.pdf; Signed Resolution 2025 Master Plan Update.pdf; Stewart House.pdf; Perry Farm (Bud Kelly).pdf; Perry Farm (Bud Kelly 2nd half).pdf; Signed Resolution (Perry Farm & Stewart House).pdf; Signed WUCMP Resolution.pdf

Marcy Gianattasio, Municipal Clerk

Begin forwarded message:

From: Kim Decker <kdecker@vernontwp.com>
Date: August 14, 2025 at 11:33:08 AM EDT
To: Marcy Gianattasio <mgianattasio@vernontwp.com>
Cc: "Jessica C. Caldwell (jcaldwell@jcaldwellassociates.com)" <jcaldwell@jcaldwellassociates.com>
Subject: LUB Master Plan Update

Good Morning Marcy,

The Land Use Board held a public hearing on July 9th, and memorialized resolutions on August 13th, for the Adoption of the Water Use and Conservation Management Plan, Adoption of Mater Plan Reexamination Report and amending the Historic Preservation Element of the Master Plan to add the Perry Farm and the Stewart House as Historic Sites. Please add this to you next Council meeting agenda.

Thank you!

Kimberley Decker
Vernon Township
Land Use Board Administrator
P ~ 973-764-4055 ext.2279
kdecker@vernontwp.com





Water Use and Conservation Management Plan

for

HUC142020007030010 – Wallkill R (41d13m30s to Martins Road)

HUC142020007030030 – Wallkill River (Owens gage to 41d13m30s)

HUC142020007030040 – Wallkill River (stateline to Owens gage)

HUC142020007040010 – Black Ck (above/incl G. Gorge Resort trib)

HUC142020007040020 – Black Creek (below G. Gorge Resort trib)

HUC142020007040030 – Pochuck Ck/Glenwood Lk & northern trib

HUC142020007040040 – Highland Lake/Wawayanda Lake

HUC142020007040050 – Wawayanda Creek & tribs

HUC142030103050010 – Pequannock R (above Stockholm/Vernon Rd)

HUC142030103050020 – Pacock Brook

July 9, 2025

This Plan was paid for by a grant from the New Jersey Highlands Council.

Water Use and Conservation Management Plan
Vernon Township, Sussex County, New Jersey

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Water Use and Conservation Management Plan
Vernon Township, Sussex County, New Jersey

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Water Use and Conservation Management Plan
Vernon Township, Sussex County, New Jersey

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Executive Summary

There are 183 subwatersheds within the Highlands Region and 10 subwatersheds in the Township of Vernon, Sussex County. One of the highest priority objectives described in the Highlands Water Protection and Planning Council's Regional Master Plan (RMP) is to protect, restore, and enhance water resources within the Highlands Region. To help achieve this objective, the Highlands Council requires municipalities within the Highlands Region to prepare Water Use and Conservation Management Plans (WUCMP) as part of conformance with the Highlands Regional Master Plan. Municipal Plan Conformance requires development of WUCMPs that will establish methods to reduce and, where feasible, eliminate water deficits in watersheds where they exist. The components included in this WUCMP are as follows:

- **WUCMP Area Characteristics** – Summarizes high level information such as land use capability/land cover, land use/zoning, major hydrologic features, geology, and soil characteristics.
- **Identification of Water Sources and Types** – The Highlands Region uses both groundwater and surface water for potable water supply. Additional uses include irrigation (including agricultural), commercial, industrial, and institutional.
- **Stakeholders** – A list of stakeholders who can assist in the implementation of the WUCMP.
- **Reevaluation of NWA (NWA)** – Original calculations of NWA were based on maximum water use in 2003. This analysis has been expanded to include available data from 2000- 2016 and has several refinements to the NWA computations, including incorporation of septic and sewer discharge into the NWA calculation and limiting the evaluation period to the summer months of June through September.
- **Anticipated Impacts of Climate Control on NWA** – The purpose of this section is to provide a summary of expected changes in atmospheric (temperature, precipitation) and hydrological conditions (snowfall, drought, groundwater, streamflow) for New Jersey and the Highlands Region including a qualitative assessment of potential impacts to groundwater recharge and availability.
- **Deficit Mitigation Strategies** – This section includes supply-side conservation measures (e.g., leak detection, water auditing, well network optimization) and demand-side conservation measures (such as high efficiency irrigation techniques, rainwater harvesting, and low-flow plumbing fixtures), review of reuse potential, and storage. While each WUCMP includes a comprehensive list of deficit mitigation strategies, it is understood the application of individual strategies will vary among municipalities. Municipalities may have additional strategies that are not included.
- **Funding Opportunities** – Approaches that may be available to fund the mitigation actions are specified within this plan.
- **Monitoring Plan** – Ongoing monitoring of water use and validation of the performance of mitigation actions are included in this plan.
- **Deficit Mitigation Implementation Plan** – Identification of deficit reduction targets, responsible parties, a schedule for action and implementation, and funding mechanisms are identified.

Water Use and Conservation Management Plan

Vernon Township, Sussex County, New Jersey

Summary of Vernon's Subwatersheds

The watersheds in Vernon which cover the planning area for this WUCMP are comprised of ten (10) subwatersheds (**Appendix B, Figure 2**) designated by Hydrologic Unit Code (HUC14) as follows:

- 2020007030010 – Wallkill R (41d13m30s to Martins Road)
- 2020007030030 – Wallkill River (Owens gage to 41d13m30s)
- 2020007030040 – Wallkill River (stateline to Owens gage)
- 2020007040010 – Black Ck (above/incl G. Gorge Resort trib)
- 2020007040020 – Black Creek (below G. Gorge Resort trib)
- 2020007040030 – Pochuck Ck/Glenwood Lk & northern trib
- 2020007040040 – Highland Lake/Wawayanda Lake
- 2020007040050 – Wawayanda Creek & tribs
- 2030103050010 – Pequannock R (above Stockholm/Vernon Rd)
- 2030103050020 – Pacock Brook

There are five (5) additional watersheds which intersect the Township: 2020007010070 – Wallkill R (Martins Rd to Hamburg SW Bdy); 2020007010050 – Wallkill River (above road to Martins); 2020007010030 – Wallkill River (above road to Martins); 203103050040 – Pequannock River; and 2020007040060 – Pochuck Creek. Withdrawals from Vernon Township are minimal relative to neighboring municipalities and a full evaluation of those subwatersheds has therefore been reserved for those municipalities. The only water purveyor for the Township is Veolia North America (“Veolia”). Veolia purchased the former water purveyor, Suez, in 2022.

NWA

The analysis of NWA for this planning area indicates the following variations in NWA between 2000 and 2016. NWA was originally calculated using maximum water withdrawals from 2003, which represented the most recently available compiled and checked data for use in the RMP. The NWA values for the subwatersheds in the Highlands Council Technical Report Water Resources Volume II Water Use and Availability (2008) for this WUCMP area are presented below.

Table 1. Summary of NWA Results

HUC14	NWA (MGD)	NWA Minimum (MGD)	NWA Maximum (MGD)
02020007030010: Wallkill R (41d13m30s to Martins Road)	-0.04	-0.006	-0.081
02020007030030: Wallkill River (Owens gage to 41d13m30s)	-0.004	-0.03	-0.03
02020007030040: Wallkill River (stateline to Owens gage)	-0.002	-0.043	-0.043
02020007040010: Black Ck (above/incl G. Gorge Resort trib)	-0.497	-0.304	-0.583
02020007040020: Black Creek (below G. Gorge Resort trib)	-0.176	-0.118	-0.387
02020007040030: Pochuck Ck/Glenwood Lk & northern trib	-0.006	-0.028	-0.032
02020007040040: Highland Lake/Wawayanda Lake	-0.003	-0.018	-0.06
02020007040050: Wawayanda Creek & tribs	0.006	-0.032	-0.044
02030103050010: Pequannock R (above Stockholm/Vernon Rd)	0.001	-0.021	-0.021
02030103050020: Pacock Brook	-0.005	-0.02	-0.023

MGD = million gallons per day

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Summary of Significant Causes of Deficit

A summary of significant causes of NWA deficits for each of the Township's ten (10) subwatersheds is as follows:

HUC14 02020007030010 (Wallkill R(41d13m30s to Martins Road) The primary driver behind the deficit in this HUC14 is consumptive use from domestic and public supply.

HUC14 02020007030030: Wallkill River (Owens gage to 41d13m30s) The only reported use within this HUC14 is from domestic supply.

HUC14 02020007030040: Wallkill River (stateline to Owens gage) The only reported use within this HUC14 is from domestic supply.

HUC14 02020007040010: Black Ck (above/incl G.Gorge Resort trib) Consumptive use is driven largely by public supply pumping by Veolia North America (formerly Suez New Jersey).

HUC14 02020007040020: Black Creek (below G. Gorge Resort trib) The driver behind the deficit in this HUC14 is domestic and public supply, although golf course irrigation that is reported in 2002 was the driver during that period.

HUC14 02020007040030: Pochuck Ck/Glenwood Lk & northern trib The driver behind the deficit within this HUC14 is domestic supply.

HUC14 02020007040040: Highland Lake/Wawayanda Lake The only reported use within this HUC14 is from domestic supply.

HUC14 02020007040050: Wawayanda Creek & tribs The driver behind the deficit within this HUC14 is domestic supply.

HUC14 02030103050010: Pequannock R (above Stockholm/Vernon Rd) The driver behind the deficit within this HUC14 is domestic supply.

HUC14 02030103050020: Pacock Brook The driver behind the deficit within this HUC14 is domestic supply.

Water Conservation and Deficit Reduction and Elimination Strategies

Based on the depletive and consumptive uses, the strategies discussed in this section have been identified for this area. The two HUC14s where the deficit is increasing (**02020007030010** and **02020007040010**) should be prioritized for implementation of water conservation and management measures. Specifically, water conservation approaches for these two subwatersheds should focus on water supply and residential irrigation as well as redevelopment of the former Legends Resort which should incorporate water-efficient and green technologies to conserve water and promote infiltration and recharge where possible.

The Township water supply is privately-owned by Veolia and as such, the remaining eight (8) subwatersheds, whose primary drivers of deficits are almost exclusively domestic supply, should emphasize conservation and deficit reduction strategies on the demand-side. This can be addressed through public education and outreach programs as follows:

- Public workshops
- School conservation programs
- Avoid overspray
- Community gardens

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- Irrigation conservation
- Irrigation system design
- Landscape design/landscape incentive programs
- Night watering
- Plumbing incentive program
- Assisted infiltration/enhanced recharge
- Modifications to zoning
- Retrofit existing detention basins

Attributes which were considered when choosing the most appropriate deficit reduction strategies include feasibility, effectiveness, resilience and reliability, reduction potential and market penetration, administrative complexity and availability of implementing entities, cost and cost effectiveness, and schedule. A complete ranking of these strategies is available in **Tables 28-33**.

Monitoring and Implementation Plans

The mitigation strategies selected to reduce the deficit in the Township's subwatersheds must be examined periodically. A biennial review of each strategy is proposed to be conducted to verify its effectiveness and a more detailed review is proposed every five years in order to update the NWA tables of this WUCMP. A monitoring form is attached to this report in **Appendix C**.

Establishing an implementation plan is critical to the WUCMP's success. Although elimination of any deficits does not have a specific timeline, progress towards deficit reduction is the intent of this WUCMP and the Highlands Council of New Jersey will ask for a periodic review of the implementation of this Plan every five years.

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Introduction

Purpose and Scope

The Highlands Regional Master Plan (RMP) requires that conforming municipalities develop a Water Use and Conservation Management Plan (WUCMP) that reflects the policies and objectives of the RMP. Specifically, conforming municipalities are required to develop WUCMPs “that will set priorities for the use of available water (where NWA is positive) and will establish methods to reduce and, where feasible, eliminate deficits where they exist”.¹

Additionally, State of New Jersey Executive Order #114 issued by Governor Jon S. Corzine, further requires non-conforming municipalities to develop a WUCMP. Otherwise, “The DEP shall take appropriate action to ensure that no water allocation permit is issued for any development project located in the Protection Zone, the Conservation Zone, or the Environmentally-Constrained Sub-Zones, as delineated in the Highlands Plan, within a HUC14 subwatershed that is in, or anticipated to be in, a deficit of NWA, as identified by the Highlands Plan, until such time that a Municipal Water Use and Conservation Management Plan, consistent with the policies in the Highlands Plan, has been approved by the Highlands Council and has been fully implemented.”²

Implementation of the RMP requires extensive cooperation among all municipal governing bodies and major water users and purveyors in the region. Conformance with the RMP is intended to align municipal and county plans, regulations and programs with the goals, policies, and objectives of the RMP, including preservation of the availability and quality of surface water and groundwater resources throughout the Highlands region.

One of the highest priority objectives of the RMP is to restore and protect water resources within the Highlands Region. The development of WUCMPs specific to HUC14 subwatersheds is intended to address the requirements of this objective in a practical way that is applicable to each subwatershed.

The RMP provides a method for determining how much water is routinely available for human use, as differentiated from water available for maintenance of ecosystem integrity and for maintenance of minimum levels in reservoirs and other surface water. This method determines NWA for each HUC14 subwatershed³. Where NWA is positive, future human use of water supply is supported. Where NWA is negative, action is needed to address the deficit. All ten (10) subwatersheds which are primarily used by Vernon Township have a negative NWA.

Areawide Water Quality Management Plans (WQMPs), Wastewater Management Plans (WMPs) or their amendments shall ensure that the proposed service area will not directly or indirectly cause or contribute to a NWA deficit and shall be in conformance with any Water Use and Conservation Plan. The NJDEP and the designated planning agencies shall periodically review areawide WQM plans in order to propose amendments as necessary. Amendments may be proposed for various reasons, such as to implement or comply with applicable State or Federal law; respond to new information or circumstances; improve the economic, social, or environmental impact of WQM plans; or address issues identified through the consistency assessment or permitting process.

¹ Highlands Regional Master Plan, (Highlands Council, 2008), p. 159.

² State of New Jersey Executive Order #114, September 2008. Retrieved from <https://nj.gov/infobank/circular/eojsc114.htm>

³ Highlands Regional Master Plan (Highlands Council, 2008), p. 160, Policy 2B2.

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Water Use and Conservation Management Plan (WUCMP)

Goals and Policy Overview

NWA is the total available groundwater minus consumptive and depletive water uses within a HUC14 subwatershed. NWA varies greatly from one area within the Highlands Region to another. Some areas have a water surplus (positive NWA) and others are in significant deficit (negative NWA). To reduce or eliminate the water deficits within the Region, WUCMPs are required under RMP Objective 2B8c:

Water Use and Conservation Management Plans shall be required through municipal Plan Conformance for all subwatersheds to meet the policies and objectives of Goal 2B, to ensure efficient use of water through water conservation and Low Impact Development Best Management Practices, and to avoid the creation of new deficits in NWA. Where developed for Current Deficit Areas, the plans shall include provisions to reduce or manage consumptive and depletive uses of ground and surface waters as necessary to reduce or eliminate deficits in NWA, or to ensure continued stream flows to downstream Current Deficit Areas from Existing Constrained Areas, to the maximum extent practicable within each HUC14 subwatershed. Water Use and Conservation Management Plans shall demonstrate through a detailed implementation plan and schedule how and when the current deficit will be resolved in a subwatershed prior to approval for new water uses in the subwatersheds with the most severe deficits (e.g., in excess of 0.25 million gallons per day or MGD), and the plan shall be implemented prior to initiation of new water uses.

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Implementation Strategy

Implementation of the goals, policies, and objectives of the RMP regarding water deficit restoration consists of the following components, which are incorporated into this WUCMP by subwatershed:

- Identify HUC14 subwatersheds that have a deficit of water availability or a surplus of water availability;
- Verify the NWA analysis and any associated deficits;
- Develop a Water Use and Conservation Management Plan for conforming municipalities, especially those whose water supply is in a deficit subwatershed;
- For complex systems or where the development of deficit reduction plans for multiple subwatersheds is more appropriate, collaborate with NJDEP and affected interests to develop Water Use and Conservation Management Plans at a larger scale; and
- Coordinate with NJDEP so that the water allocation permit process, including transfers of water between subwatersheds where required, supports the reduction and elimination of water deficits.

This WUCMP includes the following components:

- **Identification of water sources and uses** – The Highlands Region uses both groundwater and surface water for potable water supply. Additional uses include irrigation (including agricultural), commercial, industrial, and institutional.
- **Expanded evaluation of NWA (expanded from the original analysis in the RMP)** – Original calculations of NWA were based on maximum monthly water use in 2003. This analysis, prepared by CDM Smith, calculates NWA for the years 2000 through 2016 with additional water supply pumpage data and the most recent public supply water use data.
- **Deficit mitigation strategies** – This section includes water conservation measures, review of reuse potential, and storage alternatives.
- **Funding opportunities** – Approaches that may be available to fund the mitigation actions specified within this plan.
- **Monitoring plan** – Ongoing monitoring of water use and validation of the performance of mitigation actions.
- **Deficit reduction and elimination strategy and implementation plan** – identify deficit reduction targets, responsible parties, a schedule for action and implementation, and funding mechanisms.

Scope and Applicability

There are fourteen (14) subwatersheds which intersect Vernon Township, although the Township has a significant impact to NWA in ten (10) of those subwatersheds. Therefore, the focus of this WUCMP is focused on the following HUC14s:

- 2020007030010 – Wallkill R (41d13m30s to Martins Road)
- 2020007030030 – Wallkill River (Owens gage to 41d13m30s)
- 2020007030040 – Wallkill River (stateline to Owens gage)
- 2020007040010 – Black Ck (above/incl G. Gorge Resort trib)
- 2020007040020 – Black Creek (below G. Gorge Resort trib)
- 2020007040030 – Pochuck Ck/Glenwood Lk & northern trib
- 2020007040040 – Highland Lake/Wawayanda Lake
- 2020007040050 – Wawayanda Creek & tribs
- 2030103050010 – Pequannock R (above Stockholm/Vernon Rd)
- 2030103050020 – Paddock Brook

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The four (4) remaining HUC14s do not have any significant water withdrawals from Vernon Township and only a small portion of those HUC14s exist within the Vernon Township municipal boundaries. This is not to say that water use and conservation does not apply to those HUC14s, but rather that the applicable conservation measures would be limited to domestic supply within Vernon Township. As subwatersheds do not follow political boundaries, the HUC14s that are discussed within this WUCMP also extend beyond Vernon Township and include portions of surrounding municipalities (Wantage Township, Hardyston Township, and West Milford Township). Because Vernon Township is responsible for managing only its own portion of the water resources within these HUC14s, the analysis and recommendations herein deal only with that portion.

WUCMP Area Characteristics

Background

Vernon Township is located in Sussex County, New Jersey and covers approximately 69.96 square miles. Per the United States 2020 Decennial Census, the Township has a population of 22,358. The area included in this WUCMP consists of ten (10) subwatersheds designated by Hydrologic Unit Code (HUC14) as follows:

- 2020007030010 – Wallkill R (41d13m30s to Martins Road)
- 2020007030030 – Wallkill River (Owens gage to 41d13m30s)
- 2020007030040 – Wallkill River (stateline to Owens gage)
- 2020007040010 – Black Ck (above/incl G. Gorge Resort trib)
- 2020007040020 – Black Creek (below G. Gorge Resort trib)
- 2020007040030 – Pochuck Ck/Glenwood Lk & northern trib
- 2020007040040 – Highland Lake/Wawayanda Lake
- 2020007040050 – Wawayanda Creek & tribs
- 2030103050010 – Pequannock R (above Stockholm/Vernon Rd)
- 2030103050020 – Pacock Brook

The Township is primarily undeveloped with the exception of the Vernon Town Center, various lake communities, and other clusters of development along Route 94 and other major roads. A Land Use / Land Cover map is attached as **Figure 3**.

Land Use Capability Zones

The Highlands Region is classified into three Land Use Capability Zones (LUCZ) of which Vernon has area within all three. **Figure 4** shows the Land Use Capability Map for Vernon Township.

- **Protection Zone** – Areas having high value in terms of forested resources, critical habitat, water quality and quantity, and ecological function, and having limited or no capacity to support human development without adversely affecting the overall ecological function of the Highlands Region. This zone has one sub-zone, Wildlife Management.
 - ⇒ Vernon Township has approximately 29,470 acres (67.6%) within the Protection Zone. 5,147 acres (11.8%) are identified as Wildlife Management Area.
- **Existing Community Zone** – Areas characterized by extensive and intensive existing development that may have capacity to support additional human development without adversely affecting the ecological value of the Highlands Region. This zone has two sub-zones: Existing Community Environmentally Constrained and Lake Community.
 - ⇒ Vernon Township has approximately 2,973 acres (6.8% of the Township area) of its land within the Existing Community Zone. The Township has 570 acres (1.3%) within the Existing

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Community Environmentally Constrained Subzone and 845 acres (1.9%) in the Lake Community Subzone.

- **Conservation Zone** – Areas that have significant agricultural along with wooded and environmental areas which should be preserved to the extent possible. This zone has one sub-zone: the Conservation Environmentally-Constrained Subzone. Conservation Environmentally-Constrained areas have significant environmental features that should be preserved and protected from non-agricultural development.
 - ⇒ Vernon Township has approximately 395 acres (0.9% of the Township area) of its land within the Conservation Zone. The Township has approximately 4,192 acres (9.6%) of its land within the Conservation Environmentally-Constrained Subzone.

Preservation and Planning Areas

In addition to Land Use Capability Zones, the Highlands Region is subdivided into Preservation and Planning Areas. Preservation Areas are critical to water resource protection and Planning Areas have more existing development and are less environmentally constrained for further development. A summary of the goals for both the Preservation and Planning Areas is shown in **Table 2**. Approximately 67 percent of the Township is in the Preservation Area and the remaining 33 percent is in the Planning Area (**Figure 5**).

Table 2. Preservation and Planning Area Goals

Goals Specific to the Preservation Area	Goals Specific to the Planning Area
Preserve extensive and, to the maximum extent possible, contiguous areas of land in its natural state, thereby ensuring the continuation of Highlands environment which contains the unique and significant natural, scenic, and other resources representative of the Highlands Region	Preserve to the maximum extent possible any environmentally sensitive lands and other lands needed for recreation and conservation purposes
Protect the natural, scenic, and other resources of the Highlands Region, including, but not limited to, contiguous forests, wetlands, vegetated stream corridors, steep slopes, and critical habitat for fauna and flora	Protect and maintain the essential character of the Highlands environment
Promote compatible agricultural, horticultural, recreational, and cultural uses and opportunities within the framework of protecting the Highlands environment	Promote the continuation and expansion of agricultural, horticultural, recreational, and cultural uses and opportunities
Prohibit or limit, to the maximum extent possible, construction or development which is incompatible with preservation of this unique area	Encourage, consistent with the State Development and Redevelopment Plan and smart growth strategies and principles, appropriate patterns of compatible residential, commercial, and industrial development, redevelopment, and economic growth, in or adjacent to areas already utilized for such purposes; discourage piecemeal, scattered, and inappropriate development, in order to accommodate local and regional growth and economic development in an orderly way while protecting the Highlands environment from the individual and cumulative adverse impacts thereof
	Promote a sound, balanced transportation system that is consistent with smart growth strategies and principles and which preserves mobility in the Highlands Region

Land Use

Land use data representing 2015 conditions of Vernon Township were obtained from the New Jersey Department of Environmental Protection (NJDEP). Based on this dataset, the land use / land cover within the Township is comprised of the following uses: Forest (64.4%), Wetlands (14.6%), Urban (14.1%), Water (3.7%), Agriculture (3.1%), and Barren Land (0.1%). **Figure 3** illustrates these land uses and covers in relationship to HUC14 subwatersheds.

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The WUCMP area is primarily forest, wetlands, and residential land (**Table 3**). Due to the layout and density of the Township, the area can generally be described as rural. Clusters of residential development are primarily situated around lakes, and most commercial development is clustered in neighborhood commercial areas near population areas, particularly the Vernon Town Center, which is located in the central portion of the Township. Additionally, Mountain Creek Resort and several golf courses are located along State Route 94 in the south-central portion of the Township.

Zoning districts in Vernon, which are serviced by the HUC14 subwatersheds in this WUCMP include: agri-eco tourism; conservation districts; commercial and resort commercial zones; mountain resource; mixed-use zones including the Town Center District; private lake communities; and rural, medium, and high density residential zones

Table 3. Land Use/Land Cover (2015)

Type	Acres	% of Total Land
Forest	36,372.84	64.4%
Wetlands	8,235.78	14.6%
Urban	7,975.00	14.1%
Water	2,075.84	3.7%
Agriculture	1,724.80	3.1%
Barren Land	80.00	0.1%
Total	56,464.26	100%

Figure 6 identifies impervious surfaces according to 2015 NJDEP data. Most of the subwatersheds are primarily pervious coverage (less than 5% impervious coverage), with clusters of impervious surfaces being located around residential and commercial areas along major roads or in residential lake communities.

Major Hydrologic Features

Vernon Township has approximately two square miles of lakes within the community, some of which have been identified as high priorities for water protection. The largest lake in the Township is Highland Lake, which is situated in the Highland Lake / Wawayanda Lake watershed. Other major hydrologic features within the Township include Canistear Reservoir and Wawayanda Lake. **Figure 7** illustrates major hydrologic features within the Township.

Geology and Soil Properties

Vernon is entirely within the Highlands Region, with approximately two-thirds of the Township's land located in the Preservation Area. The Highlands Physiographic Province, formed during the Precambrian Era, consists of igneous and metamorphic rocks in a series of ridges and valleys. In Vernon, the Highlands Physiographic Province is separated from the neighboring Valley and Ridge Physiographic province by Pochuck Mountain in the northwestern portion of the Township. The Highlands Physiographic Province is characterized by granite, gneiss, and marble and contains the oldest bedrock in the State. Resistant to erosion, this bedrock resulted in steep valleys and major streams formed by more sedimentary bedrock. The Highlands also contain magnetite iron ore deposits. Mesoproterozoic rocks such as marble and granite are generally unproductive as aquifers except when fractured or weathered⁴. **Figure 8** identifies bedrock geology present throughout the Township.

There are 42 primary soil types present within the Township. Of those 42 soil types, only ten (10) soils comprise approximately 83.4% of the Township's total land (**Table 4**). Hydrologic soil groups are based on runoff potential. "Soils are assigned to one of four groups according to the rate of water infiltration when the soils are

⁴ NJDEP – NJGWS – Bedrock Geologic Map of New Jersey, Scale 1:1,000,000, and Bedrock Geology of New Jersey, (2016), p. 1-2.

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not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms”⁵. According to the United States Department of Agriculture, the following are descriptions of these soil groups:

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.

Most of the soils present in the Township are in Groups B or D. Group B soils have a moderate infiltration rate and Group D soils have a very slow infiltration rate.

Table 4. Primary Soil Types within Vernon Township

Soil Symbol	Map Unit Name	Hydrologic Group	Acres in Township	Percent of Township Land
HncD	Hollis-Rock outcrop-Chatfield complex, New Jersey Highlands, 15 to 35 percent slopes	B/D	9,150.60	20.40%
ChkE	Chatfield-Hollis-Rock outcrop complex, New Jersey Highlands, 35 to 60 percent slopes	B/D	8,044.60	18.00%
ChkC	Chatfield-Hollis-Rock outcrop complex, 0 to 15 percent slopes	C/D	5,328.90	11.90%
RokD	Rockaway-Chatfield-Rock outcrop complex, 15 to 35 percent slopes	B/C/D	2,721.10	6.10%
CatbA	Catden muck, 0 to 2 percent slopes	B/D	2,256.80	5.00%
HdxbBb	Hazen-Paulins Kill complex, 3 to 8 percent slopes, very stony	A	2,078.30	4.60%
RnfD	Rock outcrop-Farmington-Galway complex, 15 to 35 percent slopes	C/D	2,046.10	4.60%
PduoEb	Paulins Kill-Otisville complex, 25 to 60 percent slopes, very stony	A	1,953.00	4.40%
FrdAb	Fredon-Halsey complex, 0 to 3 percent slopes, very stony	B/D	1,906.90	4.30%
RokC	Rockaway-Chatfield-Rock outcrop complex, 8 to 15 percent slopes	C/D	1,816.70	4.10%
Subtotal			37,303.00	83.40%
RokB	Rockaway-Chatfield-Rock outcrop complex, 0 to 8 percent slopes	C/D	828.8	1.90%
AhcBc	Alden mucky silt loam, gneiss till substratum, 0 to 8 percent slopes, extremely stony	C/D	741.4	1.70%
HhmBc	Hibernia loam, 0 to 8 percent slopes, extremely stony	C	559.2	1.20%
UdauB	Udorthents-Urban land complex, 0 to 8 percent slopes	D	498.9	1.10%
HdxbAb	Hazen-Paulins Kill complex, 0 to 3 percent slopes, very stony	A	469.8	1.00%
FaxC	Farmington-Rock outcrop complex, 0 to 15 percent slopes	D	426.2	1.00%
RnfC	Rock outcrop-Farmington-Galway complex, 8 to 15 percent slopes	C/D	410.6	0.90%
WaahAt	Wallkill silt loam, 0 to 3 percent slopes, frequently flooded	B/D	409.8	0.90%
UdaB	Udorthents, 0 to 8 percent slopes, smoothed	D	246.9	0.60%
FdwB	Farmington-Wassaic-Rock outcrop complex, 0 to 8 percent slopes	C/D	214.4	0.50%
RoefBc	Rockaway loam, thin fragipan, 0 to 8 percent slopes, extremely stony	C	206.5	0.50%

⁵ United States Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS), Web Soil Survey, Description – Hydrologic Soil Group and Surface Runoff.

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RoefCc	Rockaway loam, thin fragipan, 8 to 15 percent slopes, extremely stony	C	142.1	0.30%
PHG	Pits, sand and gravel	-	134.1	0.30%
SwfCc	Swartswood loam, 8 to 15 percent slopes, extremely stony	B	92.1	0.20%
WusBc	Wurtsboro-Swartswood complex, 0 to 8 percent slopes, extremely stony	B/C	55.9	0.10%
RooC	Rockaway-Urban land complex, thin fragipans, 0 to 15 percent slopes	C	53.9	0.10%
RoefDc	Rockaway loam, thin fragipan, 15 to 35 percent slopes, extremely stony	C	46.1	0.10%
QY	Pits, quarry	D	42.5	0.10%
WusCc	Wurtsboro-Swartswood complex, 8 to 15 percent slopes, extremely stony	B/C	38.9	0.10%
FmhAs	Fluvaquents, loamy, 0 to 3 percent slopes, occasionally flooded	B/D	37.3	0.10%
USFARC	Urban land-Farmington-Rock outcrop complex, 0 to 15 percent slopes	D	33.3	0.10%
WusDc	Wurtsboro-Swartswood complex, 15 to 35 percent slopes, extremely stony	B/C	28.5	0.10%
SwfDc	Swartswood loam, 15 to 35 percent slopes, extremely stony	B	23.5	0.10%
USFAR D	Urban land-Farmington-Rock outcrop complex, 0 to 35 percent slopes	D	20.3	0.00%
AhbBc	Alden silt loam, 0 to 8 percent slopes, extremely stony	C/D	19.3	0.00%
VepBc	Venango silt loam, 0 to 8 percent slopes, extremely stony	D	18.5	0.00%
PohA	Pompton sandy loam, 0 to 3 percent slopes	A/D	17.3	0.00%
ScoA	Scio silt loam, 0 to 3 percent slopes	B/D	14.2	0.00%
RooB	Rockaway-Urban land complex, thin fragipans, 0 to 8 percent slopes	C	13.7	0.00%
PduaCb	Paulins Kill-Hazen complex, 8 to 15 percent slopes, very stony	A	10.4	0.00%
SwfBc	Swartswood loam, 0 to 8 percent slopes, extremely stony	B	2	0.00%
RooD	Rockaway-Urban land complex, thin fragipans, 0 to 25 percent slopes	C	0.8	0.00%

Source: USDA NRCS Web Soil Survey

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Identification of Water Sources And Uses

Water System Profile

Description and Facilities

Vernon Township is served by Veolia North America, with 15 wells located throughout the Township.

Allocation and Firm Capacity

Table 5 lists the existing public groundwater wells in this WUCMP area.

“Firm capacity” is defined as the adequate pumping equipment and/or treatment capacity (excluding coagulation, flocculation and sedimentation) to meet peak daily demand, when the largest pumping unit or treatment unit is out of service. The value is represented in million gallons per day (MGD). Subtracting the total peak daily demand from the firm capacity may result in a water supply deficit (when the total peak is greater than firm capacity) or a surplus.

“Allocation limit” is defined as the maximum allowed by a valid Water Allocation Permit or Water Use Registration issued by the Bureau of Water Allocation and Well Permitting. This may be surface or groundwater, and may be expressed in MGD, million gallons per month (MGM), million gallons per year (MGY) or some combination thereof. Withdrawals may also be limited by other factors and have seasonal or other restrictions such as passing flow requirements.⁶

Firm capacity and allocation are based on the entire water system, not each individual well and as such, there may be wells outside of the particular HUC14 subwatershed that are included within the water system, and thus the allocation and firm capacity numbers.

Table 5. Public Water Facilities in Vernon Township

Public Water Systems in Vernon Township			
PWSID	Water System Name	Allocation (MGM)	Firm Capacity (MGD)
NJ1922001	VEOLIA WATER NEW JERSEY BARRY LAKES	-0.079	0.003
NJ1922004	VEOLIA WATER NEW JERSEY CLIFFWOOD LAKES	0.498	-0.005
NJ1922005	VEOLIA WATER NJ GRANDVIEW ESTATES	-0.059	-0.031
NJ1922006	VEOLIA WATER NEW JERSEY SUSSEX HILLS	0.129	0.016
NJ1922008	AQUA NJ – VERNON	0.911	0.155
NJ1922010	VEOLIA WATER NEW JERSEY LAKE GLENWOOD	0.732	0.018
NJ1922011	VEOLIA WATER NEW JERSEY SUNSET RIDGE	0.915	0.079
NJ1922012	VEOLIA WATER NEW JERSEY LAKE CONWAY	0.353	0.017
NJ1922013	VEOLIA WATER NEW JERSEY DAVID CURTIS	-0.012	-0.008
NJ1922015	VEOLIA WATER NEW JERSEY WALNUT HILLS	-0.012	-0.008
NJ1922017	VEOLIA WATER NEW JERSEY HIGHLAND LAKES	0.592	0.013
NJ1922021	VEOLIA WATER NEW JERSEY PREDMORE ESTATES	0.443	0.024
NJ1922022	VEOLIA WATER NEW JERSEY SAMMIS ROAD	-0.253	-0.005
NJ1922026	VEOLIA WATER NEW JERSEY VERNON VALLEY	1.068	0.244
NJ1922027	HIDDEN VILLAGE CONDO ASSOCIATION	1.215	0.032

⁶ NJ DEP, Division of Water Supply and Geoscience. “Public Water System Deficit/Surplus.” <https://www.state.nj.us/dep/watersupply/pws.html>

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Source: NJ DEP, Division of Water Supply and Geoscience. "Public Water System Deficit/Surplus."

Remaining Firm Capacity

The Remaining Firm Capacity of the 15 public community water systems in this WUCMP are as follows, according to NJDEP's Public Water System Deficit/Surplus database⁷. If remaining firm capacity is listed as a negative number, then a water supply deficit exists for that water system. Six (6) of the Township's 15 water systems are reported to have a deficit.

Table 6. Analysis of Remaining Capacity

Analysis of Remaining Capacity				
PWSID	Water System Name	Peak Daily Demand (MGD)	Firm Capacity (MGD)	Remaining Capacity (MGD)
NJ1922001	VEOLIA WATER NEW JERSEY BARRY LAKES	0.017	0.003	0.014
NJ1922004	VEOLIA WATER NEW JERSEY CLIFFWOOD LAKES	0.005	-0.005	0.01
NJ1922005	VEOLIA WATER NJ GRANDVIEW ESTATES	0.022	-0.031	0.053
NJ1922006	VEOLIA WATER NEW JERSEY SUSSEX HILLS	0.026	0.016	0.01
NJ1922008	AQUA NJ – VERNON	0.071	0.155	-0.084
NJ1922010	VEOLIA WATER NEW JERSEY LAKE GLENWOOD	0.026	0.018	0.008
NJ1922011	VEOLIA WATER NEW JERSEY SUNSET RIDGE	0.021	0.079	-0.058
NJ1922012	VEOLIA WATER NEW JERSEY LAKE CONWAY	0.012	0.017	-0.005
NJ1922013	VEOLIA WATER NEW JERSEY DAVID CURTIS	0.008	-0.008	0.016
NJ1922015	VEOLIA WATER NEW JERSEY WALNUT HILLS	0.010	-0.008	0.018
NJ1922017	VEOLIA WATER NEW JERSEY HIGHLAND LAKES	0.004	0.013	-0.009
NJ1922021	VEOLIA WATER NEW JERSEY PREDMORE ESTATES	0.012	0.024	-0.012
NJ1922022	VEOLIA WATER NEW JERSEY SAMMIS ROAD	0.031	-0.005	0.036
NJ1922026	VEOLIA WATER NEW JERSEY VERNON VALLEY	0.600	0.244	0.356
NJ1922027	HIDDEN VILLAGE CONDO ASSOCIATION	0.011	0.032	-0.021

Source: NJ DEP, Division of Water Supply and Geoscience. "Public Water System Deficit/Surplus."

Wastewater Management

Description

Vernon Township is serviced by the Vernon Township Municipal Utilities Authority, established by ordinance in May of 2011, and through a contract with the Sussex County Municipal Utilities Authority. Vernon is specifically serviced through the Upper Wallkill Pollution Control Facility, which is located in Hardyston. This facility is an advanced secondary treatment facility, which has a permitted discharge of 3 million gallons per day (MGD). In 2010, construction of a 265,000 GPD expansion was completed to accommodate the wastewater treatment needs of the Vernon Town Center and Mountain Creek Resort.⁸

Stakeholders

Potential stakeholders within these subwatersheds include the following:

- Municipal governments of Vernon Township and Wantage Township;
- Vernon Township Municipal Utilities Authority;
- Sussex County Municipal Utilities Authority;
- Residents of Vernon Township and Wantage Township; and

⁷ NJDEP, Division of Water Supply and Geoscience, Public Water System Deficit/Surplus Database. Updated March 14, 2023. Retrieved from <https://www.state.nj.us/dep/watersupply/pws.html>

⁸Sussex County Municipal Utilities Authority. "Wastewater Facility." <https://www.scmua.org/Cit-e-Access/webpage.cfm?TID=121&TPID=11906>

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- Mountain Creek Resort in Vernon Township.

While subwatersheds **02020007030010**, **02020007040010**, **02030103050010**, **02030103050020**, and **02020007040050** all include a small portion of either Hardyston or West Milford, the WUCMP area does not play a meaningful role in water use. Therefore, Hardyston and West Milford are not listed as stakeholders above.

Analysis of NWA

Introduction

NWA is Groundwater Availability minus consumptive and depletive water uses. Groundwater Availability is the portion of Groundwater Capacity that can be provided for human use without harm to other groundwater users, aquatic ecosystems or downstream users. The Highlands RMP defines Groundwater Capacity based on the Low Flow Margin component of the Low Flow Margin of Safety Method. Low Flow Margin and Groundwater Availability are discussed below.

On a municipal basis, NWA is calculated for subwatersheds that are either entirely within the municipality where the municipality has significant (non-domestic) withdrawals in a portion of the subwatershed. For subwatersheds that are within a particular municipality that only has domestic water withdrawals but another municipality has more significant (public supply wells, for example) withdrawals, the onus of NWA will be assigned to the municipality with the more significant withdrawals. For subwatersheds that intersect Vernon Township (Vernon) and have withdrawals outside the Vernon municipal boundary, the domestic withdrawals for only Vernon were compiled.

This analysis includes subwatersheds that not only cross municipal boundaries but also extend beyond the Highlands Region. The RMP calculated NWA for these types of subwatersheds by using an area weighted factor. So, if only 10 percent of the area of a subwatershed is within the Highlands Region, the low flow margin (and hence groundwater availability) and consumptive use are reduced by 90 percent for the NWA analysis. While this approach is appropriate for a regional analysis, for a municipal based plan, the NWA for the entire subwatershed is calculated and the management of the water resource is determined by the relative consumptive use of the municipality.

Low Flow Margin

Low Flow Margin is the margin between two stream low flow statistics: September median flow and seven (7) day-ten-year low flow (7Q10). Low Flow Margin is derived for each HUC14 subwatershed using data from streams in a relatively unaltered state. The 7Q10 is the lowest total flow over seven consecutive days during a ten-year period. It has been used in quantifying passing flow requirements. The 7Q10 is also often used to define an extreme low flow condition for water quality based effluent limits applied to wastewater discharges. A critical flow regime for aquatic ecosystems is the lowest monthly flow, which in New Jersey and the Highlands tends to occur in September. The Low Flow Margin is the difference between 7Q10 and September median flow, which in the Highlands is always a positive sum.⁹

Low Flow Margin is used to calculate Groundwater Capacity, or the natural ability of the watershed to support base flow. Groundwater Capacity is derived from Low Flow Margin, but is adjusted for the consumptive uses incorporated into the stream flow statistics used to derive Low Flow Margin. Groundwater Capacity equals Low Flow Margin multiplied by 1.02, based on a USGS study that showed existing consumptive uses are roughly 2 percent of Low Flow Margin.

Groundwater Availability

Groundwater Availability is that portion of Groundwater Capacity that is available for human uses, absent other constraints.⁶ The following threshold values were established by the Highlands Council (**Table 7**):

⁹ Highlands Council Technical Report, Water Resources Volume II Water Use and Availability” (Highlands Council, 2008), p. 46.

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Table 7. Groundwater Availability Thresholds as Percentage of Groundwater Capacity

Land Use Capability Zone	Standard Threshold Capability
Protection Zone	5% LFM
Conservation Zone	5% LFM (non-agriculture) 10% LFM (agriculture)
Existing Community Zone	20% LFM

The subwatersheds addressed by this WUCMP are within the Protection Zone, so according to the rules established in the Highlands RMP and Technical Report Vol. II, Groundwater Capacity is multiplied by 5 percent to arrive at Groundwater Availability. Groundwater Availability for the ten (10) subwatersheds covering Vernon are presented below in **Table 8**.

Table 8. Groundwater Availability

HUC14 Description	Groundwater Availability (MGD)
2020007030010 - Wallkill R(41d13m30s to Martins Road)	0.0597 ¹
2020007030030 - Wallkill River(Owens gage to 41d13m30s)	0.0215 ¹
2020007030040 - Wallkill River(stateline to Owens gage)	0.0267 ¹
2020007040010 - Black Ck(above/incl G.Gorge Resort trib)	0.0488
2020007040020 - Black Creek (below G. Gorge Resort trib)	0.1348
2020007040030 - Pochuck Ck/Glenwood Lk & northern trib	0.0327
2020007040040 - Highland Lake/Wawayanda Lake	0.0344
2020007040050 - Wawayanda Creek & tribs	0.1039
2030103050010 - Pequannock R (above Stockholm/Vernon Rd)	0.0312
2030103050020 - Pacock Brook	0.0480

1. RMP Groundwater Availability for this HUC14 is lower in the RMP. A portion of this HUC14 extends beyond the Highlands and the RMP reduced the Groundwater Availability to only the portion of the HUC14 which is within the Highlands.

Net Water Availability

Calculation of NWA

NWA is Groundwater Availability minus any consumptive and depletive uses within the subwatersheds. When NWA is positive, groundwater supply is available for human uses. When NWA is negative, insufficient groundwater is available to support additional human use.

Consumptive water use is defined as water that is lost within the subwatersheds and is not returned as recharge or as discharge to a stream within the subwatersheds. An example of a consumptive use is irrigation, in which most of the water evaporates and does not recharge the aquifer system. Depletive water uses are those in which water is exported out of the subwatersheds. A typical example of depletive use is conveyance of wastewater out of the subwatersheds to a wastewater treatment plant that discharges in another subwatershed.

NWA was originally calculated using maximum water withdrawals from 2003, which represented the most recently available compiled and checked data for use in the RMP. The NWA values for the subwatersheds in the Highlands Council Technical Report Water Resources Volume II Water Use and Availability (2008) for this WUCMP area are presented below in **Table 9**.

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Table 9. Published NWA

HUC14 Description	NWA (MGD)
2020007030010 - Wallkill R(41d13m30s to Martins Road)	-0.0405*
2020007030030 - Wallkill River(Owens gage to 41d13m30s)	-0.0037*
2020007030040 - Wallkill River(stateline to Owens gage)	-0.0023*
2020007040010 - Black Ck(above/incl G.Gorge Resort trib)	-0.4967
2020007040020 - Black Creek (below G. Gorge Resort trib)	-0.1762
2020007040030 - Pochuck Ck/Glenwood Lk & northern trib	-0.0055
2020007040040 - Highland Lake/Wawayanda Lake	-0.0031
2020007040050 - Wawayanda Creek & tribs	-0.0031
2030103050010 - Pequannock R (above Stockholm/Vernon Rd)	0.0010
2030103050020 - Pacock Brook	0.0055

*Value represents the Groundwater Availability for only the area of the HUC14 that is located within the Highlands Region, based on an area analysis.

This total published NWA reflects a deficit of approximately 0.72 million gallons per day.

As part of this analysis, updates to the NWA calculation were performed for these subwatersheds to adjust for the following:

- Partitioning potable demands into groundwater-based demands versus augmented surface-based demands;
- Incorporation of additional years of water diversion data (obtained from NJDEP and Vernon Township);
- Incorporation of additional years of wastewater discharge data;
- Calculating NWA for the entire subwatershed and allocating responsibility of deficit mitigation by consumptive use;
- Assessment of additional wastewater returns beyond Highlands Domestic Sewerage Facilities (HDSFs); and
- Selection of specific maximum diversions months to coincide with LFM target months

Groundwater uses within these subwatersheds are predominantly for potable use, through domestic groundwater and public community supply, with public community supply use far exceeding that of domestic groundwater. However, groundwater use for golf course irrigation is also prevalent. There are surface water withdrawals relating to irrigation of golf courses (e.g., those associated with Crystal Springs Resort) reported within the subwatersheds.

NWA is calculated for each subwatershed based on the maximum total groundwater withdrawals for the months of June, July and August for each year. For surface water withdrawals, the month of September is always used.

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Water Supply

Public Community Supply

Following is a summary of Public Community and Non-Community Supply withdrawals within these subwatersheds for the period 2000-2016 (**Table 10**):

Table 10. Water Supply Withdrawals

HUC/Water Purveyor	Category	Withdrawals ¹	
		Peak Summer Month	Peak Withdrawal (MGD)
HUC14 02020007030010: Wallkill R (41d13m30s to Martins Road)			
SUEZ New Jersey	Potable Supply	June 2000	0.038
Regency at Sussex Associates	Potable Supply	July 2013	0.033
Simmons Water Company, Inc.	Potable Supply	August 2001	0.037
Tall Timbers, Inc.	Potable Supply	June 2009	0.345
HUC14 02020007040010: Black Ck(above/incl G.Gorge Resort trib)			
Hardyston Township MUA	Potable Supply	August 2011	0.094
Metairie Corporation	Potable Supply	August 2002	0.229
SUEZ New Jersey	Potable Supply	August 2015	0.598
HUC14 02020007040020: Black Creek (below G. Gorge Resort trib)			
Metairie Corporation	Non-Community	August 2014	0.082
Mountain Creek, Inc.	Potable Supply	July 2012	0.254
SUEZ New Jersey	Potable Supply	July 2001	0.075
Vernon Township Board of Education	Potable Supply	June 2010	0.018
HUC14 02020007040030: Pochuck Ck/Glenwood Lk & northern trib			
Vernon Township Board of Education	Potable Supply	June 2000	0.020
HUC14 02020007040040: Highland Lake/Wawayanda Lake			
SUEZ New Jersey	Potable Supply	August 2013	0.034
HUC14 02020007040050: Wawayanda Creek & tribs			
SUEZ New Jersey	Potable Supply	June 2014	0.019
HUC14 02030103050020: Paddock Brook			
SUEZ New Jersey	Potable Supply	July 2001	0.01

1. These represent maximum withdrawals by purveyor for the months of June, July, August from 2000-2016. The months shown don't necessarily match the month where the maximum pumping occurs within the HUC14 as this table is public supply only (irrigation, commercial, etc., not represented here). If a HUC14 is not listed, then it does not contain public supply pumping. MGD = million gallons per day; NC = Non-Community

Domestic Well Groundwater Usage

Domestic Well Groundwater Usage is an estimate of private well withdrawals within the subwatersheds for areas not served by the public supply. Domestic withdrawals were updated for each watershed by utilizing the domestic withdrawals in the New Jersey Department of Environmental Protection (NJDEP) / New Jersey Geological Survey (NJGS) Water Transfer Model (WTM). The values for domestic withdrawals represent the average July values from 2000 to 2013. Values used in the RMP were calculated based on population estimates for the subwatersheds from the 2000 Census, multiplied by a factor of 100 gallons per person per day. Values in the WTM were utilized instead in order to apportion the domestic usage by municipality, which is not included in the RMP. Domestic groundwater usage is shown in **Table 11**.

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Table 11. Domestic Groundwater Usage¹

HUC	Domestic Groundwater Usage (MGD)
2020007030010 - Wallkill R(41d13m30s to Martins Road)	0.269
2020007030030 - Wallkill River(Owens gage to 41d13m30s)	0.16
2020007030040 - Wallkill River(stateline to Owens gage)	0.266
2020007040010 - Black Ck(above/incl G.Gorge Resort trib)	0.185
2020007040020 - Black Creek (below G. Gorge Resort trib)	0.606
2020007040030 - Pochuck Ck/Glenwood Lk & northern trib	0.233
2020007040040 - Highland Lake/Wawayanda Lake	0.247
2020007040050 - Wawayanda Creek & tribs	0.55
2030103050010 - Pequannock R (above Stockholm/Vernon Rd)	0.198
2030103050020 - Pacock Brook	0.262
TOTAL	2.976

1. Withdrawals represent total domestic withdrawals within the entire subwatershed

Golf Course Irrigation

Golf course irrigation within these subwatersheds is summarized below in **Table 12**.

Table 12. Irrigation Water Usage

HUC	Owner	Water Source	Peak Summer Month	Peak Withdrawal (MGD)
02020007040010	Great Gorge Country Club & Golf Course	Surface Water	September 2005	0.0867
	Mountain Creek, Inc.	Surface Water	September 2007	0.0507
02050007040020	Mountain Creek, Inc.	Groundwater	August 2002	0.2813
		Surface Water	August 2016 ¹	0.0405

Industrial

Water usage for industrial operations is a substantial portion of use within one of the subwatersheds in the study area. Water usage for industrial operations within these subwatersheds is summarized below in **Table 13**.

Table 13. Water Usage for Industrial Operations

HUC	Owner	Water Source	Peak Summer Month	Peak Withdrawal (MGD)
02020007030010	Tennessee Gas Pipeline Co. 300 Line Project	Groundwater	June 2010/2011	0.0133
02020007030010	Hamburg Quarry			0.0951

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Municipal Consumptive/Depletive Uses

Groundwater models used in support of the Highlands Regional NWA analysis show that the impact on September stream flows of consumptive/depletive (C/D) groundwater use during the summer is not 1:1, but roughly 1:0.9.¹⁰ In other words, 1 gallon of C/D water use is calculated to reduce Groundwater Availability in September by 0.9 gallons. Therefore, groundwater use (raw pumpage) during the summer month with the highest demand was multiplied by 0.9 to reflect this impact. The factor is not applied to surface water diversions, which are based on September withdrawals that have an immediate impact on stream flows.

Consumptive water uses such as irrigation are further adjusted using consumptive use coefficients. In many instances, the water is not conveyed a long distance through a water utility network. Therefore, it is assumed that the withdrawal, use, and discharge occur in the same location. Consumptive use coefficients reflect the percentage of the consumptive use that is lost and is not returned to the aquifer.¹¹

For public community water uses, the calculation of consumptive and depletive uses must consider the possible import/export of water, and the potential return of the water as a wastewater discharge. In these situations, consumptive/depletive use in the portion of the water supply service area that is coincident with a wastewater service area is associated with the wastewater discharge from that sewerage area. Any remainder of the consumptive use is allocated among the areas on public water service that discharge to individual septic systems. Water exported to a different subwatershed, such as a wastewater treatment plant, are considered depletive. Depletive uses, by their nature, have an effective consumptive use coefficient of 1.0.

Septic return is calculated using GIS and the latest available existing areas served (EAS) coverages for public water and wastewater provided by the Highlands Council, as of 2016. Parcel coverages obtained from the New Jersey Geographic Information Network (NJGIN) were clipped by the public water EAS coverage to obtain the number of parcels served by public water. Using that coverage, parcels that have their centroids within the wastewater EAS were selected and classified as sewerage parcels. The remaining are served by public water, but not public sewer, so septic return is assigned to those parcels. Total pumping and a non-consumptive use from each purveyor are calculated and the non-consumptive use per parcel is calculated based on the number of parcels within a particular water system. This parcel based non-consumptive use is then multiplied by the number of non-sewerage parcels within each particular HUC14 to estimate septic return.

Revised NWA

As part of this analysis, revisions to the NWA calculation were conducted to include more recent public supply water use data.

NWA was calculated for each year from 2000-2016, incorporating additional water supply pumpage data from users in the subwatersheds. Pumping during summer months is typically greatest and has the largest impact on September base flow, which is used in calculating NWA. Therefore, maximum aggregate monthly water usage from June, July or August was used to calculate updated C/D use for these subwatersheds.

Consumptive use from public supply accounts for water that is not returned to the subwatershed. So, for instances where a system has a treated wastewater return to a surface water, that return directly offsets the consumptive use. If instead of the individual wastewater treatment plant the sewage is transported outside of that particular subwatershed, instead of offsetting consumptive public supply, that flow becomes depletive. A good example of depletive water is the portion of wastewater discharge from the Sussex County Municipal Utilities Authority (MUA) Upper Wallkill Valley Water Control Facility that is pumped up to Vernon Township to promote groundwater recharge. While HUC14 02020007010070 (Wallkill R (Martins Rd to Hamburg SW

¹⁰ Highlands Council Technical Report, "Water Resources Volume II Water Use and Availability" (Highlands Council, 2008), p. 116.

¹¹ Highlands Council Technical Report, "Water Resources Volume II Water Use and Availability" (Highlands Council, 2008), p. 119.

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Bdy)) receives the benefit of treated sanitary discharge from the facility, a portion of that is pumped back to Vernon Township within HUC14 02020007040010.

NWA is shown on **Tables 14** through **23**. A general summary for each of the ten (10) subwatersheds is described below.

HUC14 02020007030010 (Wallkill R(41d13m30s to Martins Road) was published in the RMP as having a deficit of 40,500 gallons per day. This HUC is divided between Vernon and Wantage Townships, and a portion of this HUC14 lies outside the Highlands Region, which borders the western boundary of Vernon Township. Prior estimates of Non-Ag Groundwater Availability were based on the area percentage located within Highlands Region. For the purposes of the calculations contained herein, we have used the Groundwater Availability of the entire HUC14 and calculated Vernon Township's contribution by consumptive use.

This HUC14 has water supply wells within both Wantage Township and Vernon Township. Although there are wells in both townships that are owned by Veolia New Jersey, there are also wells in Wantage owned by Simmons Water Company and Regency at Sussex Association. Regency at Sussex Association also has a reported wastewater discharge to an unnamed stream within the HUC14. In order to determine how much of the deficit Vernon Township is responsible for, the total consumptive use for wells within Vernon Township was compared to the total consumptive use of the entire HUC14.

Based on this revised analysis, the entire HUC14 averages a deficit of 0.0239 MGD (23,900 gallons per day), which represents a reduction in the published deficit of 40,500 gallons per day.

As this HUC14 is divided between Wantage and Vernon Townships, the NWA for this HUC14 was previously calculated based on an area percentage which is within the Highlands (47.27%). Based on available data between 2000-2016, Vernon accounts for an average of 65 percent of the consumptive use within this HUC14, or 65 percent of the deficit (15,000 gallons per day).

HUC14 02020007030030 was published in the RMP as having a deficit of 0.0037 MGD (3,700 gallons per day). This HUC14 also extends into Wantage Township, although there are no community public supply wells within the HUC14, so distributing responsibility for deficit reduction is solely based on consumptive use for domestic pumping in Wantage and Vernon. Using the higher domestic pumpage values in the WTM, the NWA deficit increases to 0.0301 MGD (30,100 gallons per day) for the entire HUC14, covering both Vernon and Wangage. Vernon accounts for an average of 83.5% of the total withdrawals. As the entire HUC14 is in a deficit of 30,100 gallons per day, Vernon's deficit responsibility is approximately 25,000 gallons per day.

HUC14 02020007030040 has a published deficit of 0.0023 MGD, or 2,300 gallons per day. Similar to HUC14 02020007030030, this HUC14 also extends into Wantage Township and only has domestic groundwater supply comprising consumptive use. Using the WTM values for domestic pumpage, the NWA indicates a deficit for the entire HUC14 of 0.0427 MGD (42,700 gallons per day). The increased deficit from 0.0023 MGD (2,330 gallons per day) is due to utilizing the higher domestic pumpage values from the WTM.

Vernon accounts for an average of 52.7 percent of the total withdrawals. The entire HUC14 is in a deficit of 42,700 gallons per day, so that would account for Vernon's deficit responsibility to 23,000 gallons per day.

HUC14 02020007040010 has a published deficit of 0.4967 MGD or 496,700 gallons per day. As a result of this new evaluation, the HUC14 remains in deficit, averaging 0.388 MGD. NWA ranges from a deficit of 0.3038 to 0.5826 MGD.

This HUC14 also has a very small wastewater discharge to groundwater from the Legends Resort and Golf Club, likely from people who took up residence within the former hotel. It has since been shut down and is

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currently abandoned. A portion of the treated sanitary effluent (approximately 111,000 gallons per day) from the Sussex County Municipal Utilities Authority (SCMUA) Upper Walkill Valley Water Pollution Control Facility has been recharging this HUC14 since 2014 which helps offset consumptive use from 2014.

From a water resources management perspective, the water supply well in Hardyston (which became active in 2011) and domestic pumping within Hardyston (in this HUC14) accounts for approximately 15% of the of the consumptive use within this HUC14 between 2011-2016. Therefore, Vernon accounts for 85% of the NWA deficit, or 0.3298 MGD.

HUC14 02020007040020 has a published deficit of 0.1762 MGD, or 176,200 gallons per day. Based on the revised analysis, the deficit has increased to 189,100 gallons per day, indicating an increasing trend over time (e.g., deficit becoming larger). This HUC14 is entirely within Vernon Township. There is a wastewater return to groundwater reported from Lounsberry Hollow Middle School from 2000-2011 from the WTM, but more recent data are not reported. The wastewater return is generally more than an order of magnitude lower than the deficit. If the returns between 2012 and 2016 are similar to reported returns from earlier years, the impact to the deficit is minimal.

HUC14 02020007040030 has a published mild deficit in the RMP of 0.0055 MGD. This HUC14 is entirely within Vernon Township and includes a wastewater return to groundwater from Vernon Township High School. As a result of this new evaluation, the HUC14 averages a deficit of 0.0296 MGD (29,600 gallons per day). The increased deficit is a result of utilizing higher domestic pumpage values from the WTM.

HUC14 02020007040040 has a published mild deficit of 0.0031 MGD and is entirely within Vernon Township within the Highland Lakes area. As a result of this new evaluation, the HUC14 averages a deficit of 0.0344 MGD (34,400 gallons per day) between 2011-2016, which represent the most representative years as pumping for the Highland Lakes system is included. The increase in the deficit is due to the inclusion of these public supply wells, which were not active during the time the RMP was developed in addition to utilizing WTM domestic pumping values. The deficit appears to be increasing over time.

HUC14 02020007040050 has a mild deficit in the RMP of 0.0031 MGD. As a result of this new evaluation, the HUC14 averages a deficit of 0.0349 MGD (34,900 gallons per day). The increased deficit is largely a function of the higher domestic pumping (as compared to the RMP) within this HUC14. Although a small portion of this HUC14 extends into West Milford Township, the consumptive use for West Milford Township only accounts for 4% of the average consumptive use. Therefore, Vernon Township accounts for 96% of the deficit (or 0.0335 MGD).

HUC14 02030103050010 has a published surplus of 0.001 MGD (1,000 gallons per day) and is within Vernon and Hardyston Townships. Evaluating this HUC14 in its entirety and using the WTM values for domestic pumpage, the HUC14 is in deficit of 0.0205 MGD (20,500 gallons per day). Evaluating domestic withdrawals within this HUC14 from the two municipalities from July of 2000-2013, Vernon accounts for an average of 92.2% of the total withdrawals and is therefore responsible for 92.2% of the deficit (or 18,900 gallons per day).

HUC14 02020007040050 has a published surplus of 0.0055 MGD and is within Vernon, West Milford and Hardyston Townships (**Figure 2**). As a result of this new evaluation, the HUC14 averages a deficit of 0.0214 MGD (21,400 gallons per day). The deficit results from utilizing the withdrawals from the entire HUC14 and the WTM values for domestic pumpage. Based on average consumptive use, Vernon accounts for 83% of the total consumptive use and is responsible for 83% of the deficit, or 0.0156 MGD.

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Table 1-4. Re-evaluated NWA - 02020007030010: Walkkill R (41d1m30s to Martins Road)

Year Published	Non-Ag Groundwater Availability (MGD)	Consumptive Domestic Use (MGD)	Consumptive Public Supply (MGD)	Other Consumptive (MGD)	Total Non-Ag Consumptive Use (MGD) ¹	Non-Ag NWA (MGD) ²
	0.0282	0.0404	0.1049	0.0000	0.145	-0.0405
2000	0.0597	0.0581	0.0167	0.0000	0.075	-0.0152
2001	0.0597	0.0581	0.0144	0.0000	0.073	-0.0129
2002	0.0597	0.0702	0.0278	0.0000	0.098	-0.0384
2003	0.0597	0.0581	0.0254	0.0000	0.084	-0.0239
2004	0.0597	0.0702	0.0279	0.0000	0.098	-0.0385
2005	0.0597	0.0702	0.0293	0.0000	0.099	-0.0398
2006	0.0597	0.0702	0.0298	0.0000	0.100	-0.0404
2007	0.0597	0.0581	0.0470	0.0000	0.105	-0.0455
2008	0.0597	0.0581	0.0087	0.0000	0.067	-0.0071
2009	0.0597	0.0581	0.0826	0.0000	0.141	-0.0810
2010	0.0597	0.0581	0.0120	0.0012	0.071	-0.0117
2011	0.0597	0.0581	0.0115	0.0012	0.071	-0.0111
2012	0.0597	0.0581	0.0099	0.0000	0.068	-0.0083
2013	0.0597	0.0581	0.0121	0.0000	0.070	-0.0105
2014	0.0597	0.0581	0.0099	0.0000	0.068	-0.0083
2015	0.0597	0.0581	0.0102	0.0000	0.068	-0.0087
2016	0.0597	0.0581	0.0075	0.0000	0.066	-0.0060

¹ [Adjusted Consumptive Domestic Use] + [Consumptive Public Supply Use] + [Total Non-Ag Consumptive Use from Surface Water] + [Other Non-Ag Consumptive Use from Groundwater].

² [Non-Ag Groundwater Availability] – [Total Non-Ag Consumptive Use] + [Imported Septic Return]

³ Occurs when there is an import of water which is returned to the HUC through septic return

"Missing Data": One or more sources of data were not reported.

"N/A": One or more of the components to C/D use is missing and C/D use and NWA could not be calculated.

Refer to Appendix for further explanation of terms.

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Table 15. Re-evaluated NWA - 02020007030030; Wallkill River (Owens gage to 41d13m30s)

Year Published	Non-Ag Groundwater Availability (MGD)	Consumptive Domestic Use (MGD)	Consumptive Public Supply (MGD)	Other Consumptive (MGD)	Total Non-Ag Consumptive Use (MGD) ¹	Non-Ag NWA (MGD) ²
	0.0153	0.0267	0.0000	0.0000	0.027	-0.0037
2000	0.0215	0.0516	0.0000	0.0000	0.052	-0.0301
2001	0.0215	0.0516	0.0000	0.0000	0.052	-0.0301
2002	0.0215	0.0516	0.0000	0.0000	0.052	-0.0301
2003	0.0215	0.0516	0.0000	0.0000	0.052	-0.0301
2004	0.0215	0.0516	0.0000	0.0000	0.052	-0.0301
2005	0.0215	0.0516	0.0000	0.0000	0.052	-0.0301
2006	0.0215	0.0516	0.0000	0.0000	0.052	-0.0301
2007	0.0215	0.0516	0.0000	0.0000	0.052	-0.0301
2008	0.0215	0.0516	0.0000	0.0000	0.052	-0.0301
2009	0.0215	0.0516	0.0000	0.0000	0.052	-0.0301
2010	0.0215	0.0516	0.0000	0.0000	0.052	-0.0301
2011	0.0215	0.0516	0.0000	0.0000	0.052	-0.0301
2012	0.0215	0.0516	0.0000	0.0000	0.052	-0.0301
2013	0.0215	0.0516	0.0000	0.0000	0.052	-0.0301
2014	0.0215	0.0516	0.0000	0.0000	0.052	-0.0301
2015	0.0215	0.0516	0.0000	0.0000	0.052	-0.0301
2016	0.0215	0.0516	0.0000	0.0000	0.052	-0.0301

¹ [Adjusted Consumptive Domestic Use] + [Consumptive Public Supply Use] + [Total Non-Ag Consumptive Use from Surface Water] + [Other Non-Ag Consumptive Use from Groundwater].

² [Non-Ag Groundwater Availability] – [Total Non-Ag Consumptive Use] + [Imported Septic Return]

³ Occurs when there is an import of water which is returned to the HUC through septic return

"Missing Data": One or more sources of data were not reported.

"N/A": One or more of the components to C/D use is missing and C/D use and NWA could not be calculated.

Refer to Appendix for further explanation of terms.

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Table 16. Re-evaluated NWA: 02020007030040: Wallkill River (stateline to Owens gage)

Year Published	Non-Ag Groundwater Availability (MGD)	Consumptive Domestic Use (MGD)	Consumptive Public Supply (MGD)	Other Consumptive (MGD)	Total Non-Ag Consumptive Use (MGD) ¹	Non-Ag NWA (MGD) ²
	0.0158	0.0307	0.0000	0.0000	0.031	-0.0023
2000	0.0267	0.0694	0.0000	0.0000	0.069	-0.0427
2001	0.0267	0.0694	0.0000	0.0000	0.069	-0.0427
2002	0.0267	0.0694	0.0000	0.0000	0.069	-0.0427
2003	0.0267	0.0694	0.0000	0.0000	0.069	-0.0427
2004	0.0267	0.0694	0.0000	0.0000	0.069	-0.0427
2005	0.0267	0.0694	0.0000	0.0000	0.069	-0.0427
2006	0.0267	0.0694	0.0000	0.0000	0.069	-0.0427
2007	0.0267	0.0694	0.0000	0.0000	0.069	-0.0427
2008	0.0267	0.0694	0.0000	0.0000	0.069	-0.0427
2009	0.0267	0.0694	0.0000	0.0000	0.069	-0.0427
2010	0.0267	0.0694	0.0000	0.0000	0.069	-0.0427
2011	0.0267	0.0694	0.0000	0.0000	0.069	-0.0427
2012	0.0267	0.0694	0.0000	0.0000	0.069	-0.0427
2013	0.0267	0.0694	0.0000	0.0000	0.069	-0.0427
2014	0.0267	0.0694	0.0000	0.0000	0.069	-0.0427
2015	0.0267	0.0694	0.0000	0.0000	0.069	-0.0427
2016	0.0267	0.0694	0.0000	0.0000	0.069	-0.0427

¹ [Adjusted Consumptive Domestic Use] + [Consumptive Public Supply Use] + [Total Non-Ag Consumptive Use from Surface Water] + [Other Non-Ag Consumptive Use from Groundwater].

² [Non-Ag Groundwater Availability] - [Total Non-Ag Consumptive Use] + [Imported Septic Return]

³ Occurs when there is an import of water which is returned to the HUC through septic return

"Missing Data": One or more sources of data were not reported.

"N/A": One or more of the components to C/D use is missing and C/D use and NWA could not be calculated.

Refer to Appendix for further explanation of terms.

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Table 17. Re-evaluated NWA: 02020007040010: Black Ck (above/ incl G.Gorge Resort trib)

Year Published	Non-Ag Groundwater Availability (MGD)	Consumptive Domestic Use (MGD)	Consumptive Public Supply (MGD)	Other Consumptive (MGD)	Total Non-Ag Consumptive Use (MGD) ¹	Non-Ag NWA (MGD) ²
	0.0488	0.0312	0.4690	0.0000	0.546	-0.4967
2000	0.0488	0.0536	0.2995	0.0003	0.353	-0.3046
2001	0.0488	0.0536	0.3190	0.0003	0.373	-0.3241
2002	0.0488	0.0536	0.2869	0.0121	0.353	-0.3038
2003	0.0488	0.0536	0.2785	0.0435	0.376	-0.3268
2004	0.0488	0.0536	0.4564	0.0165	0.527	-0.4777
2005	0.0488	0.0536	0.4998	0.0780	0.631	-0.5826
2006	0.0488	0.0536	0.3662	0.0465	0.466	-0.4175
2007	0.0488	0.0536	0.3231	0.0690	0.446	-0.3969
2008	0.0488	0.0536	0.3659	0.0181	0.438	-0.3888
2009	0.0488	0.0536	0.4041	0.0199	0.478	-0.4288
2010	0.0488	0.0536	0.3657	0.0569	0.476	-0.4274
2011	0.0488	0.0536	0.3922	0.0096	0.455	-0.4066
2012	0.0488	0.0536	0.2989	0.0005	0.353	-0.3041
2013	0.0488	0.0536	0.3573	0.0000	0.411	-0.3621
2014	0.0488	0.0536	0.3353	0.0022	0.391	-0.3423
2015	0.0488	0.0536	0.4109	0.0043	0.469	-0.4199
2016	0.0488	0.0536	0.3519	0.0255	0.431	-0.3822

¹ [Adjusted Consumptive Domestic Use] + [Consumptive Public Supply Use] + [Total Non-Ag Consumptive Use from Surface Water] + [Other Non-Ag Consumptive Use from Groundwater].

Negative values indicate an import of water, due to a sanitary discharge which exceeds public supply withdrawals.

² [Non-Ag Groundwater Availability] - [Total Non-Ag Consumptive Use] + [Imported Septic Return]

³ Occurs when there is an import of water which is returned to the HUC through septic return or direct wastewater return to surface water

"Missing Data": One or more sources of data were not reported.

"N/A": One or more of the components to C/D use is missing and C/D use and NWA could not be calculated.

Refer to Appendix for further explanation of terms.

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Table 18. Re-evaluated NWA: 02020007040020: Black Creek (below G. Gorge Resort trib)

Year Published	Non-Ag Groundwater Availability (MGD)	Consumptive Domestic Use (MGD)	Consumptive Public Supply (MGD)	Other Consumptive (MGD)	Total Non-Ag Consumptive Use (MGD) ¹	Non-Ag NWA (MGD) ²
	0.1348	0.0916	0.1310	0.0091	0.311	-0.1762
2000	0.1348	0.1582	0.1082	0.0064	0.273	-0.1380
2001	0.1348	0.1582	0.1346	0.0077	0.300	-0.1656
2002	0.1348	0.1582	0.1344	0.2294	0.522	-0.3871
2003	0.1348	0.1582	0.0925	0.0105	0.261	-0.1264
2004	0.1348	0.1582	0.0828	0.0115	0.252	-0.1176
2005	0.1348	0.1582	0.1358	0.0120	0.306	-0.1711
2006	0.1348	0.1582	0.0942	0.0137	0.266	-0.1312
2007	0.1348	0.1582	0.1116	0.0148	0.285	-0.1498
2008	0.1348	0.1582	0.1259	0.0138	0.298	-0.1630
2009	0.1348	0.1582	0.1212	0.0111	0.290	-0.1557
2010	0.1348	0.1582	0.1165	0.0193	0.294	-0.1592
2011	0.1348	0.1582	0.1292	0.0209	0.308	-0.1734
2012	0.1348	0.1582	0.2139	0.0103	0.382	-0.2475
2013	0.1348	0.1582	0.1760	0.0126	0.347	-0.2119
2014	0.1348	0.1582	0.2216	0.0150	0.395	-0.2599
2015	0.1348	0.1582	0.1990	0.0166	0.374	-0.2389
2016	0.1348	0.1582	0.1712	0.0231	0.352	-0.2176

¹ [Adjusted Consumptive Domestic Use] + [Consumptive Public Supply Use] + [Total Non-Ag Consumptive Use from Surface Water] + [Other Non-Ag Consumptive Use from Groundwater].

² [Non-Ag Groundwater Availability] – [Total Non-Ag Consumptive Use] + [Imported Septic Return]

³ Occurs when there is an import of water which is returned to the HUC through septic return.

“Missing Data”: One or more sources of data were not reported.

“N/A”: One or more of the components to C/D use is missing and C/D use and NWA could not be calculated.

Refer to Appendix for further explanation of terms.

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Table 19. Re-evaluated NWA: 02020007040030 (Pachuck Creek/Glenwood Lk & northern trib)

Year Published	Non-Ag Groundwater Availability (MGD)	Consumptive Domestic Use (MGD)	Consumptive Public Supply (MGD)	Other Consumptive (MGD)	Total Non-Ag Consumptive Use (MGD) ¹	Non-Ag NWA (MGD) ²
	0.0327	0.0341	0.0042	0.0000	0.038	-0.0055
2000	0.0327	0.0608	0.0037	0.0000	0.065	-0.0319
2001	0.0327	0.0608	0.0000	0.0000	0.061	-0.0281
2002	0.0327	0.0608	0.0020	0.0000	0.063	-0.0302
2003	0.0327	0.0608	0.0018	0.0000	0.063	-0.0299
2004	0.0327	0.0608	0.0022	0.0000	0.063	-0.0303
2005	0.0327	0.0608	0.0021	0.0000	0.063	-0.0302
2006	0.0327	0.0608	0.0015	0.0000	0.062	-0.0296
2007	0.0327	0.0608	0.0017	0.0000	0.063	-0.0299
2008	0.0327	0.0608	0.0018	0.0000	0.063	-0.0300
2009	0.0327	0.0608	0.0019	0.0000	0.063	-0.0300
2010	0.0327	0.0608	0.0016	0.0000	0.062	-0.0298
2011	0.0327	0.0608	0.0012	0.0000	0.062	-0.0294
2012	0.0327	0.0608	0.0010	0.0000	0.062	-0.0291
2013	0.0327	0.0608	0.0007	0.0000	0.062	-0.0289
2014	0.0327	0.0608	0.0006	0.0000	0.061	-0.0288
2015	0.0327	0.0608	0.0007	0.0000	0.062	-0.0288
2016	0.0327	0.0608	0.0005	0.0000	0.061	-0.0286

¹ [Adjusted Consumptive Domestic Use] + [Consumptive Public Supply Use] + [Total Non-Ag Consumptive Use from Surface Water] + [Other Non-Ag Consumptive Use from Groundwater].

² [Non-Ag Groundwater Availability] – [Total Non-Ag Consumptive Use] + [Imported Septic Return]

³ Occurs when there is an import of water which is returned to the HUC through septic return

"Missing Data": One or more sources of data were not reported.

"N/A": One or more of the components to C/D use is missing and C/D use and NWA could not be calculated.

Refer to Appendix for further explanation of terms.

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Table 20. Re-evaluated NWA: 02020007040040 (Highland Lake/Wawayanda Lake)

Year Published	Non-Ag Groundwater Availability (MGD)	Consumptive Domestic Use (MGD)	Consumptive Public Supply (MGD)	Other Consumptive (MGD)	Total Non-Ag Consumptive Use (MGD) ¹	Non-Ag NWA (MGD) ²
	0.0344	0.0376	0.0000	0.0000	0.038	-0.0031
2000	0.0344	0.0645	0.0000	0.0000	0.064	-0.0181
2001	0.0344	0.0645	0.0015	0.0000	0.066	-0.0211
2002	0.0344	0.0645	0.0026	0.0000	0.067	-0.0202
2003	0.0344	0.0645	0.0000	0.0000	0.064	-0.0300
2004	0.0344	0.0645	0.0000	0.0000	0.064	-0.0300
2005	0.0344	0.0645	0.0000	0.0000	0.064	-0.0300
2006	0.0344	0.0645	0.0000	0.0000	0.064	-0.0300
2007	0.0344	0.0645	0.0000	0.0000	0.064	-0.0300
2008	0.0344	0.0645	0.0000	0.0000	0.064	-0.0300
2009	0.0344	0.0645	0.0000	0.0000	0.064	-0.0300
2010	0.0344	0.0645	0.0000	0.0000	0.064	-0.0300
2011	0.0344	0.0645	0.0119	0.0000	0.076	-0.0419
2012	0.0344	0.0645	0.0185	0.0000	0.083	-0.0485
2013	0.0344	0.0645	0.0163	0.0000	0.081	-0.0463
2014	0.0344	0.0645	0.0128	0.0000	0.077	-0.0428
2015	0.0344	0.0645	0.0295	0.0000	0.094	-0.0595
2016	0.0344	0.0645	0.0278	0.0000	0.092	-0.0578

¹ [Adjusted Consumptive Domestic Use] + [Consumptive Public Supply Use] + [Total Non-Ag Consumptive Use from Surface Water] + [Other Non-Ag Consumptive Use from Groundwater].

² [Non-Ag Groundwater Availability] - [Total Non-Ag Consumptive Use] + [Imported Septic Return]

³ Occurs when there is an import of water which is returned to the HUC through septic return

"Missing Data": One or more sources of data were not reported.

"N/A": One or more of the components to C/D use is missing and C/D use and NWA could not be calculated.

Refer to Appendix for further explanation of terms.

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Table 21. Re-evaluated NWA: 02020007040050 (Wawayanda Creek & tribs)

Year Published	Non-Ag Groundwater Availability (MGD)	Consumptive Domestic Use (MGD)	Consumptive Public Supply (MGD)	Other Consumptive (MGD)	Total Non-Ag Consumptive Use (MGD) ¹	Non-Ag NWA (MGD) ²
	0.1039	0.0872	0.0107	0.0000	0.098	-0.0031
2000	0.1039	0.1436	0.0039	0.0000	0.147	-0.0436
2001	0.1039	0.1436	0.0029	0.0000	0.146	-0.0426
2002	0.1039	0.1436	0.0025	0.0000	0.146	-0.0422
2003	0.1039	0.1436	0.0032	0.0000	0.147	-0.0429
2004	0.1039	0.1436	0.0025	0.0000	0.146	-0.0422
2005	0.1039	0.1436	0.0039	0.0000	0.147	-0.0436
2006	0.1039	0.1436	0.0031	0.0000	0.147	-0.0428
2007	0.1039	0.1436	0.0035	0.0000	0.147	-0.0432
2008	0.1039	0.1436	0.0040	0.0000	0.148	-0.0437
2009	0.1039	0.1436	0.0032	0.0000	0.147	-0.0429
2010	0.1039	0.1436	0.0035	0.0000	0.147	-0.0432
2011	0.1039	0.1436	0.0027	0.0000	0.146	-0.0358
2012	0.1039	0.1436	0.0031	0.0000	0.147	-0.0318
2013	0.1039	0.1436	0.0024	0.0000	0.146	-0.0344
2014	0.1039	0.1436	0.0040	0.0000	0.148	-0.0330
2015	0.1039	0.1436	0.0029	0.0000	0.146	-0.0364
2016	0.1039	0.1436	0.0033	0.0000	0.147	-0.0352

¹ [Adjusted Consumptive Domestic Use] + [Consumptive Public Supply Use] + [Total Non-Ag Consumptive Use from Surface Water] + [Other Non-Ag Consumptive Use from Groundwater].

² [Non-Ag Groundwater Availability] – [Total Non-Ag Consumptive Use] + [Imported Septic Return]

³ Occurs when there is an import of water which is returned to the HUC through septic return

"Missing Data": One or more sources of data were not reported.

"N/A": One or more of the components to C/D use is missing and C/D use and NWA could not be calculated.

Refer to Appendix for further explanation of terms.

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Table 22. Re-evaluated NWA: 02030103050010 (Pequanack R (above Stockbridge/Vernon Rd))

Year Published	Non-Ag Groundwater Availability (MGD)	Consumptive Domestic Use (MGD)	Consumptive Public Supply (MGD)	Other Consumptive (MGD)	Total Non-Ag Consumptive Use (MGD) ¹	Non-Ag NWA (MGD) ²
	0.0312	0.0513	0.0000	0.0000	0.030	0.0010
2000	0.0312	0.0517	0.0000	0.0000	0.052	-0.0205
2001	0.0312	0.0517	0.0000	0.0000	0.052	-0.0205
2002	0.0312	0.0517	0.0000	0.0000	0.052	-0.0205
2003	0.0312	0.0517	0.0000	0.0000	0.052	-0.0205
2004	0.0312	0.0517	0.0000	0.0000	0.052	-0.0205
2005	0.0312	0.0517	0.0000	0.0000	0.052	-0.0205
2006	0.0312	0.0517	0.0000	0.0000	0.052	-0.0205
2007	0.0312	0.0517	0.0000	0.0000	0.052	-0.0205
2008	0.0312	0.0517	0.0000	0.0000	0.052	-0.0205
2009	0.0312	0.0517	0.0000	0.0000	0.052	-0.0205
2010	0.0312	0.0517	0.0000	0.0000	0.052	-0.0205
2011	0.0312	0.0517	0.0000	0.0000	0.052	-0.0205
2012	0.0312	0.0517	0.0000	0.0000	0.052	-0.0205
2013	0.0312	0.0517	0.0000	0.0000	0.052	-0.0205
2014	0.0312	0.0517	0.0000	0.0000	0.052	-0.0205
2015	0.0312	0.0517	0.0000	0.0000	0.052	-0.0205
2016	0.0312	0.0517	0.0000	0.0000	0.052	-0.0205

¹ [Adjusted Consumptive Domestic Use] + [Consumptive Public Supply Use] + [Total Non-Ag Consumptive Use from Surface Water] + [Other Non-Ag Consumptive Use from Groundwater].

² [Non-Ag Groundwater Availability] – [Total Non-Ag Consumptive Use] + [Imported Septic Return]

³ Occurs when there is an import of water which is returned to the HUC through septic return

"Missing Data": One or more sources of data were not reported.

"N/A": One or more of the components to C/D use is missing and C/D use and NWA could not be calculated.

Refer to Appendix for further explanation of terms.

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Table 23. Re-evaluated NW 1: 02030103050020 (Pawock Brook)

Year Published	Non-Ag Groundwater Availability (MGD)	Consumptive Domestic Use (MGD)	Consumptive Public Supply (MGD)	Other Consumptive (MGD)	Total Non-Ag Consumptive Use (MGD) ¹	Non-Ag NWA (MGD) ²
	0.0480	0.0513	0.0017	0.0000	0.043	0.0055
2000	0.0480	0.0684	0.0020	0.0000	0.070	-0.0224
2001	0.0480	0.0684	0.0029	0.0000	0.071	-0.0233
2002	0.0480	0.0684	0.0021	0.0000	0.070	-0.0224
2003	0.0480	0.0684	0.0001	0.0000	0.068	-0.0205
2004	0.0480	0.0684	0.0002	0.0000	0.069	-0.0205
2005	0.0480	0.0684	0.0000	0.0000	0.068	-0.0204
2006	0.0480	0.0684	0.0001	0.0000	0.068	-0.0205
2007	0.0480	0.0684	0.0000	0.0000	0.068	-0.0204
2008	0.0480	0.0684	0.0000	0.0000	0.068	-0.0204
2009	0.0480	0.0684	0.0019	0.0000	0.070	-0.0223
2010	0.0480	0.0684	0.0014	0.0000	0.070	-0.0217
2011	0.0480	0.0684	0.0012	0.0000	0.070	-0.0216
2012	0.0480	0.0684	0.0012	0.0000	0.070	-0.0216
2013	0.0480	0.0684	0.0013	0.0000	0.070	-0.0217
2014	0.0480	0.0684	0.0013	0.0000	0.070	-0.0216
2015	0.0480	0.0684	0.0012	0.0000	0.070	-0.0215
2016	0.0480	0.0684	0.0010	0.0000	0.069	-0.0214

¹ [Adjusted Consumptive Domestic Use] + [Consumptive Public Supply Use] + [Total Non-Ag Consumptive Use from Surface Water] + [Other Non-Ag Consumptive Use from Groundwater].

² [Non-Ag Groundwater Availability] - [Total Non-Ag Consumptive Use] + [Imported Septic Return]

³ Occurs when there is an import of water which is returned to the HUC through septic return

"Missing Data": One or more sources of data were not reported.

"N/A": One or more of the components to C/D use is missing and C/D use and NWA could not be calculated.

Refer to Appendix for further explanation of terms.

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Although NWA was not calculated for the remaining six (6) subwatersheds that intersect Vernon Township, the average July domestic withdrawals have been summarized for each, for use in NWA calculations by neighboring municipalities (Table 24).

Table 24. Average Domestic Withdrawals (July 2000-2013) within Vernon Township for HUC14s Outside NWA Analysis

HUC14	Name	Domestic Withdrawals (MGD)
02020007010030	Franklin Pond Creek	0.0023
02020007010050	Hardistonville tribs	0.0384
02020007010070	Wallkill R (Martins Rd to Hamburg SW Bdy)	0.0452
02020007020070	Papakating Creek (below Pelletstown)	0.0000
02020007040060	Long House Creek/Upper Greenwood Lake	0.0136
02030103050040	Clinton Reservoir/Mossmans Brook	0.0068

MGD = million gallons per day

Summary of Significant Causes of Deficit

Following is a summary of the range of re-evaluated NWA calculations:

Table 25. Summary of NWA Results

HUC14	NWA Minimum (MGD)	NWA Maximum (MGD)
02020007030010: Wallkill R (41d13m30s to Martins Road)	-0.006	-0.081
02020007030030: Wallkill River (Owens gage to 41d13m30s)	-0.03	-0.03
02020007030040: Wallkill River (stateline to Owens gage)	-0.043	-0.043
02020007040010: Black Ck (above/incl G. Gorge Resort trib)	-0.304	-0.583
02020007040020: Black Creek (below G. Gorge Resort trib)	-0.118	-0.387
02020007040030: Pochuck Ck/Glenwood Lk & northern trib	-0.028	-0.032
02020007040040: Highland Lake/Wawayanda Lake	-0.018	-0.06
02020007040050: Wawayanda Creek & tribs	-0.032	-0.044
02030103050010: Pequannock R (above Stockholm/Vernon Rd)	-0.021	-0.021
02030103050020: Pacock Brook	-0.02	-0.023

MGD = million gallons per day

Significant causes of the deficits noted above include:

- **02020007030010:** The primary driver behind the deficit in this HUC14 is consumptive use from domestic and public supply. Domestic consumptive uses are generally much higher than public supply. Water conservation approaches focusing on water supply and residential irrigation should be considered as a mitigation measure.
- **02020007030030:** The only reported use within this HUC14 is from domestic supply.
- **02020007030040:** The only reported use within this HUC14 is from domestic supply.
- **02020007040010:** Consumptive use is driven largely by public supply pumping by Veolia North America (Formerly Suez). This HUC14 also has a very small wastewater discharge to groundwater from the Legends Resort and Golf Club, likely from people who took up residence within the former hotel. It has since been shut down and is currently abandoned. Redevelopment of this large property should incorporate “smart” and “green” technologies to conserve water and recharge where possible.
- **02020007040020:** The driver behind the deficit in this HUC14 is domestic and public supply, although golf course irrigation that is reported in 2002 is the driver during that period. As irrigation withdrawals

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are not reported since, the driver behind the deficit is public and domestic supply (generally equal contribution).

- **02020007040030:** The driver behind the deficit within this HUC14 is domestic supply.
- **02020007040040:** The only reported use within this HUC14 is from domestic supply.
- **02020007040050:** The driver behind the deficit within this HUC14 is domestic supply.
- **05030103050010:** The driver behind the deficit within this HUC14 is domestic supply.
- **02030103050020:** The driver behind the deficit within this HUC14 is domestic supply.

Characterization of Deficit

The deficit in this WUCMP area varies from marginal (0 to 0.1 MGD) to mild (0.1 to 1 MGD). With the exception of HUC14 02020007040020 and 02020007040040, data from 2000 through 2016 suggest that use patterns are consistent, and that no significant trend upward or downward is evident. Therefore, the years for which data are available appear to be appropriate years on which to base deficit mitigation planning. The two HUC14s where the deficit is increasing should be prioritized for implementation of water conservation and management measure.

Anticipated Impacts of Climate Change to NWA

Background

The Northeast region of the United States, along with the rest of the world, is expected to experience a range of changes that will influence the quantity and quality of water supplies, including modified stream flows, increased sea level rise and storm surges, increased extreme precipitation events, and increased water temperatures. As a result, federal agencies and state, county, and local governments in the region have begun developing and integrating climate change adaptation policies into their environmental programs including water resource management and planning.

In 2019, New Jersey established the Interagency Council on Climate Change. One of the goals of the Council is to develop short- and long-term action plans that will promote the long-term mitigation, adaptation, and resilience of New Jersey's economy, communities, infrastructure, and natural resources¹². In addition to these coordinated efforts, the Interagency Council will support the development and implementation of the Climate Change Resilience Strategy that will guide and inform State actions to address the impacts of climate change.

Given the importance of the Highlands Region as an essential source of drinking water to more than one-half of the State's population, the region plays a crucial role in the promotion of long-term water resource security¹³. Thus, it is important to start considering the impacts of a changing climate to the Highland's HUC14 subwatersheds and consequently in the Municipal Water Use and Conservation Management Plans (WUCMPs).

In this context, the purpose of this section is to provide a summary of expected changes in atmospheric (temperature, precipitation) and hydrological conditions (snowfall, drought, groundwater, streamflow) for New Jersey and the Highlands Region including a qualitative assessment of potential impacts to groundwater recharge and availability.

Changing Climate Conditions in New Jersey

Since the end of the 1800s, New Jersey has experienced a 3.5°F (1.9°C) increase in the State's average temperature (NJDEP 2020a). This warming trend is expected to continue with annual average temperature

¹² Executive Order 89, New Jersey. October 2010. <https://nj.gov/infobank/eo/056murphy/pdf/EO-89.pdf>

¹³ NJDEP 2017a, RMP 2008.

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increases of 4.1 to 5.7°F (2.3°C to 3.2°C) by 2050 (Horton et al. 2015). The increase in temperatures is expected to be felt more during the winter months (December, January, and February), resulting in less intense cold

waves, fewer sub-freezing days, and less snow accumulation. Heat waves are also expected to impact larger areas, with more frequency and longer durations (Lyon et al. 2019). It is projected that by the middle of the 21st century 70% of summers could be hotter than the warmest summer experienced to date (Runkle et al. 2017).

Temperature changes are different across the different climate divisions of New Jersey as shown in **Table 26**. The Highlands Region is located in Division 1, which shows the highest increases in winter temperatures between 1895 and 2019¹⁴.

Table 26. Annual and Seasonal Increases in Air Temperatures (in Fahrenheit) Over the Period 1895 to 2019¹⁵.

Annual Temperature Increases					
Spatial Extent	Annual	Winter	Spring	Summer	Fall
Statewide	1.9	3.5	3.0	3.1	3.0
Division 1 North	2.0	3.6	3.1	3.0	3.1
Division 2 South	1.9	3.4	2.9	3.1	2.8
Division 3 Coast	2.2	4.0	3.6	3.6	3.5

Source: NJDEP 2020a, modified

As temperatures increase, the atmosphere can hold more water vapor leading to a greater potential for precipitation. New Jersey's annual rainfall averages approximately 46 inches per year (*Office of NJ State Climatologist*, 2020). However, this average varies across the state due to physiographical differences in the inland and coastal areas (*Agel et al. 2015*, *Runkle et al. 2017*). The north to central portion (including the Highlands) of the state averages 49 inches of precipitation annually while the coastal and southern regions average 44 and 45 inches, respectively (*Office of the New Jersey State Climatologist 2020*). Overall, New Jersey is becoming wetter in recent decades. In the northern part of the State, the average precipitation increased over five inches when comparing long-term averages between 1895-1970 and 1971-2000 (*NJDEP 2020b*). And over the last 10 years, the annual rainfall has slightly increased by 7.9%. However, the changes in precipitation have not been uniform across seasons with small increases in Winter and Spring, small decreases in summer and larger increases in the Fall (*NJDEP 2020a*, *USGCRP 2017*). Assessing long-term and short-term trends on an annual and seasonal basis is important for projecting future precipitation and also account for common seasonal and interannual variability associated with rainfall.

In the future, depending on the emission scenario, annual precipitation in New Jersey could increase between 4% to 11% by 2050 (*Horton et al. 2015*). Rainfall increases are projected to differ across seasons with higher increases in the amount of precipitation occurring in winter and spring followed by more moderate increases in the fall. Projected change in precipitation for summer and fall are small compared to natural variation

¹⁴ Office of NJ State Climatologist, 2020.

¹⁵ The change in temperature was determined from the linear slope of the entire period of record.
http://www.climate.rutgers.edu/stateclim_v1/monthlydata/index.php; www.climate.rutgers.edu/stateclim_v1/monthlydata/index.php

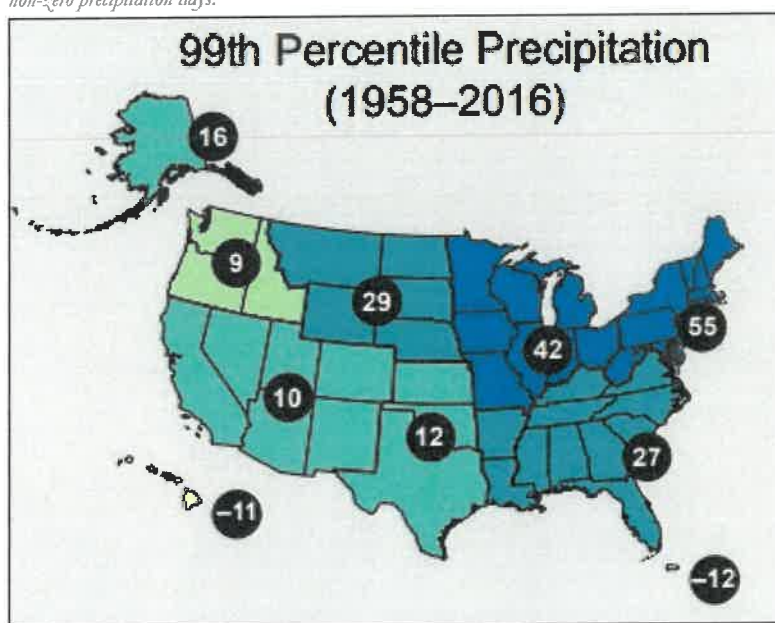
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(USGCRP 2017). Summer precipitation projections show a range of results in the literature between no to small increases in rainfall (Fan et al. 2014, Demaria et al. 2016, USGCRP 2017).

While average rainfall totals will increase, changing atmospheric conditions are expected to especially exacerbate the intensity of heavy rainfall events as a warmer atmosphere has the potential to produce more intense and frequent storms (NJDEP 2020a, USGCRP 2017). In New Jersey, extreme storms typically include coastal nor'easters, snowstorms, spring and summer thunderstorms, tropical storms, and on rare occasions hurricanes. As Earth continues to warm, increased frequency and intensity of heavy precipitation will become more likely. For example, the U.S. National Climate Assessment (USGCRP 2017) notes that the Northeast United States has already seen "a greater increase in extreme precipitation than any other region" with a roughly 55 percent increase in intense storms between 1958 and 2010, defined as the heaviest 1 percent of precipitation events

Figure 1. Annual amount of precipitation falling in daily events that exceed the 99th percentile of all non-zero precipitation days.



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of their stream channels. Intense runoff has some benefit as it can quickly replenish reservoirs, although will also introduce a higher pollutant load (sediment, metals, nutrients) as discussed below. Pervious runoff (runoff that occurs when the storage capacity of the soil is exceeded) occurs under natural conditions and is preferable to impervious surface runoff.

As temperatures increase and the growing season lengthens, there will be greater demand for water for irrigation use (e.g., crop, golf course, and outdoor residential), putting more stress on the water supply. Water demands peak in warm weather and these peaks occur at the same time that natural resources are typically most limited. Higher temperatures will also lead to more evapotranspiration (the release of moisture from open water and soils by evaporation and from plants by transpiration) and reduced soil moisture, amplified by warmer and drier conditions over an extended growing season (*USGCRP 2017*). As increased evapotranspiration rates will result in drier soils it can have different effects on runoff generation. An increase of runoff is expected during larger higher intensity storms (limited capacity to absorb water rapidly), whereas reduction of runoff is likely during smaller storm. Increases in evapotranspiration can be significant in New Jersey where evapotranspiration presents a large portion of the total hydrologic equation (*Rutgers 2016*).

On the other hand, increasing rainfall also provides opportunities for greater water supply, in particular rainfall which occurs during periods when groundwater infiltration and aquifer recharge can occur. More heavy rainfall is also expected to generate more runoff as high intensity rainfall can overwhelm the capacity of soil and add to runoff generated by impervious cover. Runoff increases can help to fill lakes, reservoirs and streams in summer and fall during rain events.

Water Quality

It should be noted that higher temperatures and more rainfall will also have an impact to water quality, both to surface and groundwater. Increases in extreme rainfall will increase runoff and increase potential to impair water quality through erosion, increased turbidity, nutrient loading and pathogens in waterways (*NJDEP 2020a*). Further, concerns also include a potential to stimulate harmful algal blooms and potential for contamination from the mobilization of microbial pathogens, pesticides, and fertilizers rich in nitrogen and phosphorus from agricultural areas (*Sinha et al. 2017, Ho et al. 2019 Hamilton and Helsel 1995, USGS 2012*).

These runoff-related water quality impacts do not have an impact to groundwater or NWA and is not a focus of the WUCMP (which is based on low flow statistics that generally reflect periods of base flow only). However, it is important to point out that climatic changes may stress the water treatment processes required by the Safe Drinking Water Act or limit use for other non-potable uses.

Potential Impacts of Climate Change to Groundwater Availability

For the purpose of this WUCMP, a qualitative assessment of the impacts of climate change to groundwater availability¹⁶ and water use was conducted based on information provided in the literature and scientific resources specific to New Jersey. Impacts to groundwater availability and water uses may ultimately impact NWA, which could affect Washington Township's strategies and planning to conserve and preserve water in the future.

Evaluating the impacts of climate change to a watershed and groundwater is complex and depends on different climatic and non-climatic factors such as land use and aquifer characteristics. A more detailed hydrological/geohydrological assessment which includes updated analysis of streamflow records, local climate

¹⁶ It is that portion of the Groundwater Capacity of a subwatershed that can be provided for human use without harm to other groundwater users, aquatic ecosystems or downstream users.

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projections and non-climatic factors is needed to quantitatively assess impacts to groundwater availability in response to changing climate.

Groundwater Availability

Low flow statistics derived from base flow are used in the Highlands Regional Master Plan (*RMP 2008b*) to determine groundwater capacity¹⁷ which ultimately leads to the determination of Groundwater Availability. Base flow, under natural conditions, is the amount of stream flow discharging from the surface aquifer, which is controlled by the amount of water recharging the groundwater by precipitation and the infiltration capacity of the soil. Base flow in a natural stream system is essentially equal to total groundwater recharge of the surface aquifer minus any vertical recharge of underlying aquifers (*RMP 2008b*).

Based on the information provided in the previous section, climate change will likely affect groundwater recharge and thus base flow in the following ways:

- More rainfall in the winter & spring season will increase groundwater recharge. Typically, rainfall in the non-growing season contributes a large fraction of annual recharge compared to the growing season rainfall. Further, warmer winter temperatures will result in longer periods where the ground is not frozen, providing additional potential for recharge. Thus, above average precipitation and temperatures in both seasons may result in higher groundwater recharge, which supports long-term stream flow and increases the amount of water available for use during the summer months.
- Declining snow fall and less snowpack due to warmer temperatures can reduce snowmelt recharge to groundwater in the Spring causing earlier in the year winter-spring flows. This may lead to higher winter flows but lower spring flows, with potential impacts to base flows in the summer as in some regions snow melt flow provides a large fraction of water to sustain base flows during the summer. (*Hodgkins and Dudley 2006, Hayhoe et al. 2007*).
- An increase in intense precipitation events will likely increase runoff (precipitation that moves immediately across the land surface into surface waters) which will lead to higher short duration streamflow spikes and three-day peak flows (*Demaria et al. 2016*). However, increased rainfall intensity will reduce the amount of water able to infiltrate into the soil, as most soils have a limited capacity to absorb water rapidly, resulting in more runoff with negative impacts to groundwater recharge.
- As mentioned above, rainfall during summer months is expected to experience little to no increase in the future. This in combination with increasing temperatures will increase evapotranspiration rates. Higher evapotranspiration rates will affect soil moisture storage and increase moisture deficits potentially decreasing recharge (*Demaria et al. 2016*). Further, increasing evapotranspiration rates and soil moisture could even offset runoff increases due to more rain (*USGCRP 2017*).
- Lastly, warmer temperatures and shifting precipitation patterns will likely change groundwater recharge patterns and thus impact the magnitude and duration of summer-fall low flows (*Demaria 2016, USGCRP 2017*).

Water Use

It is expected that drier summers and warmer temperatures will increase water use in the watersheds.

As temperatures increase and thus the growing season lengthens, there will be greater demand for water for irrigation use (e.g., crop, nursery, golf course, and outdoor residential). This will be potentially exacerbated due

¹⁷ The natural ability of a subwatershed to support stream flow over time, during dry weather climatic condition. In the specific context of water availability calculations by subwatershed, it is the Low Flow Margin derived from the September median flow minus the 7Q10 value for that portion of each HUC14 within the Highlands Region

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to in an increase evapotranspiration and corresponding short-term soil moisture deficits which may become more frequent during summer, early fall. (*Hayhoe et al. 2007*).

Water demand peaks are also expected to increase in warm weather, and even more so during heat waves. Demand peaks typically occur at the same time that natural resources are already most limited. This may be somewhat offset by increased recharge during the winter months.

The increase water demand will have a negative effect on base flow and may result in higher NWA deficits or reduction in NWA surpluses.

Summary

Annual total flows (base flow and runoff) have increased due the increases in rainfall in the North-East US (*Hayhoe et al. 2007*). However, future changes in seasonal rainfall patterns and increasing temperatures as presented above suggest that despite the projected increased in precipitation, seasonal low flow conditions will still prevail in the watersheds as evapotranspiration and water demand increases during the warm months. Further, the length of the low-flow season (typically May through October) is projected to increase resulting in greater potential for more frequent and prolonged droughts and lower streamflow during the warmest months of the year.

The results of the literature review suggest that the possible changes in climatic conditions could have a negative impact on groundwater recharge and base flow during the summer months. If true, higher water use during these periods is further expected to decrease surpluses and increase deficits in NWA. As NWA accounts for water usage during the summer months only, the water use component of NWA will increase, therefore increasing deficits and eroding any potential surplus. Increased recharge in the winter months will help with overall aquifer storage and can increase the availability of water for increased usage in the summer, but if the magnitude of increased usage is equivalent to the additional recharge, the benefit of any additional recharge to the low-flow margin will be limited and groundwater availability will remain essentially the same. Thus, it is recommended that municipalities keep developing and implementing the strategies identified in their WUCMPs as they need to adapt to less water availability during the warmer months.

Climate change science and projections are a complex and dynamic field. While some generalizations can be made, it is important to consider the complex interaction of the groundwater system to climatic and non-climatic factors. Climate change impacts to stream flows and groundwater capacity should be incorporated into the Monitoring and Implementation Phases of the Water Use and Conservation Management Plan and reflected in any subsequent updates.

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Water Conservation/Deficit Mitigation Strategies

The following table summarizes the water use management techniques and mitigation strategies that this WUCMP could use to reduce and/or eliminate the water deficit in these subwatersheds:

Table 27. Water Conservation/Deficit Mitigation Strategies

Measure	Res	Com/ Indust / Inst	Water Purveyor	Golf	Ag	Mun
Water Use Reduction						
Heating System Upgrades	▪	✓	▪			
Hot Water Heater Upgrade	✓	✓	▪			
Hydrant Locks			✓	▪	▪	
Avoid Overspray	✓	✓	▪	▪	✓	
Building and Pipe Insulation	✓	✓	▪			
Cleaning	✓	✓	▪	▪	✓	
Community Garden	✓					✓
Cooling System Upgrades	▪	✓			▪	▪
Crop and Soil Selection		▪	▪	▪	✓	
Dishwasher Upgrade	✓	✓				
Drip Irrigation	✓	✓				
Drought Contingency Plans		▪	✓	▪	▪	✓
Equipment Condensation		✓	✓	▪	▪	
Irrigation Conservation	✓	✓	▪	✓	✓	✓
Irrigation Education	▪	▪	✓			▪
Irrigation System Design	✓	✓	▪	✓	✓	✓
Landscape Design	✓	✓	▪	✓		▪
Landscape Incentive Program						✓
Leak Detection and Repair	✓	✓	✓	✓	✓	
Low Flow Faucets/Faucet Aerators	✓	✓		✓	▪	
Low Flow Shower Fixtures	✓	✓				
Low Flow Toilet Fixtures	✓	✓		✓	▪	
Low Volume Irrigation	✓	✓	▪	✓		
Maintenance	✓	✓	✓	✓	✓	▪
Meter Calibration/Replacement			✓	▪	▪	
Night Watering	✓	✓		✓	✓	
Plumbing Incentive Program		✓	▪			✓
Pre-Rinse/Commercial Kitchen Upgrades		✓				
Process Water Optimization		✓				
Public Education Handouts		✓	✓	▪	▪	✓
Public Workshops				▪	▪	✓
Rate Structure			✓	▪	▪	
Revised Irrigation Ordinance						✓

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School Conservation Programs			✓	▪	▪	✓
Measure	Res	Com/ Indust / Inst	Water Purveyor	Golf	Ag	Mun
Submetering	✓	✓	✓	▪	▪	
Swimming Pool Covers	✓					
Turfgrass Selection				✓		
Washing Machine Upgrade	✓	✓				
Water Bill Structure/Comparison	✓	✓	✓	▪	▪	
Water Conservation Programs		✓	✓	✓	✓	✓
Water Treatment Improvements			✓	▪	▪	
Waterless Restrooms		✓		✓		
Well Optimization			✓	▪	▪	
Reuse and Reclamation						
Graywater Recharge	✓	✓	▪			
Graywater Reuse for Irrigation	✓	✓	▪			
Internal Infrastructure Graywater Reuse		✓	▪			
Internal Infrastructure Stormwater Reuse		✓	▪			
Storage						
Composting	✓	✓	▪	✓	✓	
Install Geotextiles Under Plantings	✓	✓		✓		
Rainwater Harvesting/Rainwater Cistern	✓	✓	▪			
Water Storage Tank Management			✓	▪	▪	
Recharge						
Assisted Infiltration/Enhanced Recharge	✓	✓	▪	✓		✓
Building Interceptor Dykes, Swales, and Berms	✓	✓	▪	✓		✓
Injection Wells		✓				
Modifications to Zoning						✓
Stormwater Ordinance						✓
Porous Paving	✓	✓	▪			✓
Rainwater Harvesting/Rain Gardens	✓	✓	▪			
Retrofit Existing Detention Basins		✓	▪			✓

Evaluation and Ranking of Water Conservation Strategies

Evaluation

To determine the best mitigation strategies for this WUCMP, a simple qualitative ranking system was developed. This system considers seven attributes of each potential strategy from the perspective of a user in these subwatersheds. The seven attributes are:

1. **Feasibility** – Can the strategy be implemented by a specific type of user? Strategies that have a high ranking for Feasibility can be implemented relatively easily. Implementing a night watering program is considered a highly feasible deficit mitigation strategy.
2. **Effectiveness** – If the strategy is implemented by a specific type of user, will it create the desired effect? Strategies that have a high ranking for Effectiveness offer the best opportunity to directly reduce the NWA deficit. Example: Using a broom rather than a hose or power washer to clean a driveway is considered a highly effective deficit mitigation strategy.
3. **Resilience and Reliability** – Once the strategy is implemented, how susceptible is it to failure, and how much maintenance will it require to remain in operation? Strategies that have a high ranking for Resilience and Reliability are expected to be implemented consistently over long periods. Example: Installation of a graywater system is considered a highly resilient and reliable deficit mitigation strategy.
4. **Reduction Potential and Market Penetration** – Once the strategy is working, what regional reduction in deficit can be expected, based on the number of users likely to implement the strategy? Strategies that have high rankings for Reduction Potential and Market Penetration offer opportunity for implementation by the greatest number of stakeholders. Example: Installation of low-flow plumbing fixtures is highly ranked for reduction potential and market penetration.
5. **Administrative Complexity and Availability of Implementing Entities** – How difficult will it be to launch, monitor, and evaluate the effectiveness of the mitigation strategy? Strategies that are highly ranked for Administrative Complexity and Availability of Implementing Entities are simple to implement and can be implemented by existing entities. Examples: modifying a stormwater ordinance or implementing a new rate structure.
6. **Cost and Cost Effectiveness** – What is the efficiency of a mitigation strategy in terms of cost per unit of reduction? Strategies that are highly ranked for Cost and Cost Effectiveness offer the “biggest bang for the buck”. Examples: plumbing incentive programs and drought contingency plans.
7. **Schedule** – How long will it take to implement the mitigation strategy? Strategies that are highly ranked for Schedule can be implemented quickly. Example: public education handouts.

Each mitigation strategy was ranked for each of the seven attributes listed above. A value of 1, 2 or 3 was assigned based on the degree to which each strategy embodies each attribute. A ranking of 3 indicates:

- Highly feasible
- Very effective
- Highly resilient and reliable
- High potential for deficit reduction and market penetration
- Simple strategy to administer; implementing entities available
- Short time required to implement

Scores for each strategy are listed in **Appendix D** for residential, water purveyors, and municipalities respectively.

The evaluation was conducted under two scenarios and it is anticipated that it will be repeated following stakeholder input to assign weights to each attribute. The following scenarios were evaluated:

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- Equal weight – each of the seven attributes was weighted equally. This is analogous to simply summing the scores in each table.
- Weighted for consumptive/depletive use reduction – a weight of 50% was assigned to the C/D reduction attribute and all other attributes were weighted equally (8.3% each).

As the primary drivers for consumptive uses are agricultural and domestic supply, mitigation strategies should focus on those two types of uses. It's important to note that the strategies listed within this WUCMP are a subset of strategies and this list should be expanded as additional strategies are developed.

Ranking of Mitigation Strategies

Deficit mitigation strategies that are relevant to the subwatersheds included in this WUCMP area have been ranked and the top 10 strategies for each water user category are listed in **Tables 28** through **33**. An evaluation program called EVAMIX was used to rank each strategy. EVAMIX is a well-tested multi-criterion evaluation program used to rank alternatives. The program takes raw data, both quantitative and qualitative, normalizes it and uses the data to compare alternatives while helping stakeholders understand which factors have greater or lesser impact on the outcome. This process uses the scores that were assigned in **Appendix D** and determines the relative weight of each of the categories or attributes. The weights for each attribute are relative to each other and the sum of the weights must equal 1.0 (100%). For example, if a stakeholder thought that feasibility was the most important attribute, perhaps they would assign a weight of 40% to that attribute and 10% to each of the others.

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Table 28. Ranked Mitigation Management Strategies for Residential Users

Ranked Mitigation Management Strategies for Residential Users			
Rank	Equal Weight	Weighted to C/D Reduction	Rank
1	Water Bill Structure/Comparison	Water Bill Structure/Comparison	1
2	Irrigation System Design	Irrigation System Design	2
3	Low Flow Faucets/Faucet Aerators	Low Flow Faucets/Faucet Aerators	3
3	Low Flow Shower Fixtures	Low Flow Shower Fixtures	3
5	Low Flow Toilet Fixtures	Low Flow Toilet Fixtures	5
5	Washing Machine Upgrade	Night Watering	5
7	Night Watering	Washing Machine Upgrade	7
8	Avoid Overspray	Avoid Overspray	8
8	Irrigation Conservation	Irrigation Conservation	8
10	Dishwasher Upgrade	Dishwasher Upgrade	10

Table 29. Ranked Mitigation Management Strategies for Commercial/Industrial/Institutional Users

Ranked Mitigation Management Strategies for Commercial/Industrial/Institutional Users			
Rank	Equal Weight	Weighted to C/D Reduction	Rank
1	Irrigation System Design	Irrigation System Design	1
2	Water Bill Structure/Comparison	Water Bill Structure/Comparison	2
3	Retrofit Existing Detention Basins	Retrofit Existing Detention Basins	3
4	Low Flow Faucets/Faucet Aerators	Low Flow Faucets/Faucet Aerators	4
4	Low Flow Toilet Fixtures	Low Flow Toilet Fixtures	4
6	Night Watering	Night Watering	6
7	Cleaning	Cleaning	7
8	Dishwasher Upgrade	Dishwasher Upgrade	8
8	Hot Water Heater Upgrade	Hot Water Heater Upgrade	8
10	Water Conservation Programs	Water Conservation Programs	10

Table 30. Ranked Mitigation Strategies for Water Purveyors

Ranked Mitigation Management Strategies for Water Purveyors			
Rank	Equal Weight	Weighted to C/D Reduction	Rank
1	Leak Detection and Repair	Leak Detection and Repair	1
1	Rate Structure	Rate Structure	1
1	Water Bill Structure/Comparison	Water Bill Structure/Comparison	1
4	Water Treatment Improvements	Water Treatment Improvements	4
5	Water Storage Tank Management	Drought Contingency Plans	5
6	Maintenance	Water Storage Tank Management	6
7	Drought Contingency Plans	Maintenance	7
8	Equipment Condensation	Well Optimization	8
9	Water Conservation Programs	Submetering	9
10	Well Optimization	Meter Calibration/Replacement	10

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Table 31. Ranked Mitigation Management Strategies for Golf Courses

Ranked Mitigation Management Strategies for Golf Courses			
Rank	Equal Weight	Weighted to C/D Reduction	Rank
1	Irrigation System Design	Irrigation System Design	1
2	Turfgrass Selection	Turfgrass Selection	2
3	Avoid Overspray	Avoid Overspray	3
3	Irrigation Conservation	Irrigation Conservation	3
3	Night Watering	Water Conservation Programs	3
3	Water Conservation Programs	Night Watering	3
7	Maintenance	Assisted Infiltration/Enhanced Recharge	7
8	Low Flow Faucets/Faucet Aerators	Building Interceptor Dykes, Swales, and Berms	8
9	Assisted Infiltration/Enhanced Recharge	Graywater Systems	9
10	Low Flow Toilet Fixtures	Waterless Restroom	10

Table 32. Ranked Mitigation Management Strategies for Agriculture

Ranked Mitigation Management Strategies for Agriculture			
Rank	Equal Weight	Weighted to C/D Reduction	Rank
1	Night Watering	Night Watering	1
2	Avoid Overspray	Avoid Overspray	2
2	Irrigation Conservation	Irrigation Conservation	2
2	Water Conservation Programs	Water Conservation Programs	2
5	Maintenance	Cleaning	5
6	Cleaning	Crop and Soil Selection	6
7	Leak Detection and Repair	Maintenance	7
8	Crop and Soil Selection	Leak Detection and Repair	8
9	Irrigation System Design	Irrigation System Design	9
10	Compost	Compost	10

Table 33. Ranked Mitigation Management Strategies for Municipalities

Ranked Mitigation Management Strategies for Municipalities			
Rank	Equal Weight	Weighted to C/D Reduction	Rank
1	Stormwater Ordinance	Stormwater Ordinance	1
2	Retrofit Existing Detention Basins	Retrofit Existing Detention Basins	2
3	Modifications to Zoning	Modifications to Zoning	3
4	Revised Irrigation Ordinance (odd/even, rain sensor requirements, etc.)	Revised Irrigation Ordinance (odd/even, rain sensor requirements, etc.)	4
5	Public Workshops	Irrigation Education	5
6	Irrigation Education	Water Conservation Programs	6
6	Water Conservation Programs	Assisted Infiltration/Enhanced Recharge	6
8	School Conservation Programs	Porous Paving	8
9	Public Education Handouts	Building Interceptor Dykes, Swales, and Berms	9
10	Plumbing Incentive Program	Public Workshops	10

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Funding Opportunities

Highlands Council Planning Grants

The Highlands Council will approve the WUCMP following an opportunity for formal public review and comment. Upon approval, the WUCMP will become a component of the Plan Conformance process for the affected municipalities. The Highlands Act provides for state funding to support planning efforts necessary to implement Plan Conformance. In the case of a WUCMP, state funding is available to address necessary modifications (if any) to the Highlands Area Land Use Ordinance, and implementation planning for other components. In addition, the municipality may request additional planning funds to develop mitigation strategies. The Highlands Council is not currently authorized to provide capital grants for project implementation, but the Highlands Council will work with the municipalities to identify and obtain funding from other state and federal agencies (see below) for such purposes.

State Program Grants

The following State agencies should be considered for State program grants:

- New Jersey Department of Agriculture (NJDA)
- New Jersey Department of Environmental Protection (NJDEP)
- New Jersey Department of Community Affairs (DCA)
- New Jersey Highlands Council

The official website for the State of New Jersey provides links to various grant opportunities throughout the state. The following is a direct link to state grants by department or agency:

<https://www.nj.gov/nj/gov/njgov/grants.html>

Additionally, water supply, wastewater, and stormwater infrastructure improvements may be eligible for low-interest loans from the New Jersey Environmental Infrastructure Financing Program:

<http://www.njeit.org/>

The Small Cities Community Development Block Grant (CDBG) program offers funding for local needs for which no other source of funding is available:

<http://www.nj.gov/dca/divisions/dhcr/offices/cdbg.html>

The New Jersey Highlands Council has grant programs to assist with agricultural management, particularly as it pertains to irrigation. In addition, the Highlands Council can also help fund outreach and educational programs. Additional information can be found at:

<http://www.state.nj.us/njhighlands/grantprograms/>

Federal Program Grants

There is federal funding available for water conservation and water use technology. A searchable database of federal program grants can be accessed at <https://www.grants.gov/>. For federal grants, the following agencies and their components should be considered:

- Environmental Protection Agency (EPA)

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- The Catalog of Federal Funding Sources for Watershed Protection
<http://cfpub.epa.gov/fedfund/>
- Office of Wetlands, Oceans, and Watersheds – Watershed Funding
http://water.epa.gov/grants_funding/shedfund/watershedfunding.cfm
- EPA Smart Growth Grants
<https://www.epa.gov/smartgrowth/epa-smart-growth-grants-and-other-funding>
- United States Department of Agriculture (USDA)
- United States Department of Energy (USDOE)
- United States Department of the Interior (USDOI)
- United States Department of Housing and Urban Development (HUD) – including Community Development Block Grants (CDBG)
- United States Geological Survey (USGS) – including cooperative agreement

Grants may be available from multiple components of the agencies listed above, so when searching for grants, do not immediately rule out agencies with names different from those listed. Each grant in the Grants.gov database has a summary/description and eligibility requirements. The Natural Resources Conservation Service (NRCS) is a notable component of the USDA to consider for funding. Activities in planning for green building, including activities in the Leadership in Energy and Environmental Design (LEED) program, are supported by EPA through funding for governments, non-profit organizations, consumers and industries who are striving to conserve energy. The following website details some of the funding opportunities provided by EPA regarding green building:

<http://www.epa.gov/greenbuilding/tools/funding.htm>

Private Funding Sources

Development

Funding from development activities can be implemented through changes to construction codes and development review ordinances, including the Highlands Area Land Use Ordinance.

Commercial Entities

Cooperative events with local businesses can be used to raise funds or provide discounts to local stakeholders to promote water conservation.

Foundations

The following are some foundations that offer funding opportunities:

- National Fish and Wildlife Foundation (<https://www.nfwf.org/>)
- River Network (<https://www.rivernetwork.org/>)
- American Rivers (<https://www.americanrivers.org/>)
- Center for Watershed Protection (<https://cwp.org/>)
- Trout Unlimited (<https://www.tu.org/>)

Other Non-Governmental Organizations

The American Water Works Association (AWWA) participates in grant and research programs for water conservation and technology. The following is a link to AWWA's website where current grant information may be found:

<http://www.awwa.org/>

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The American Water Resources Association (AWRA) has information about water resources education, management and research.

<http://www.awra.org/>

The Water Research Foundation offers funding for projects through various programs.

<https://www.waterrf.org/>

Municipalities and Utilities

Municipal Capital Projects

Municipalities periodically repair, rehabilitate or replace municipal facilities. In municipal capital projects, incorporation of improved fixtures, irrigation methods, stormwater capture and recharge, and other methods for reducing water consumption and depletion can be highly cost-effective. Some water conservation methods have relatively short payback periods, especially those that reduce hot water use.

Utility Operations

Utilities also periodically repair, rehabilitate or replace their capital facilities, with most of the costs funded through user charges. These projects, when part of a planned preventive maintenance program, can reduce the long-term costs of operating the utility by minimizing the potential for emergency repairs. Utilities also may address constraints on water line service capacity by encouraging water conservation by customers. Such projects reduce both water losses and system stress. Distribution system optimization through pressure management can also help conserve water.

Water Conservation, Deficit Reduction and Elimination Strategies

Selected Strategies

The deficit in this WUCMP area varies from marginal (0 to 0.1 MGD) to mild (0.1 to 1 MGD). With the exception of HUC14 02020007040020 and 02020007040040, data from 2000 through 2016 suggest that use patterns are consistent, and that no significant trend upward or downward is evident. Therefore, the years for which data are available appear to be appropriate years on which to base deficit mitigation planning.

The two HUC14s where the deficit is increasing should be prioritized for implementation of water conservation and management measures. Since the ten (10) subwatersheds in this contain a variety of uses including residential, industrial, agricultural, and golf courses. The selected strategies for Vernon's HUC14s are as follows:

Water Bill Structure/Comparison

Res, Com/Indust/Inst, Water Purveyor

This strategy focuses on highlighting for the residents their usage in comparison to historical patterns and other users. Behavioral studies have found that people respond to peer pressure and normative behavior. This strategy aims to take advantage of that response. The premise is that when water users are aware of the positive behavior of others in their peer group, they are more likely to change their own behavior and respond in a positive manner.

Irrigation System Design

Res, Com/Indust/Inst, Golf, Ag

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This strategy involves the promotion of intelligent irrigation system design for irrigation water use in residential, commercial, and agricultural uses. Through the incorporation of scheduling techniques, efficient technology, and soil moisture sensors, the amount of water used for irrigation can be reduced.

Leak Detection and Repair

Water Purveyor, Ag

The strategy involves the use of sonic or other methods to detect water escaping the distribution system. Leaks at stream crossings are among the most difficult to detect and repair. Proactive programs for leak detection can reduce downtime for emergency repairs. Such programs should look to survey the entire system at least once every 5 years in a phased manner.

Night Watering

Res, Com/Indust/Inst, Golf, Ag

Watering at night can reduce evaporation by up to 30 percent or more.

Water Conservation Programs

Res, Com/Indust/Inst, Golf, Ag, Mun

Sustainable Jersey offers several tools and resources to help develop a water conservation education program. Although Sustainable Jersey is geared towards municipalities, the materials can be applied universally. [Sustainable Jersey Water Conservation Education Program](#). Other deficit mitigation strategies can be touched upon in these programs through Public Workshops, including avoiding overspray, low-flow fixtures, and upgrades to appliances. Public education can take advantage of WaterSense Labeled Factsheets for [Bathroom Faucets](#), [Showerheads](#), and [Toilets](#). Public workshops for the public focused on water use and conservation and held on or around Earth Day or World Water Day. Local environmental nonprofits and Rutgers Cooperative Extension County Agents could be engaged to participate.

Revised Irrigation Ordinance

Mun

Vernon adopted an updated Stormwater Management Ordinance on February 22, 2021 in compliance with the New Jersey Stormwater Management Rules at N.J.A.C. 7:8 but, at the time this WUCMP was prepared, does not have an Irrigation Ordinance. Vernon Should consider adopting an ordinance similar to the Model Irrigation Ordinance in **Appendix D**.

Water Bill/ Structure Comparison

There are an estimated 22,358 persons in the water service areas within the WUCMP area.¹⁸ Approximately half of those users will have above average water usage and could potentially be targeted by this strategy. It is reasonable to assume a 1% reduction in water usage using the deficit mitigation strategy, but higher rates are possible.¹⁹

¹⁸ United States Census Bureau, 2020 Decennial Census.

¹⁹ Hoffman, Jeff, "Calculating Conservation: The Competitive Power of the Water Bill, The Aquifer, Vol 24, No. 4, Spring 2010.

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Monitoring

The mitigation strategies selected to reduce the deficit in the subwatersheds must be evaluated periodically. Ideally, an annual review of each selected strategy should be conducted to determine its effectiveness and a more detailed biennial review should update the NWA tables in the WUCMP. At a minimum, a five-year review is reasonable.

It is important that ongoing determinations/analysis/monitoring be conducted to verify the effectiveness of the implementation plan. A review of water use and return data should be conducted and the WUCMP data tables should be updated accordingly. The re-evaluation will end with a calculation of the current deficit/surplus. A sample monitoring form is included in **Appendix C**. One form should be submitted for each HUC14 subwatershed. A schedule to achieve water balance should also be discussed as part of the WUCMP. Each strategy should be discussed separately and include information regarding the responsible parties for each. A database that stores monitoring data should be kept, beginning with implementation of the WUCMP and continuing after deficit elimination to document continued compliance and ensure that a deficit does not become apparent.

Annual Water Use and Return Data

Each year, a review will be conducted of water use data for these watersheds for the preceding year. This data can be obtained from the water purveyor (Veolia North America.).

The NJDEP well database, which identifies well systems by Public Water System Identification (PWSID) numbers, should also be monitored annually to see if any public, residential, commercial/industrial, irrigation, or any other well type has been constructed in the past year. Once the population is adjusted and new wells are identified, a re-evaluation of the water use in these subwatersheds should be conducted and compared to the results of the initial determination.

USGS monitoring stations are a valuable source of data when available. Some are available within these subwatersheds. However, the suitability of each should be evaluated further to determine if they offer a viable means for continued monitoring of Deficit Mitigation Strategies. Therefore, any reevaluation of NWA will be conducted by the Highlands Council using its regional methodology with incorporation of local data.

A re-evaluation of the septic system return for these subwatersheds should also be performed biennially. The re-evaluation will adjust the total number of septic systems to account for any new septic systems constructed in the subwatersheds. Identification of any new or expanded public sanitary sewer service within the subwatersheds should also be included in the re-evaluation. The existing ArcGIS database should be updated to show any new stormwater management basins where enhanced recharge has been implemented as well as any new sewer discharge points (if applicable). After identification of new return systems, a return calculation will be performed which will be compared with the initial study baseline data. The re-evaluation will end with a calculation of the current deficit/surplus. As the implementation plan is adjusted, the results for each biennial review should show a reduced or completely eliminated deficit with these subwatersheds.

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Stakeholder Participation and Ongoing Monitoring

Public education plays a significant role in the success of deficit mitigation strategies. Before any strategies are eliminated or adjusted, a comparison of actual public efforts and projected public efforts should be made. Public surveys or inquiries using statistical analyses can be used for this comparison.

In addition, meetings among the stakeholders identified in the WUCMP can be scheduled on a regular basis (i.e., annually) to discuss progress with mitigation strategy implementation. If necessary, discussions regarding refinements to the implementation plan may be included on the agenda.

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Implementation Plan

Annual Program Implementation Plan

If a deficit remains after an annual review is conducted, several issues need to be addressed. It is expected that as the implementation plan is tested and fine-tuned, it will be refined throughout the process. The annual review to refine the implementation plan for each subwatershed should include:

1. Verification of implementation for each mitigation strategy;
2. Assessment of effectiveness for each mitigation strategy;
3. Verification of effectiveness for each mitigation strategy;
4. If proven non-effective, where is the process going wrong? Where can improvements be made?
5. Elimination and/or addition of strategies; and
6. Creation of/revisions to timeline to predict deficit reduction/elimination.

Overall, it is important that annual determinations/analysis/monitoring is conducted to verify the effectiveness of each implementation plan within the subwatersheds. A database that stores annual monitoring data should be kept beginning with the implementation of this plan and continued post deficit elimination to document continued compliance and ensure that the deficit does not reappear in the future. If monitoring is done efficiently and thoroughly, elimination of deficits should be a reasonably achievable task.

Strategies

The deficit in this WUCMP area varies from marginal (0 to 0.1 MGD) to mild (0.1 to 1 MGD). With the exception of HUC14 02020007040020 and 02020007040040, data from 2000 through 2016 suggest that use patterns are consistent, and that no significant trend upward or downward is evident. Therefore, the years for which data are available appear to be appropriate years on which to base deficit mitigation planning. The two HUC14s where the deficit is increasing should be prioritized for implementation of water conservation and management measure.

The following strategies are provided as initial recommendations targeting deficit reductions in all ten (10) HUC14s. Additional strategies should be added and/or replaced as appropriate. For all phases of these strategies, education and engagement of customers and elected officials are highly recommended.

- **Water Bill Structure/Comparison:** The implementation plan for this strategy consists of the Township coordinating with Veolia North America to develop customizable charts or tables to compare and contrast individual water usage based on subwatershed totals.
- **Irrigation System Design:** The implementation plan for this strategy involves water usage data review with Veolia North America and performance of a water audit on the largest irrigation water users in the subwatershed. Once the water audit is complete, a plan can be developed with the irrigation system owners to incorporate intelligent irrigation system design parameters and measure water conserved. Through the incorporation of scheduling techniques, efficient technology, and soil moisture sensors, the amount of water used within the Township for irrigation can be reduced.
- **Leak Detection and Repair:** The implementation plan for this strategy is a study by the local water utilities, potentially in concert with other stakeholders such as the Vernon Municipal Utilities Authority and Sussex County Municipal Utilities Authority, to identify leaks within the subwatersheds, and repairs to eliminate any meaningful leaks found. Estimates of quantities lost from the identified leaks should be kept for reference and for comparison with the results of water use reduction measurements.
- **Night Watering:** Implementing a night watering program is considered a highly feasible deficit mitigation strategy. Implementation of this strategy may include a municipal ordinance permitting lawn

Water Use and Conservation Management Plan

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watering between a certain time period at night and/or creating informational guides and factsheets to educate water users in the Township.

- **Water Conservation Program:** The Township should consider developing a water conservation education program to help educate the public on methods to conserve water.
- **Revised Irrigation Ordinance:** The Township should consider drafting an Irrigation Ordinance similar to the Model Irrigation Ordinance in **Appendix D**.

Schedule to Achieve Water Balance

It is anticipated that a full year will be required to facilitate implementation of the Water Bill Structure/Comparison strategy and several years before reductions can be seen using it.

The Irrigation System Design strategy will require several years to implement from education of the public and business community, through implementation of water conserving irrigation-based measures.

The leak study can be completed in phases over the first five years, and associated modest repairs can be performed under existing maintenance budgets. Larger or more widespread repairs may require several years to implement.

A night watering and/or irrigation ordinance can be drafted and adopted within the next year.

A water conservation program can be implemented in phases, but can be implemented within the next year.

Depending on the participation rate, it may be possible to mitigate the deficit in this WUCMP within 10 years.

Responsible Parties

The responsible Parties will consist of the following:

- Homeowners within Vernon Township;
- Vernon Township municipal government;
- Veolia North America;
- Sussex County Municipal Utilities Authority; and
- Great Gorge Golf Club.

The above list represents the primary water users in this WUCMP area. The Township should consider the development of committees at the municipal level representing all communities to monitor and promote progress towards deficit reduction.

Funding Commitments

To be determined.

Next Steps

To be determined by Stakeholders.

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Appendix A: Definitions

Background

NWA is defined as Groundwater Availability minus consumptive and depletive water uses. Following is a description of the different components that were used to derive the estimate of Re-Evaluated NWA in this Water Use and Conservation Management Plan (WUCMP).

Basis for NWA

The following columns of data have been provided in the WUCMP:

Year	Ag Groundwater Availability (MGD)	Non-Ag Groundwater Availability (MGD)	Total Non-Ag Consumptive Use (MGD)	Imported Septic Return (MGD)	Non-Ag NWA (MGD)	Surplus for Potential Use (MGD)
------	-----------------------------------	---------------------------------------	------------------------------------	------------------------------	------------------	---------------------------------

The columns of data shown above are explained in the following sections.

Year

This column refers to the calendar year from which the data was obtained.

Groundwater Availability

Groundwater Availability is that portion of Groundwater Capacity that is available for human uses, absent other constraints. For the purpose of the WUCMP calculations, Groundwater Availability is divided into two components. They are:

Agricultural (Ag) Groundwater Availability

Agricultural (Ag) Groundwater Availability – Ag Groundwater Availability is not applicable in each watershed. This type of Groundwater Availability is used when the Conservation Zone covers a majority of the watershed. In this case, Ag Groundwater Availability is established and tracked separately to support sustainable agriculture.²⁰

Non-Agricultural (Non-Ag) Groundwater Availability

Non-Agricultural (Non-Ag) Groundwater Availability is the predominant type of Groundwater Availability and is used as the basis for NWA for most watersheds.

Consumptive/Depletive Uses

Consumptive and Depletive (Water) Use totals are derived from Groundwater Pumpage and Surface Water Withdrawals. These uses are divided into two categories: Consumptive and Depletive. These two types of water use are defined as follows:

- Consumptive Uses – That part of water withdrawn that is evaporated, transpired, incorporated into products or crops, consumed by humans or livestock or otherwise removed from the immediate water environment other than by transport through pipelines and other conveyances as potable water or wastewater.
- Depletive Uses – Those water uses that physically transfer water from one watershed to another through pipelines and other conveyances as potable water or wastewater, resulting in a loss of water to the originating watershed.

²⁰ Highlands Council Technical Report, Water Resources Volume II Water Use and Availability” (Highlands Council, 2008), p. 123.

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Total Non-Ag Consumptive Use

Non-Ag Consumptive Use is calculated as follows:

$$\begin{aligned} & [\text{Adjusted Consumptive Domestic Use}] + \\ & [\text{Consumptive Public Supply Use}] + \\ & [\text{Total Non-Ag Consumptive Use from Surface Water}] + \\ & [\text{Other Non-Ag Consumptive Use from Groundwater}] \end{aligned}$$

Adjusted Consumptive Domestic Use

Adjusted Consumptive Domestic Use is an estimate of the consumptive uses from areas within the watershed that are served by private residential groundwater wells and are served by septic systems. Adjusted Consumptive Domestic Use is based on the Highlands estimate of residential well pumpage, when reduced by that portion that may be served by public sewer.

Consumptive Public Supply Use

Consumptive Public Supply Use is based on the Public Potable Supply pumpage for all public potable water facilities in the watershed that get their raw water supplies from groundwater. The cumulative (raw) pumpage for these facilities was multiplied by 0.9 to account for the observed impact of maximum month pumping on annual base (stream) flows. The resultant is referred to as Adjusted Public Potable Supply.

To calculate Consumptive Public Supply, the Adjusted Public Potable Supply is reduced by the following amounts:

- Septic Return from Public Supply – This value represents the non-consumptive portion of public supply use that is returned to the watershed through septic systems.
- September Wastewater Return to Surface Water – This value represents the cumulative discharges from wastewater treatment plants, where the discharge is located in the watershed.

Total Non-Ag Consumptive Use from Surface Water

Total Non-Ag Consumptive Surface Water Use is a measure of the cumulative consumptive uses from within the watershed where the source is taken from surface water. This quantity often includes golf course irrigation.

Other Non-Ag Consumptive Use from Groundwater

Other Non-Age Consumptive Uses include the following, where the source is taken from groundwater:

- Golf course irrigation (where this use is distinguished from that supplied by surface water)
- Commercial facilities with metered usage (e.g. restaurants, businesses, and other typical nonresidential uses)
- Industrial facilities with metered usage (e.g. manufacturing)

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- Cooling water with metered usage
- Institutional facilities with metered usage (e.g. hospitals, schools)

Imported Septic Return

Imported Septic Return occurs when an existing area served by public potable water supply, and the same areas are also served by septic systems. In addition, Imported Septic Return only applies when the source of public potable water supply under comes from outside the watershed.

NWA

In most circumstances, Non-Ag NWA is referred to as simply NWA and is distinguished from Ag NWA.

(Non-Ag) NWA is the amount of Non-Ag Groundwater Availability remaining after deducting Total Non-Ag Consumptive Uses and adding Imported Septic Return.

NWA cannot exceed Groundwater Availability, whether it is Ag or Non-Ag.

When the watershed has been designated as a Conservation Zone, Ag NWA will be calculated.

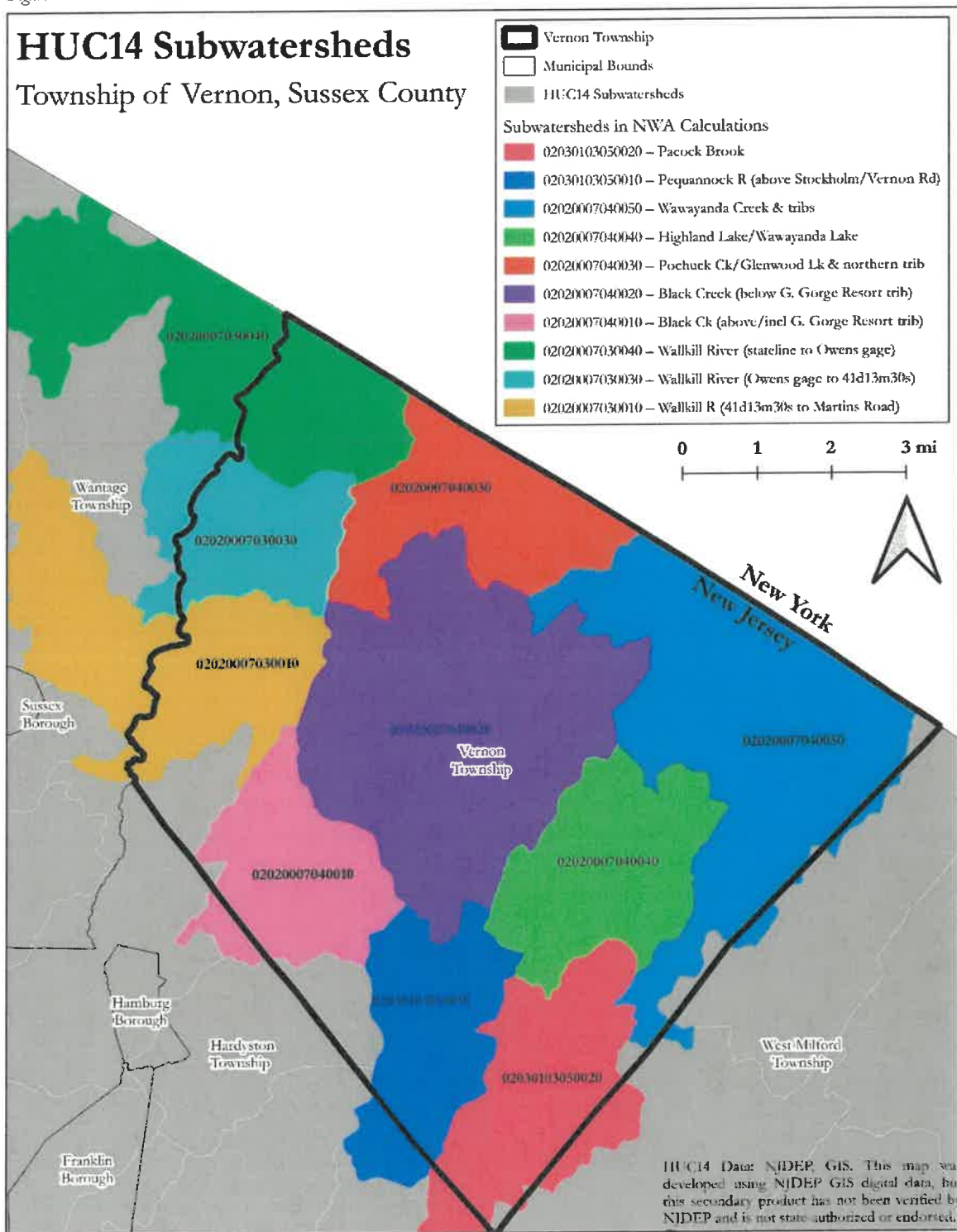
Surplus for Potential Use

When Imported Septic Return is sufficiently large, the calculation of (Non-Ag) NWA can exceed Non-Ag Groundwater Availability. In such cases, (Non-Ag) NWA is set to Non-Ag Groundwater Availability and the remaining portion is allocated under Surplus for Potential Use.

Appendix B: Maps

Water Use and Conservation Management Plan
Vernon Township, Sussex County, New Jersey

Figure 2. HUC14 Subwatersheds



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Figure 3. Land Use / Land Cover

2015 Land Use / Land Cover

Township of Vernon, Sussex County, New Jersey

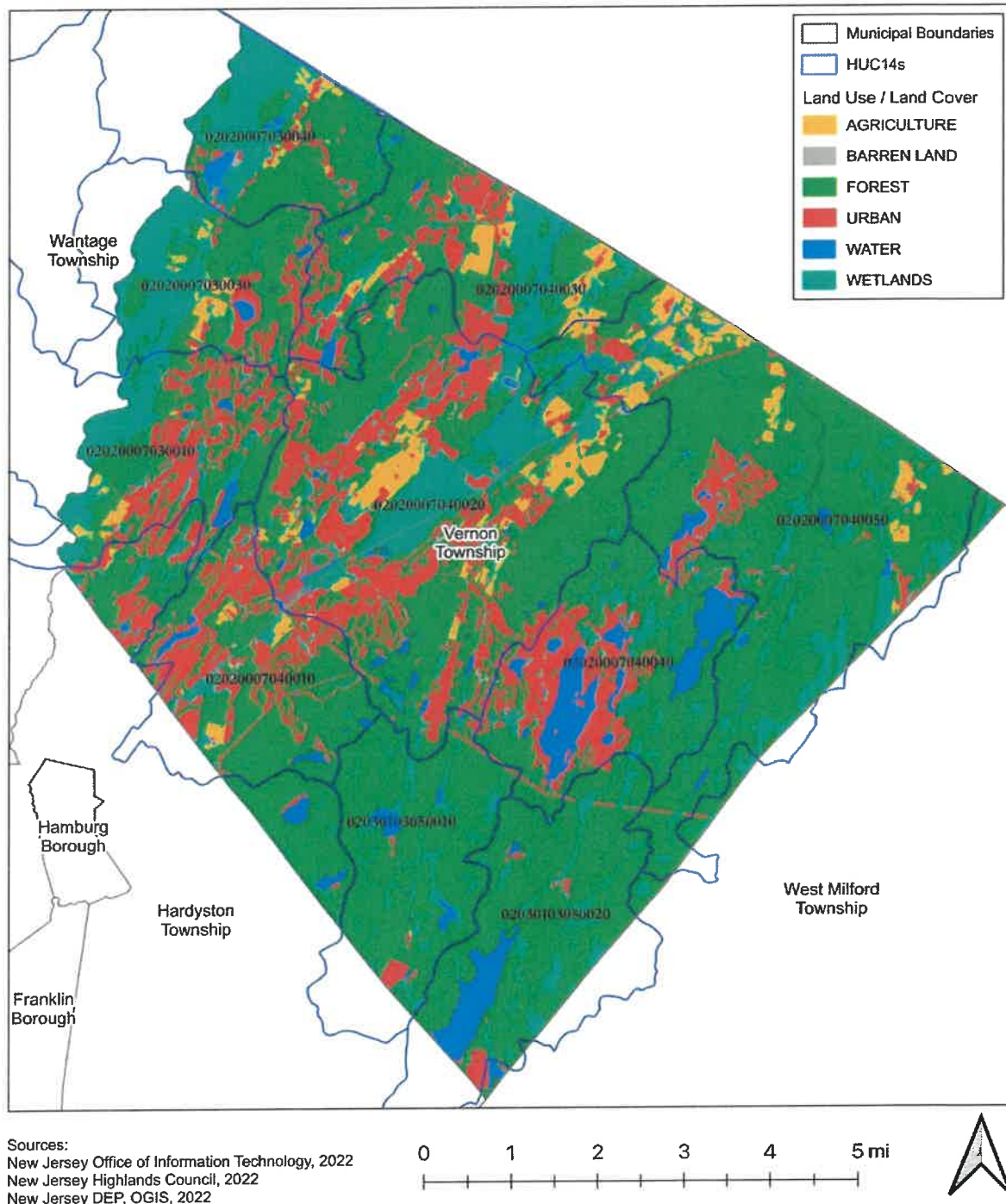


Figure 4. Land Use Capability Zones

Land Use Capability Zones

Township of Vernon, Sussex County, New Jersey

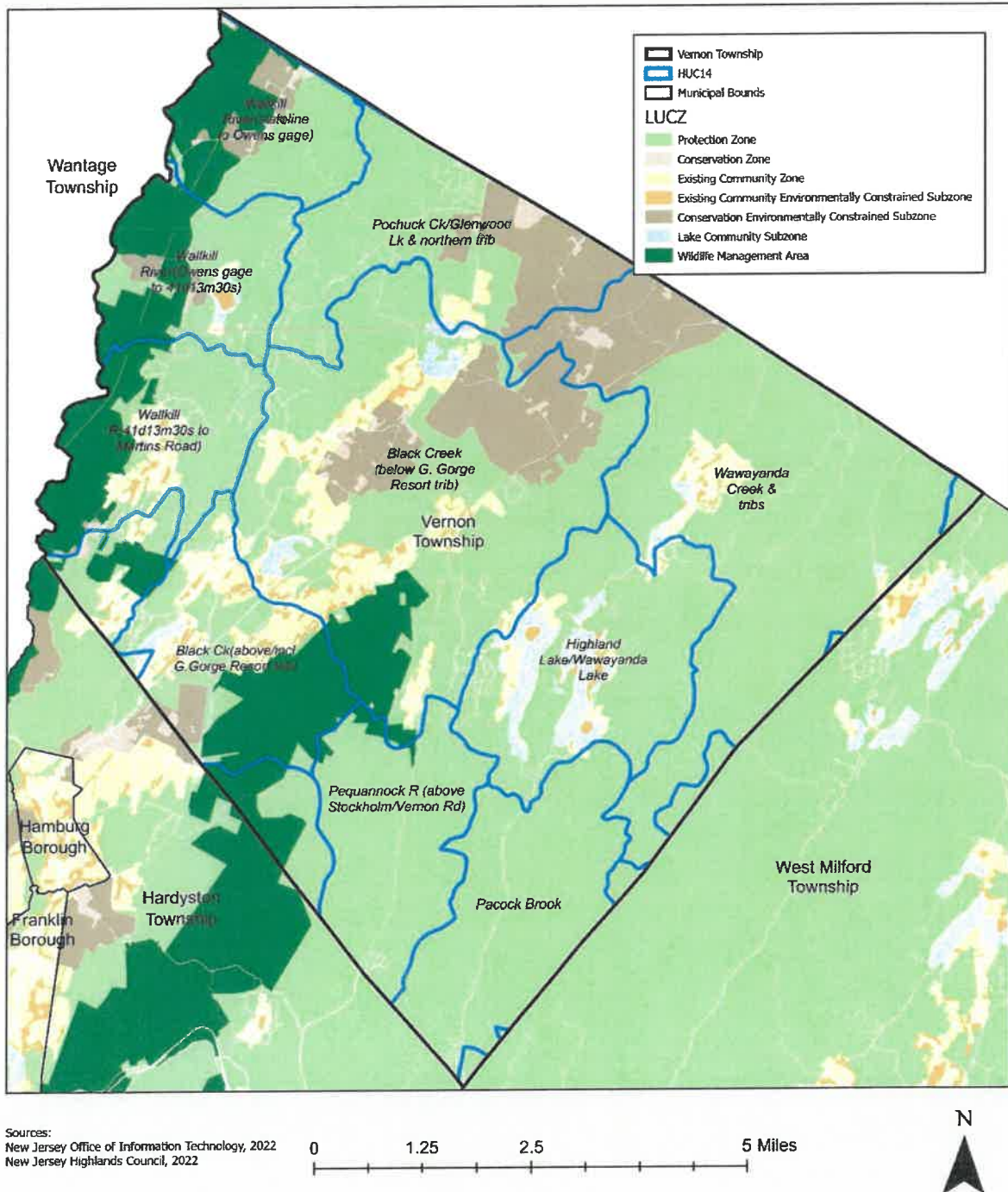
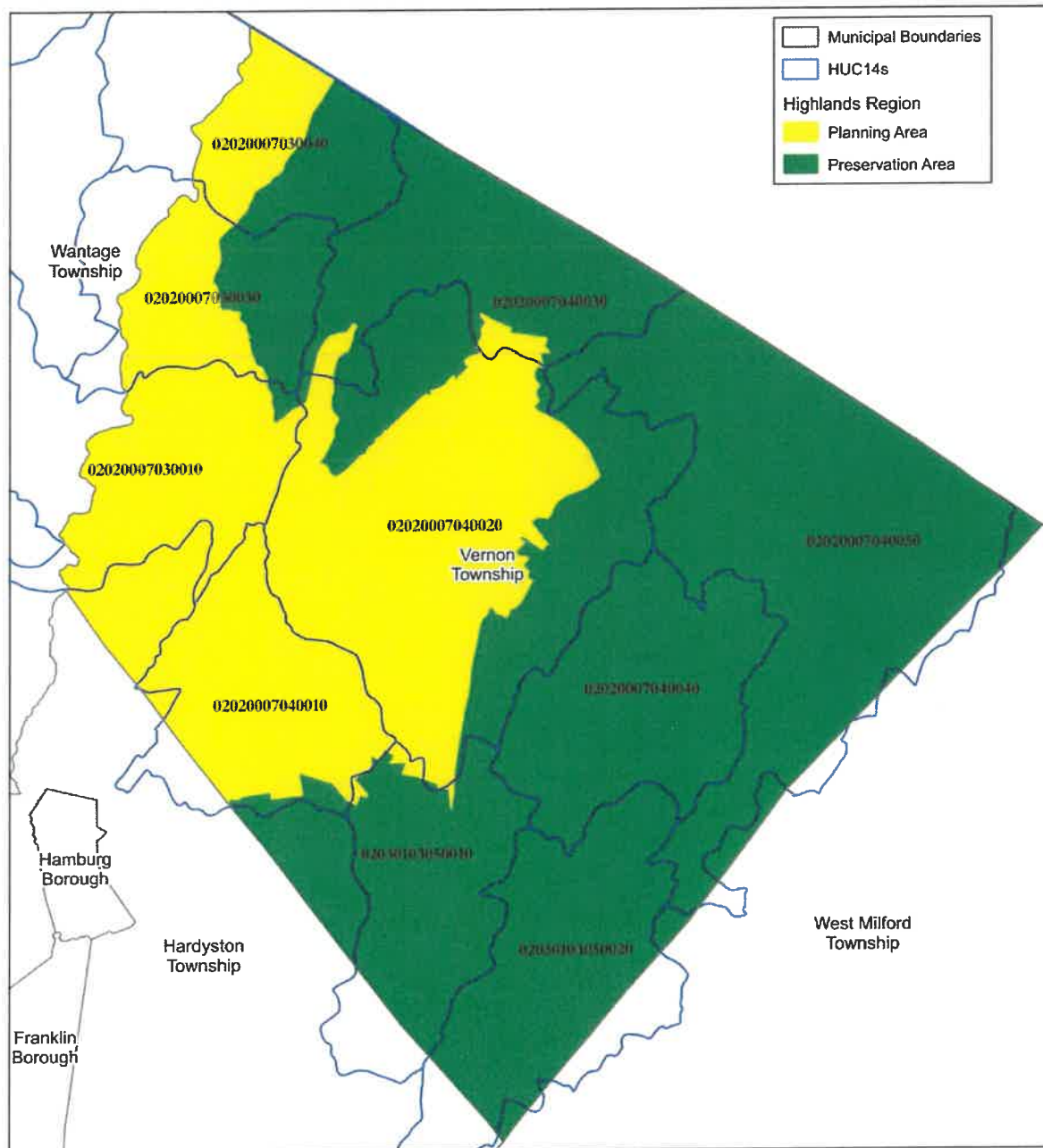


Figure 5. Highlands Preservation and Planning Areas

Highlands Preservation and Planning Areas

Township of Vernon, Sussex County, New Jersey

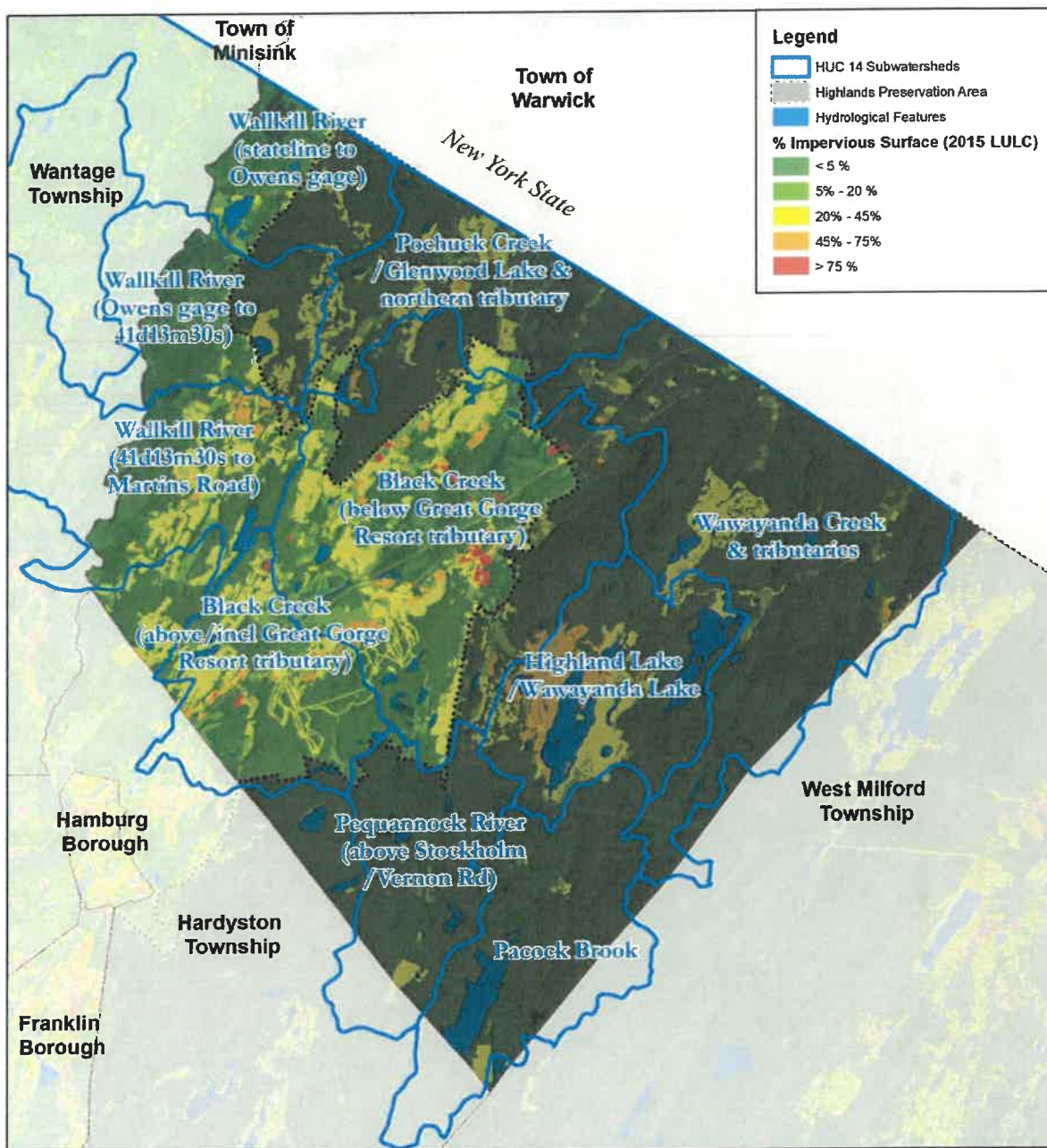


Sources:
New Jersey Office of Information Technology, 2022
New Jersey Highlands Council, 2022
New Jersey DEP, OGIS, 2022

Figure 6. *Impervious Cover*

Impervious Cover Map

Township of Vernon, Sussex County, New Jersey



Sources: New Jersey Office of Information Technology, 2022
 New Jersey Highlands Council, 2022
 New Jersey Department of Transportation, 2022

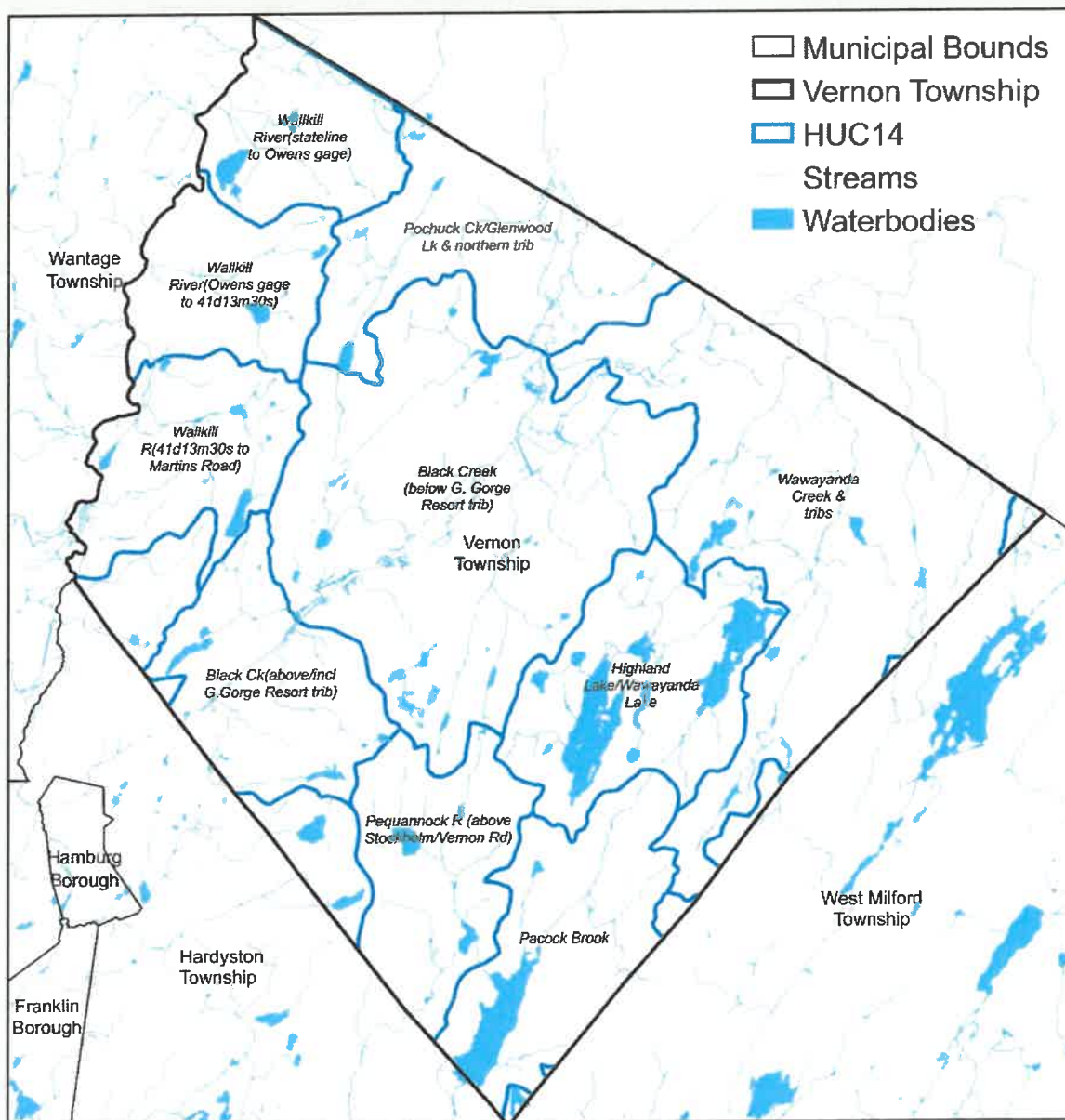
0 0.5 1 2 3 4 5 Miles



Figure 7. Major Hydrologic Features

Major Hydrologic Features

Vernon Township, Sussex County, New Jersey



Source:
 NJDEP, Bureau of GIS, 2022
 NJ OIT, OGIS, 2022

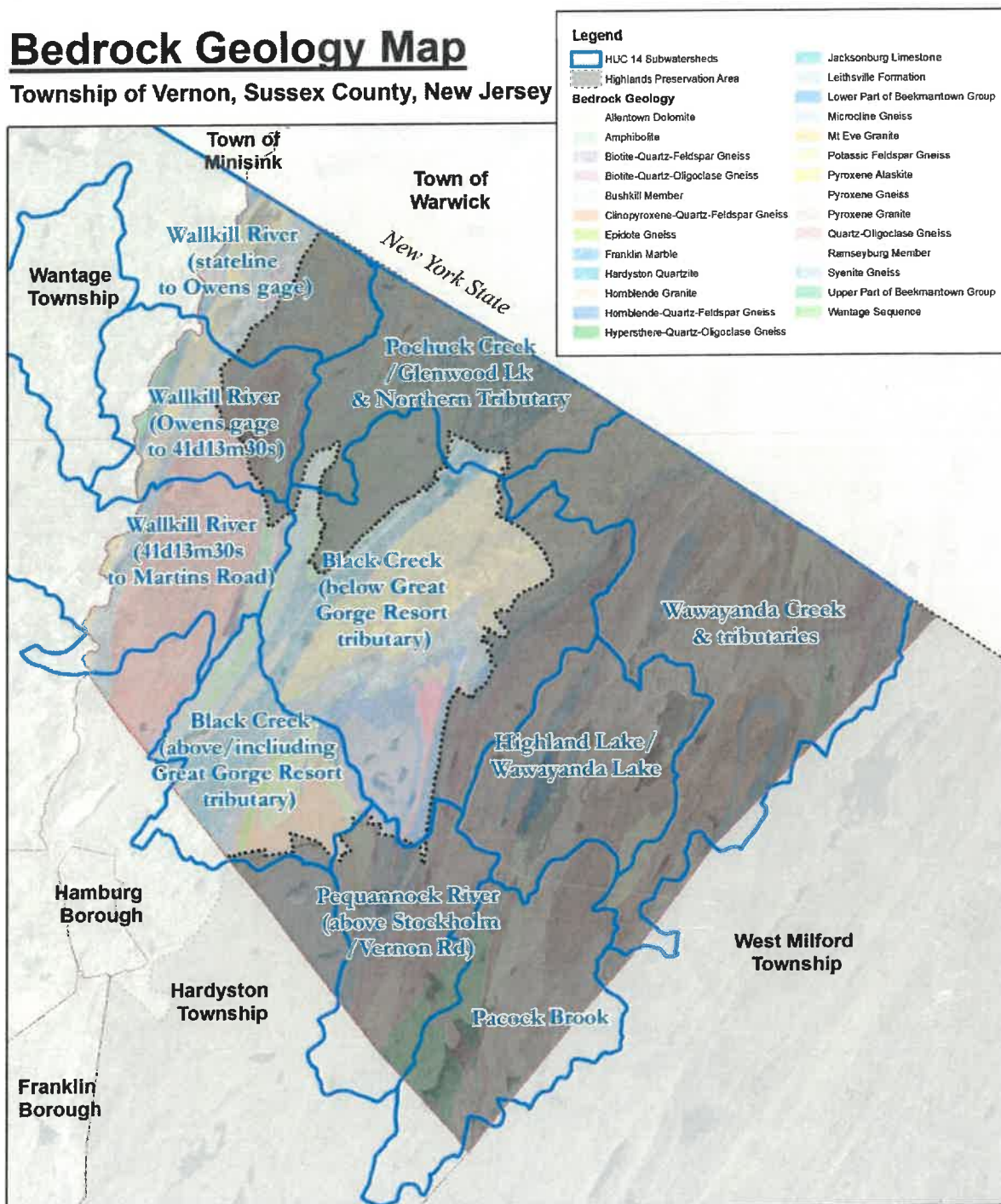
0 1 2 4 Miles



Figure 8. Bedrock Geology

Bedrock Geology Map

Township of Vernon, Sussex County, New Jersey



Sources: New Jersey Office of Information Technology, 2022
New Jersey Highlands Council, 2022
New Jersey Department of Transportation, 2022

0 0.5 1 2 3 4 5 Miles



Appendix C: Sample Monitoring Form

Water Use and Conservation Management Plan
 Vernon Township, Sussex County, New Jersey

Water Use and Conservation Management Plan (WUCMP)							
Monitoring Form							
Year:		Prepared By:					
HUC14:		Title:					
Subwatershed Name:		Date:					
Groundwater Availability (MGD)							
Baseline NWA (MGD)							
Diversion / Recharge Inventory							
Owner	Type ²		No. of Wells/ Intakes/ Discharges	MGD	Adjusted MGD	Total C/D Water Use (MGD)	Net Water Availability (NWA; MGD)
	Recharge or Withdrawal	GW or SW					
<i>Wells / Intakes</i>							
<i>Wastewater Discharge</i>							

Continued on next page

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Mitigation Strategies						
Owner	Type	Year Installed	Anticipated Benefit (GPD)	Adjustment Required to NWA? ² (Y/N) ³	Revised NWA (MGD)	Planned Mitigation Strategies for Next Year
Monitoring Sites						
Stream	Gage Location	Year Installed	Collection Frequency	Minimum September Flow of Record (cfs)	Minimum September Flow (cfs)	

¹ Use one table per HUC14.

² Maximum withdrawal from June, July, or August and associated return for groundwater (must be consistent month within HUC). September withdrawal or return for surface water.

³ For mitigation strategies that are not directly related to water use (rate structures, water conservation structures). Stormwater BMPs are an example.

Appendix D: Ranking of Mitigation Strategies

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Scoring for Conservation and Deficit Mitigation Strategies Applicable to Residential Users							
Measure	Feasibility	Effectiveness	Resilient/ Reliable	Reduction Potential	Complexity	Cost	Schedule
Avoid Overspray	3	2	1	2	1	3	3
Building and Pipe Insulation	3	2	2	1	1	2	2
Cleaning	3	3	1	2	1	2	2
Community Garden	3	2	2	1	1	2	1
Composting	3	2	2	1	1	3	3
Dishwasher Upgrade	3	2	3	2	1	2	2
Hot Water Heater Upgrade	3	2	3	2	1	2	2
Install Geotextiles Underneath Plantings	3	2	1	2	1	3	3
Irrigation Conservation	3	2	1	2	1	3	3
Irrigation System Design	3	2	3	1	1	2	2
Landscape Design	3	2	2	1	1	2	2
Leak Detection and Repair	1	1	1	1	1	1	1
Low Flow Faucets/Faucet Aerators	3	2	3	2	1	3	3
Low Flow Shower Fixtures	3	2	3	2	1	3	3
Low Flow Toilet Fixtures	3	2	3	2	1	2	3
Maintenance	3	2	2	1	1	2	3
Night Watering	3	2	2	2	1	3	3
Porous Paving	1	3	2	2	1	1	1
Rainwater Harvesting/Rain Barrels	3	3	2	1	1	2	2
Rainwater Harvesting/Rain Gardens	3	2	2	1	1	2	2
Submetering	1	1	2	1	1	1	1
Swimming Pool Covers	3	2	2	1	1	1	3
Washington Machine Upgrade	3	2	3	2	1	2	3
Water Bill Structure/Comparison	3	3	3	3	3	3	3

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Scoring for Conservation and Deficit Mitigation Strategies Applicable to Commercial/Industrial/Institutional Users							
Measure	Feasibility	Effectiveness	Resilient / Reliable	Reduction Potential	Complexity	Cost	Schedule
Avoid Overspray	3	2	1	2	2	3	3
Building and Pipe Insulation	3	2	2	1	2	2	2
Building Interceptor Dykes, Swales, and Berms	1	2	2	2	2	2	2
Cleaning	3	3	2	2	2	2	2
Composting	2	1	1	1	2	2	3
Cooling System Upgrades	2	2	2	2	1	1	1
Dishwasher Upgrade	3	2	3	2	2	2	2
Graywater Systems	3	2	3	2	2	2	1
Heating System Upgrades	2	2	2	2	1	1	1
Hot Water Heater Upgrade	3	2	3	2	2	2	2
Install Geotextiles Underneath Plantings	3	2	2	1	2	2	2
Internal Infrastructure Graywater Reuse	1	2	2	2	1	1	1
Internal Infrastructure Stormwater Reuse	3	2	2	2	2	2	1
Irrigation Conservation	3	2	1	2	2	3	3
Irrigation System Design	3	3	3	3	2	2	3
Landscape Design	3	2	2	1	2	2	2
Leak Detection and Repair	2	2	2	1	2	1	1
Low Flow Faucets/Faucet Aerators	3	2	3	2	2	2	3
Low Flow Shower Fixtures	2	2	2	2	2	2	3
Low Flow Toilet Fixtures	3	2	3	2	2	2	3
Maintenance	3	2	2	1	2	2	3
Night Watering	3	2	2	2	2	3	3
Pre-Rinse Spray Valve and Commercial Kitchen Conservation	3	2	2	2	2	2	2
Public Education Handouts	3	2	1	1	1	3	3
Rainwater Harvesting/Rain Barrels	3	2	2	1	1	2	2
Rainwater Harvesting/Rain Gardens	3	2	2	1	2	2	2
Submetering	1	1	2	1	1	1	1
Washington Machine Upgrade	2	2	3	1	2	2	3
Water Bill Structure/Comparison	2	2	3	3	3	3	3
Water Conservation Programs	3	2	1	2	2	3	3
Water Treatment Improvements	2	2	1	1	1	1	1
Waterless Restroom	1	2	1	2	1	1	1
Assisted Infiltration/Enhanced Recharge	3	2	2	2	2	2	2
Porous Paving	2	2	2	1	1	1	1
Injection Wells	1	3	2	2	1	1	1
Equipment Condensation	3	1	2	1	3	3	3
Retrofit Existing Detention Basins	3	3	3	3	2	2	1

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Scoring for Conservation and Deficit Mitigation Strategies Applicable to Water Purveyors							
Measure	Feasibility	Effectiveness	Resilient/ Reliable	Reduction Potential	Complexity	Cost	Schedule
Water Bill Structure/Comparison	3	3	3	3	3	3	3
Rate Structure	3	3	3	3	3	3	3
Meter Calibration/Replacement	2	2	2	2	3	2	1
Drought Contingency Plans	2	2	2	3	3	3	3
Water Treatment Improvements	3	3	3	3	3	3	2
Hydrant Locks	2	1	2	1	3	1	1
Well Optimization	3	2	2	2	3	2	2
Public Education Handouts	2	1	1	1	3	2	1
School Conservation Programs	2	2	2	1	3	3	1
Irrigation Education	2	2	2	1	2	3	1
Water Conservation Programs	3	3	1	1	3	2	3
Leak Detection and Repair	3	3	3	3	3	3	3
Submetering	2	2	2	2	3	2	3
Equipment Condensation	3	1	2	1	3	3	3
Maintenance	3	3	2	2	2	3	3
Water Storage Tank Management	3	2	3	2	3	2	3

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Scoring for Conservation and Deficit Mitigation Strategies Applicable to Golf Courses							
Measure	Feasibility	Effectiveness	Resilient / Reliable	Reduction Potential	Complexity	Cost	Schedule
Assisted Infiltration/Enhanced Recharge	3	2	2	2	2	2	2
Avoid Overspray	3	2	1	2	2	3	3
Building Interceptor Dykes, Swales, and Berms	1	2	2	2	2	2	2
Composting	1	1	1	1	2	2	3
Graywater Systems	2	2	2	2	1	1	1
Install Geotextiles Underneath Plantings	3	2	2	1	1	2	2
Irrigation Conservation	3	2	1	2	2	3	3
Irrigation System Design	3	3	3	3	2	2	3
Landscape Design	3	2	2	1	1	2	2
Leak Detection and Repair	2	2	2	1	3	2	2
Low Flow Faucets/Faucet Aerators	3	2	3	1	1	3	3
Low Flow Toilet Fixtures	3	2	3	1	1	2	3
Maintenance	3	2	2	1	2	3	3
Night Watering	2	2	2	2	2	3	3
Submetering	1	1	2	1	1	1	1
Turfgrass Selection	3	2	3	2	3	2	3
Water Conservation Programs	3	2	1	2	2	3	3
Waterless Restroom	1	2	1	2	1	1	1

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Scoring for Conservation and Deficit Mitigation Strategies Applicable to Agriculture							
Measure	Feasibility	Effectiveness	Resilient/ Reliable	Reduction Potential	Complexity	Cost	Schedule
Avoid Overspray	3	2	1	2	2	3	3
Cleaning	3	3	2	2	2	2	2
Composting	1	1	1	1	2	2	3
Crop and Soil Selection	1	2	1	2	1	3	3
Irrigation Conservation	3	2	1	2	2	3	3
Irrigation System Design	2	2	3	1	2	2	2
Leak Detection and Repair	2	2	2	1	3	2	2
Maintenance	3	2	2	1	2	3	3
Night Watering	2	2	2	2	2	3	3
Water Conservation Programs	3	2	1	2	2	3	3

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Scoring for Conservation and Deficit Mitigation Strategies Applicable to Municipalities							
Measure	Feasibility	Effectiveness	Resilient/ Reliable	Reduction Potential	Complexity	Cost	Schedule
Assisted Infiltration/Enhanced Recharge	3	2	2	2	1	2	2
Building Interceptor Dykes, Swales, and Berms	2	1	2	2	1	2	2
Community Garden	3	2	2	1	1	2	1
Drought Contingency Plans	2	2	2	1	1	3	3
Irrigation Education	3	2	1	2	1	3	3
Irrigation System Design	3	2	3	1	1	2	2
Landscape Incentive Program	3	2	2	1	1	1	3
Modifications to Zoning	1	1	3	3	3	3	3
Modify Stormwater Ordinance	3	2	3	3	3	3	3
Plumbing Incentive Program	3	2	2	1	1	3	2
Porous Paving	1	3	2	2	1	1	1
Public Education Handouts	3	2	1	1	1	3	3
Public Workshops	3	2	1	1	2	3	3
Retrofit Existing Detention Basins	3	3	3	3	2	2	1
Revised Irrigation Ordinance	3	2	3	3	1	2	3
School Conservation Programs	3	2	1	1	2	2	3
Water Conservation Programs	3	2	1	2	1	3	3

Appendix E: Model Irrigation Ordinance

Model Irrigation Ordinance

§ 1.0 Purpose.

(a) It has been found:

- (1) that the waters of the jurisdiction are a valuable resource, of limited supply and are subject to ever increasing demands;
- (2) that it is the policy of the jurisdiction to promote the conservation and efficient use of water and to prevent the waste of this valuable resource;
- (3) that landscapes are essential to the quality of life by providing areas for active and passive recreation, an enhancement to the environment by cooling and mitigating heat island effect, cleaning air and water, preventing or mitigating erosion, offering areas of respite and protection, and providing habitat for wildlife; and
- (4) that the right to use water is limited to the amount reasonably required for the beneficial use of maintaining a healthy landscape.

(b) Consistent with these findings, the purpose of this model irrigation ordinance is to:

- (1) complement the values and benefits of landscaping practices that integrate the conservation and efficient use of water to maximize the benefits of managed landscapes;
- (2) establish a structure for planning, designing, installing, maintaining and managing a water efficient irrigation system in new construction or renovated projects;
- (3) establish provisions for water management practices and water waste prevention for existing irrigation systems;
- (4) work in conjunction with established landscape provisions and requirements that are in character with the values of the community;

§ 2.0 Applicability.

(a) Effective (insert date) , this ordinance shall apply to all of the following landscape projects:

- (1) new residential landscapes with an aggregate landscape area equal to or greater than (acre or square feet) requiring a building or landscape permit, plan check or design review;
- (2) non-residential landscape projects with an aggregate landscape area equal to or greater than (acre or square feet) requiring a building or landscape permit, plan check, or design review;
- (3) new or renovated landscapes for public agency projects

(b) This ordinance does not apply to:

- (1) registered local, state or federal historical sites;
- (2) ecological restoration projects that do not require a permanent irrigation system.

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§ 3.0 Definitions.

The terms used in this ordinance have the meaning set forth below:

- (a) “application rate” “precipitation rate” the rate at which water is applied to the landscape by the irrigation system measured in inches per hour.
- (b) “backflow prevention device” or “backflow preventer” means a safety device used to prevent pollution or contamination of the water supply due to the reverse flow of water from the irrigation system.
- (c) “Certificate of Completion” means the document showing that the project has been installed and inspected according to the approved irrigation plan.
- (d) “certified irrigation designer” means a person certified to design irrigation systems by an accredited academic institution, Irrigation Association’s Certified Irrigation Designer program, American Society of Irrigation Consultant’s Professional Irrigation Consultant designation or other irrigation designer program labeled by U.S. Environmental Protection Agency’s WaterSense program.
- (e) “certified landscape irrigation auditor” means a person certified to perform landscape irrigation audits by an accredited academic institution, a professional trade organization or other program labeled by U.S. Environmental Protection Agency’s WaterSense program.
- (f) “check valve” or “anti-drain valve” means a valve located under a sprinkler head, or other location in the irrigation system, to hold water in the system to prevent drainage from sprinkler heads when the sprinkler is off.
- (g) “distribution uniformity” means the measure of the uniformity of irrigation water over a defined area.
- (h) “ecological restoration project” means a project where the site is intentionally altered to establish a defined, indigenous, historic ecosystem.
- (i) “emission device” is a component of the system that disperses water to the landscape and includes sprinklers, bubbler, emitters, microsprays, etc.
- (j) “established landscape” means the point at which plants in the landscape have developed significant root growth into the soil. Typically, most plants are established after one or two years of growth.
- (k) “establishment period of the plants” means the first year after installing the plant in the landscape or the first two years if irrigation will be terminated after establishment. Typically, most plants are established after one or two years of growth. Native habitat mitigation areas and trees may need three to five years for establishment.
- (l) “evapotranspiration” means the quantity of water evaporated from adjacent soil and other surfaces and transpired by plants.
- (m) “flow rate” means the rate at which water flows through pipes, valves and emission devices, measured in gallons per minute, gallons per hour, or cubic feet per second.
- (n) “flow meter” means an inline device installed at or near the supply point of the irrigation system that produces a repeatable signal proportional to flow rate. Flow meters must be connected to an

irrigation controller, or monitor capable of receiving flow signals and operating master valves. This combination flow meter/controller may also function as a landscape water meter or sub meter.

(o) "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to, wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines, and laundry tubs, but does not include wastewater from kitchen sinks or dishwashers.

(p) "hardscapes" means any durable material (pervious and non-pervious).

(q) "hydrozone" means a portion of the landscaped area having plants with similar water needs and rooting depth, soil type and exposure. A hydrozone may be irrigated or non-irrigated.

(r) "irrigation audit" means an in-depth evaluation of the performance of an irrigation system conducted by a Certified Landscape Irrigation Auditor. An irrigation audit includes, but is not limited to: inspection, system tune-up, system test with distribution uniformity or emission uniformity, reporting overspray or runoff that causes overland flow, and preparation of an irrigation schedule. The audit shall be conducted in a manner consistent with the Irrigation Association's Landscape Irrigation Auditor Certification program or other U.S. Environmental Protection Agency "WaterSense" labeled auditing program.

(s) "Irrigation Plan" means the documents including the scaled drawing plan and any required forms showing calculations that are reviewed, approved and for which a permit could be issued.

(t) "irrigation survey" means an evaluation of an irrigation system that is less detailed than an irrigation audit. An irrigation survey includes, but is not limited to: inspection, system test, and written recommendations to improve performance of the irrigation system.

(u) "irrigation water use analysis" means a review of water use data based on meter readings and billing data.

(v) "landscape water meter" means an inline device installed at the irrigation supply point that measures the flow of water into the irrigation system and is connected to a totalizer to record water use.

(w) "lateral line" means the water delivery pipeline that supplies water to the emitters or sprinklers from the valve.

(x) "local agency" means a city or county, including a charter city or charter county, that is responsible for adopting and implementing the ordinance. The local agency is also responsible for the enforcement of this ordinance, including but not limited to, approval of a permit and plan check or design review of a project.

(y) "local water provider" means any entity, including a public agency, city, county, or private water company that provides retail water service.

(z) "low flow irrigation" "drip irrigation" means the application of irrigation water at low pressure through a system of tubing or lateral lines and emitters such as point source emitters, dripper lines, microsprays and bubblers. Low flow irrigation systems apply small volumes of water slowly at or near the root zone of plants.

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(aa) “main line” means the pressurized pipeline that delivers water from the water source to the valve or outlet.

(bb) “master shut-off valve” is an automatic valve installed at the irrigation supply point which controls water flow into the irrigation system. When this valve is closed water will not be supplied to the irrigation system.

(cc) “microclimate” means the climate of a small, specific area that may contrast with the climate of the overall landscape area due to factors such as wind, sun exposure, plant density, or proximity to reflective surfaces.

(dd) “mulch” means any organic material such as leaves, bark, straw, compost, or inorganic mineral materials such as rocks, gravel, and or decomposed granite left loose and applied to the soil surface for the beneficial purposes of reducing evaporation, suppressing weeds, moderating soil temperature, and preventing soil erosion.

(ee) “new construction” means, for the purposes of this ordinance, a new building with a landscape or other new landscape, such as a park, playground, or greenbelt without an associated building.

(ff) “non-residential landscape” means landscapes in commercial, institutional, industrial and public settings that may have areas designated for recreation or public assembly. It also includes portions of common areas of common interest developments with designated recreational areas.

(gg) “operating pressure” means the pressure at which the parts of an irrigation system are designed by the manufacturer to operate.

(hh) “overhead sprinkler irrigation systems” means systems that deliver water through the air (e.g., spray heads and rotors).

(ii) “overspray” means the irrigation water which is delivered beyond the target area.

(jj) “permit” means an authorizing document issued by local agencies for new construction or renovated landscapes.

(kk) “permeable” means any surface or material that allows the passage of water through the material and into the underlying soil.

(ll) “project applicant” means the individual or entity submitting an Irrigation Plan to request a permit, plan check, or design review from the local agency. A project applicant may be the property owner or designee including the installation contractor.

(mm) “rain sensor” or “rain sensing shutoff device” means a component which automatically suspends an irrigation event when it rains.

(nn) “reclaimed water”, “recycled water”, or “treated sewage effluent water” means treated or recycled wastewater of a quality suitable for non-potable uses such as landscape irrigation and water features. This water is not intended for human consumption.

(oo) “record drawing” means a set of reproducible drawings which show changes in the work made during construction and which are usually based on drawings marked up in the field and other data furnished by the contractor.

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(pp) “renovated landscape” means any re-landscaping project that requires a permit, plan check, or design review and the modified landscape area is equal to or greater than (square feet).

(qq) “remote control valve” means a device used to control the flow of water in the irrigation system.

(rr) “residential landscape” means landscapes surrounding single or multifamily homes.

(ss) “runoff” means water which is not absorbed by the soil or landscape to which it is applied and flows from the landscape area. For example, runoff may result from water that is applied at too great a rate or duration.

(tt) “smart irrigation controller” means an automatic timing device with nonvolatile memory used to remotely control valves that operate an irrigation system. Smart irrigation controllers are able to self-adjust and schedule irrigation events using either evapotranspiration (weatherbased), soil moisture data or flow data or combination of methods.

(uu) “soil moisture sensing device” or “soil moisture sensor” means a device that measures the amount of water in the soil. The device may also suspend or initiate an irrigation event.

(vv) “sprinkler”, “sprinkler head” means a device which delivers water through a nozzle.

(ww) “static water pressure” means the pipeline or municipal water supply pressure when water is not flowing.

(xx) “station” means an area served by one valve or by a set of valves that operate simultaneously.

(yy) “sub meter” means a metering device to measure water applied to the landscape that is installed after the primary utility water meter.

(zz) “turf grass” means a ground cover surface of mowed grass.

(aaa) “watering window” means the time of day irrigation is allowed.

(bbb) “zone” means a group of sprinklers connected to one remote control valve.

§ 4.0 Irrigation Design Plan.

(a) This section applies to landscaped areas requiring permanent irrigation. For the efficient use of water, an irrigation system shall be planned and designed according to the most current version of the Landscape Irrigation Best Management Practices, by the Irrigation Association and the American Society of Irrigation Consultants.

(b) An irrigation design plan meeting the following design criteria shall be submitted for review and approval by the jurisdiction having authority and a permit issued if required.

(1) Plan requirements:

(a) The irrigation design plan, at a minimum, shall contain:

- (1) a scaled plan showing property lines, easements, existing or proposed structures, impervious surfaces, and existing natural features and if a new landscape project then consistent with the approved landscape plan;

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(2) location and size of the point of connection to the water supply and meter locations along with static water pressure at the point of connection to the water supply and dynamic water pressure for proper system operation;

(3) reclaimed/recycled water or alternative water sources such as gray water shall comply with local plumbing codes including marking of pipes and system components;

(4) location, type and size of all components of the irrigation system, including, backflow preventer, smart irrigation controllers, main and lateral lines, manual valves, remote control valves, sprinkler heads, moisture sensing devices, rain switches, quick couplers, pressure regulators;

(5) an irrigation legend showing the identification of irrigation components;

(6) flow rate (gallons per minute), application rate (inches per hour), and design operating pressure (pressure per square inch) for each irrigation zone;

(7) installation details for each of the irrigation components.

(b) Designer statements and signature:

(1) the following statement: "I have complied with the criteria of the ordinance and applied them accordingly for the efficient use of water in the irrigation design plan"; and

(2) the signature of a qualified irrigation professional such as licensed landscape architect with irrigation credentials, certified irrigation designer, licensed/certified landscape contractor, or any other person authorized to design an irrigation system within the jurisdiction.

(2) Irrigation system requirements:

(a) Backflow prevention devices shall be required to protect the potable water supply from contamination by the irrigation system and comply with local plumbing codes.

(b) Manual shut-off valves (such as a gate valve, ball valve, or butterfly valve) shall be required, as close as possible to the point of connection of the water supply and to isolate sections of mainline on larger systems, to minimize water loss in case of an emergency (such as a main line break) or routine repair.

(c) Master shut-off valves integrated with the automatic irrigation controller are required on all projects with a point of connection flow rate exceeding 15 gallons per minute (GPM) except irrigation systems that make use of technologies that allow for the control of sprinklers that are individually pressurized.

(d) Dedicated landscape water meters, defined as either a dedicated water service meter or private sub meter, shall be installed for all non-residential irrigated landscapes of 60,000 sq. ft. and residential irrigated landscapes of 40,000 sq. ft. or greater. A landscape water meter may be either:

(1) a customer service meter dedicated to landscape use provided by the local water provider;

(2) a privately owned meter or sub meter to measure irrigation water usage.

(e) Flow meters that detect and report high flow conditions created by system damage or malfunction are required for all non-residential landscapes

(f) Smart irrigation controllers labeled by U.S. Environmental Protection Agency's WaterSense Program or with published reports posted on the Smart Water Application Technologies website. If a

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flow meter is used, then the controller shall be able to use inputs from the flow meter/sensor to control irrigation if flows are abnormal.

(g) Sensors (rain, freeze, wind, soil moisture etc.), either integral or auxiliary, that suspend or alter irrigation operation during unfavorable weather conditions or when sufficient soil moisture is present shall be required on all irrigation systems, as appropriate for local climatic conditions.

(h) Shall be designed to prevent runoff, low head drainage, overspray, or other similar conditions where irrigation water flows onto non-targeted areas, such as adjacent property, non-irrigated areas, hardscapes, roadways, or structures.

(i) The design of the irrigation system shall conform to the hydrozones of the landscape design plan.

(j) The irrigation system must be designed and installed to meet, at a minimum, any water windows or restrictions for operation such as day of the week and hours of the day.

(k) The irrigation systems shall be designed to ensure that the operating pressure at each emission device is within the manufacturer's recommended pressure range for optimal performance.

(1) To control excessive pressure above the required operating pressure of the irrigation system emission devices, pressure-regulating devices such as valve pressure regulators, sprinkler head pressure regulators, inline pressure regulators, or other devices shall be installed to meet the required operating pressure of the emission devices.

(2) If water pressure is below the required operating pressure of the emission devices, then a booster pump shall be installed so that emission devices shall operate at the manufacturer's recommended pressure.

(3) The pressure and flow measurements shall be identified at the design stage and verified prior to the installation of the system.

(l) All irrigation emission devices shall meet the requirements set in the American National Standards Institute (ANSI) standard, ASABE/ICC 802-2014 "Landscape Irrigation Sprinkler and Emitter Standard" authored by the American Society of Agricultural and Biological Engineers and the International Code Council and verified by an independent third-party.

(m) Sprinklers within a zone shall have matched precipitation rates, unless otherwise directed by the manufacturer's recommendations.

(n) Sprinkler spacing shall be designed to achieve the highest possible distribution uniformity using the manufacturer's recommendations. All sprinkler heads installed in the turf grass areas shall have a distribution uniformity of 0.65 or higher using the protocol defined in ASABE/ICC 802-2014 standard.

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(3) Hydrozone requirements:

- (a) Each remote control valve shall irrigate a hydrozone with similar microclimate, soil conditions, slope, and plant materials with similar water demand.
- (b) Relevant soils information such as soil type and infiltration rate shall be utilized when designing irrigation systems.
- (c) Narrow or irregularly shaped areas, including turf grass areas, less than eight feet in dimension in any direction shall not utilize overhead sprinkler irrigation.
- (d) Slopes greater than 25% shall not use sprinklers with an application rate exceeding 0.75 inches per hour. Exception: If the irrigation designer specifies an alternative design or technology and clearly demonstrates no runoff or erosion will occur. Prevention of runoff and erosion shall be confirmed during the irrigation audit.
- (e) Sprinkler heads and other emission devices shall be selected based on what is appropriate for the plants and soil type within that hydrozone. Minimum pop-up height for sprinklers in turf grass areas shall be four inches.
- (f) Check valves or anti-drain valves are required on sprinkler heads where low-point drainage could occur.
- (g) In mulched planting areas, the use of low flow irrigation is required for any vegetation that will exceed 12 inches mature height.
- (h) Where feasible, trees shall be placed on separate valves from shrubs, groundcovers, and turf grass to facilitate the appropriate irrigation of trees. The mature size and extent of the root zone shall be considered when designing irrigation for the tree.

§ 5.0 Certificate of Completion.

- (a) Proper installation and management of the irrigation system shall conform to the approved irrigation plan.
- (b) The Certificate of Completion shall include the following elements:
 - (1) project information sheet that contains:
 - (a) date;
 - (b) project name;
 - (c) project address and location;
 - (d) project applicant name, telephone, and mailing address; and
 - (e) property owner name, telephone, and mailing address;
 - (2) certification by the signer of the irrigation design plan, and the licensed landscape/irrigation contractor that the irrigation system has been installed per the approved Irrigation Plan;
 - (a) record drawings showing changes made in the field during construction shall be included with the certification;

Water Use and Conservation Management Plan

Vernon Township, Sussex County, New Jersey

- (b) A diagram of the irrigation plan showing hydrozones and the irrigation scheduling parameters shall be kept with the irrigation controller for subsequent management purposes.
 - (3) irrigation maintenance schedule;
 - (4) irrigation audit report.
- (c) The project applicant shall:
 - (1) submit the signed Certificate of Completion to the local agency for review;
 - (2) ensure that copies of the approved Certificate of Completion are submitted to the local water provider and property owner or his or her designee.
- (d) The local agency shall:
 - (1) receive the signed Certificate of Completion from the project applicant;
 - (2) approve or deny the Certificate of Completion. If the Certificate of Completion is denied, the local agency shall provide information to the project applicant regarding reapplication, appeal, or other assistance.

§ 6.0 Irrigation Management.

- (a) Irrigation management includes planning water use, monitoring water use and verifying that equipment is maintained and properly adjusted for optimal performance.
- (b) As the landscape matures, adjustments to the system should be in harmony with the original intent of the irrigation design.
- (c) Scheduling of irrigation events should match the needs of the plants to maintain health, appearance and meet the function of the landscape.

§ 6.1 Irrigation System Maintenance Schedule.

- (a) Irrigation systems shall be maintained to ensure proper operation and function for water use efficiency. A regular maintenance schedule shall be submitted with the Certificate of Completion.
- (b) A regular maintenance schedule shall include, but not be limited to, routine inspection; auditing, adjustment and repair of the irrigation system and its components. Operation of the irrigation system outside the normal watering window is allowed for auditing and system maintenance.
- (c) Repair of all irrigation equipment shall be done with the originally installed components or their equivalents or with components with greater efficiency.

§ 6.2 Irrigation Scheduling.

- (a) For the efficient use of water, all irrigation schedules shall be developed, managed, and evaluated to utilize the minimum amount of water required to maintain plant health. Irrigation schedules shall meet the following criteria:
 - (1) Irrigation scheduling shall be regulated by smart irrigation controllers that utilize evapotranspiration data or soil moisture data.

Water Use and Conservation Management Plan

Vernon Township, Sussex County, New Jersey

(2) Overhead irrigation shall be scheduled between 8:00 p.m. and 10:00 a.m. unless weather conditions prevent it. If allowable hours of irrigation differ from the local water purveyor, the stricter of the two shall apply. Operation of the irrigation system outside the normal watering window is allowed for auditing and system maintenance.

(3) Parameters used to set the automatic controller shall be developed and submitted for each of the following:

- (A) the plant establishment period;
- (B) the established landscape; and
- (C) temporarily irrigated areas.

(4) Each irrigation schedule shall consider for each station all of the following that apply:

- (A) irrigation interval (days between irrigation);
- (B) irrigation run times (hours or minutes per irrigation event to avoid runoff);
- (C) number of cycle starts required for each irrigation event to avoid runoff;
- (D) amount of applied water scheduled to be applied on a monthly basis;
- (E) application rate setting;
- (F) root depth setting;
- (G) plant type setting;
- (H) soil type;
- (I) slope factor setting;
- (J) shade factor setting; and
- (K) irrigation uniformity or efficiency setting.

§ 6.3 Landscape Irrigation Audit.

(a) All landscape irrigation audits shall be conducted by a third-party certified landscape irrigation auditor. Irrigation audits shall not be conducted by the person or company who installed the irrigation system.

(b) For new construction and renovated landscape projects the project applicant shall submit an irrigation audit report with the Certificate of Completion to the local agency. The irrigation audit report may include, but is not limited to: inspection, system tune-up, system test with distribution uniformity, reporting overspray or run off that causes overland flow, and preparation of an irrigation schedule, including configuring irrigation controllers with application rate, soil types, plant factors, slope, exposure and any other factors necessary for accurate programming;

(c) In large projects or projects with multiple landscape installations (i.e., production home developments) an auditing rate of approximately 50% will satisfy this requirement.

§ 7.0 Provisions for Existing Irrigation Systems.

§ 7.1 Irrigation Audit, Irrigation Survey, and Irrigation Water Use Analysis.

(a) This section shall apply to all existing landscapes that were installed before the date of adoption of this ordinance and are over 1 acre in size.

(1) For all landscapes that have a dedicated landscape water meter, the local agency shall administer programs that may include, but not be limited to, irrigation water use analyses, irrigation surveys, and irrigation audits to evaluate water use and provide recommendations as necessary to reduce landscape water use.

(2) For all landscapes that do not have a meter, the local agency shall administer programs that may include, but not be limited to, irrigation surveys and irrigation audits to evaluate water use and provide recommendations as necessary in order to prevent water waste.

(b) All landscape irrigation audits shall be conducted by a certified landscape irrigation auditor.

§ 7.2 Water Waste Prevention.

(a) Local agencies shall prevent water waste resulting from inefficient landscape irrigation on existing landscapes by prohibiting runoff from leaving the target landscape due to low-head drainage, overspray, or other similar conditions where water flows onto adjacent property, non-irrigated areas, walks, roadways, parking lots, or structures. Penalties for violation of these prohibitions shall be established locally.

(b) Restrictions regarding overspray and runoff may be modified if:

(1) the landscape area is adjacent to permeable surfacing and no runoff occurs; or

(2) the runoff is captured and reused for irrigation; or

(3) the adjacent non-permeable surfaces are designed and constructed to drain entirely to landscaping.

TOWNSHIP OF VERNON

RESOLUTION #25-227

RESOLUTION OF THE TOWNSHIP OF VERNON, COUNTY OF SUSSEX, STATE OF NEW JERSEY, AUTHORIZING THE DISPOSITION OR SALVAGE OF OBSOLETE EQUIPMENT IN THE POSSESSION OF THE TOWNSHIP AT AUCTION ON GOVDEALS.COM

WHEREAS, the Township has requested that the Township Council authorize the disposition of equipment currently in the possession of Vernon Township and also request to salvage the equipment should the asking price and second offer be rejected; and,

WHEREAS, such surplus items may be sold at public auction to the highest bidder in accordance with N.J.S.A. 40A:11-36; and

WHEREAS, the Township Council has reviewed a request which describes the items aforesaid to be sold at the auction; and

WHEREAS, the items to be sold are:

LOT# 1

2000 MACK RD688SX ROLL OFF TRUCK
VIN# 1M2P268C1YM052134

LOT# 2

2015 CHEVY EXPRESS 3500 BRAUN AMBULANCE
VIN# 1GB3G2CL6F1236265

LOT# 3

ITEMS TO OUTFIT A 2021 FORD POLICE UTILITY INTERCEPTOR
1 JOTTODESK FRONT FULL CAGE PARTITION
1 JOTTODESK REAR CAGE PARTITION
1 JOTTODESK REAR BIO SEAT
1 LUND CENTER CONSOLE
1 SETINA PUSH BAR WITH EMERGENCY LIGHTS
1 FEDERAL SIGNAL LED LIGHT BAR
1 FEDERAL SIGNAL LIGHT CONTROLLER

LOT# 4

ITEMS TO OUTFIT A 2021 POLICE UTILITY INTERCEPTOR
1 JOTTODESK FRONTFULL CAGE PARTITION
1 JOTTODESK REAR CAGE PARTITION
1 JOTTODESK REAR BIO SEAT
1 LUND CENTER CONSOLE
1 SETINA PUSH BAR WAITH EMERGENCY LIGHTS
1 FEDERAL SIGNAL LED LIGHT BAR
1 FEDERAL SIGNAL LIGHT CONTROLLER

LOT# 5

BROOMS FOR 8' MB PULL BEHIND SWEEPER
BROOMS FIT MODEL 53-H

LOT# 6

SNO-PRO UTV SALT SPREADER

NOW, THEREFORE, BE IT RESOLVED by the Township Council of the Township of Vernon, County of Sussex, State of New Jersey, as follows:

1. That the Division of Purchasing, or its designee, be and hereby is authorized to sell at auction to the highest bidder, any and all surplus items as described.
2. The sale of the surplus property shall be conducted through [Govdeals.com](https://www.govdeals.com) in accordance with the terms and conditions at <https://www.govdeals.com/en/content/site-terms>: and
3. The sale will be conducted online with proposed live date of September 22, 2025 and the address of the auction site is www.govdeals.com.
4. The sale is being conducted pursuant to Local Finance Notice 2019-15.
5. The surplus property as identified shall be sold in an “as-is” condition without express or implied warranties with the successful bidder required to execute a Hold Harmless and Indemnification Agreement concerning use of said surplus property.
6. The Township reserves the right to accept or reject any bid submitted. That the Division of Purchasing, or its designee, be and hereby is authorized to sell at auction to the highest bidder, any and all surplus items as described.

BE IT FURTHER RESOLVED, pursuant to N.J.S.A. 40A:11-36 that formal public notification will be provided by the publication of a Legal Notice in the official newspaper, the New Jersey Herald, not less than seven (7) or more than fourteen (14) days prior to the scheduled auction.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

TOWNSHIP OF VERNON

RESOLUTION #25-228

**AUTHORIZING THE APPLICATION FOR NEW JERSEY DEPARTMENT OF
COMMUNITY AFFAIRS RECREATIONAL OPPORTUNITIES FOR INDIVIDUALS
WITH DISABILITIES GRANT**

WHEREAS, the Township of Vernon desires to apply for and obtain a grant from the New Jersey Department of Community Affairs, for approximately \$16,000.00 State share with \$4,000.00 local share for a total contract of \$20,000.00 for 2025/2026 to provide therapeutic horse back riding recreational opportunities for people with disabilities.

BE IT THEREFORE RESOLVED, that the Township of Vernon does hereby authorize the application for such a grant; and upon receipt of the grant agreement from the New Jersey Department of Community Affairs, does further authorize the execution of the agreement; and also, upon receipt of the fully executed agreement from the Department, does further authorize the expenditure of such funds pursuant to the terms of said Agreement between the Township of Vernon and the New Jersey Department of Community Affairs.

BE IT FURTHER RESOLVED, that the persons whose names, titles and signatures appear below are authorized to sign the application, the agreement and any other documents necessary in connection therewith:

SIGNED: _____
Anthony Rossi, Mayor

SIGNED: _____
Marcy Gianattasio, Municipal Clerk

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

TOWNSHIP OF VERNON

RESOLUTION #25-229

Authorize the Award of a Required Disclosure Contract with Mobile Container Service for Recycling Container Repair

WHEREAS, the Township has a need for recycling container repair services for Vernon Township's Department of Public Works; and

WHEREAS, Danville Container Services, dba/ Mobile Container Service, 1047 River Ridge Road, Danville, VA. 24541, has provided a quote for service of \$23,173.02, in excess of the pay to play threshold of \$17,500.00; and

WHEREAS, the vendor has completed and submitted a Business Entity Disclosure Certification and a Personal Contribution Disclosure form which certifies that the vendor has not made any reportable contributions to a political or candidate committee in the *Township of Vernon* in the previous one year, and that the contract will prohibit the vendor from making any reportable contributions through the term of the contract, and

WHEREAS, the Chief Financial Officer hereby certifies that funds NOT TO EXCEED \$23,173.02 are available as follows:

NOW, THEREFORE, BE IT RESOLVED, that the Mayor and Council of the Township of Vernon authorizes the Mayor to enter into a contract with Danville Container Services, dba/ Mobile Container Service, 1047 River Ridge Road, Danville, VA. 24541, not to exceed \$23,173.02 for purchase of recycling container repair services; and

BE IT FURTHER RESOLVED, that the Business Disclosure Entity Certification and Personal Contribution Disclosure form, Determination of Value be placed on file with this resolution.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center. .

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

TOWNSHIP OF VERNON

RESOLUTION #25-230

AUTHORIZING CONTRACTS WITH CERTAIN APPROVED STATE CONTRACT VENDORS FIREFIGHTER ONE FOR PURCHASE OF VOLUNTEER FIRE DEPARTMENT TURNOUT GEAR

WHEREAS, as provided for within the New Jersey Local Publics Contract Law (N.J.S.A.40A:11-12 et. Seq.,) the Township of Vernon may by resolution, and without advertising for bids or obtaining quotations, purchase any goods or services under State Contract; and

WHEREAS, the Township has the need on a timely basis to purchase goods and services utilizing State contracts; and

WHEREAS, the Township intends to enter into contract with Firefighter One 34 Wilson Dr. Sparta, NJ 07871, for the procurement of turnout gear at a cost of \$111,384.99 under New Jersey State Contract17-FLEET-00811/ T0790; and

WHEREAS, the Chief Financial Officer certifies funding is available in the amount of \$111,384.99 from:

Line Item:

NOW THEREFORE BE IT RESOLVED, that the Township Council of the Township of Vernon, authorizes the Qualified Purchasing Agent to purchase certain goods and services from Firefighter One, through New Jersey State Contract17-FLEET-00811/ T0790 pursuant to all conditions of the individual State contracts; and

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						



Firefighter One
34 Wilson Drive
Sparta NJ 07871
United States

Quote

#SQ-00301223

9/2/2025

Bill To

Vernon Fire Department
Attn: Accounts Payable
1605 County Road 565
Sussex NJ 07461
United States

Ship To

Vernon Fire Department
Vernon Fire Department
535 county Road 515
Vernon NJ 07472
United States

TOTAL

\$111,384.99

Expires: 10/2/2025

Sales Rep

Reader, Fred

Payment Terms

Net 30

Shipping Method

Contract

Quantity	Item	Comments	Rate	Amount
20	FXRC-VFD07462 FXR Custom Turnout Gear Coat- Vernon Township Fire Spec	FW-136508	\$2,823.70	\$56,474.00
20	FXRP-VFD07462 FXR Custom Turnout Gear Pant-Vernon Township Spec	FW-136508	\$2,096.05	\$41,921.00
13	G2LTBD Dex-Pro Glove - Gauntlet Cuff - Size TBD		\$0.00	\$0.00
20	H41L1NBFH-(OS) L Nomex® Nano Flex - Full Coverage Hood - Large		\$0.00	\$0.00
	17-FLEET-00811-Fire Dex T-0790 (17DPP00100) - Firefighter Protective Clothing and Equipment Award Summary NJ State Contract Master Blanket# 17-FLEET-00811 / Fire Dex Price Lists Dated 2023 / 45% Discount Category 1: Turnout Gear Category 2: Helmets Category 3: Protective Hoods Category 4: Boots Category 5: Gloves			
13	UL6BKR319 Fire Helmet, Structural, Lightweight UST, Black, Fiberglass, NFPA Bourkes, 6" Brass Eagle		\$545.70	\$7,094.10
	17-FLEET-00816-Bullard- Helmets T0790-Category 2 - Helmets Price Line 2 from Bid Solicitation State-Supplied Price Sheet 15%			
13	507502TBDTBD FIRE EAGLE AIR- SIZE TBD		\$453.53	\$5,895.89
	17-FLEET-00809-HAIX Fire Protection Clothing: Turnout Coats, Bunker Pants, Hoods, Gloves, etc. Award Summary NJ State Contract Master Blanket # 17-FLEET-00809 / HAIX North American / 23% Discount / Category 4 - Boots			
1	Contract Contract Free Shipping on Contract items		\$0.00	\$0.00

RETURN POLICY: Special Order or Custom items are not returnable. All Returns are subject to a 20% restocking fee. No returns will be accepted without an RMA # issued by FF1. No Returns will be accepted after 60 days from date of purchase. Returning party responsible for shipping related charges. Returned merchandise must be in NEW and RESALABLE condition for credit to be applied.



Firefighter One
34 Wilson Drive
Sparta NJ 07871
United States

Quote

#SQ-00301223

9/2/2025

Subtotal \$111,384.99

Tax Total (%) \$0.00

Total \$111,384.99

Authorized Signature: _____

Printed Name: _____

Purchase Order #: _____ *Physical P.O. must be received in order to process (if applicable)

RETURN POLICY: Special Order or Custom items are not returnable. All Returns are subject to a 20% restocking fee. No returns will be accepted without an RMA # issued by FF1. No Returns will be accepted after 60 days from date of purchase. Returning party responsible for shipping related charges. Returned merchandise must be in NEW and RESALABLE condition for credit to be applied.

TOWNSHIP OF VERNON

RESOLUTION #25-231

REFUND OVERPAYMENT (Block 387 Lot 5 – Corelogic)

BE IT RESOLVED, by the Council of the Township of Vernon, Vernon, New Jersey, that a warrant be drawn to Corelogic in the amount of \$1642.02 representing refund for overpayment of 3rd qtr. 2024 property taxes for Block 387 Lot 5. Also refund for overpayment of 4th qtr. 2024 in the amount of \$1984.10 for Block 387 Lot 5.

OWNER	BLOCK	LOT	REFUND AMOUNT
Crowe	387	5	\$3626.12
		TOTAL:	\$3626.12

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Submitted by: Lisa A. Kimkowski, CTC

TOWNSHIP OF VERNON

RESOLUTION #25-232

REFUND OVERPAYMENT (Block 387 Lot 5 – Corelogic)

BE IT RESOLVED, by the Council of the Township of Vernon, Vernon, New Jersey, that a warrant be drawn to Corelogic in the amount of \$1832.58 representing refund for overpayment of 2nd qtr. 2025 property taxes for Block 387 Lot 5.

OWNER	BLOCK	LOT	REFUND AMOUNT
Crowe	387	5	\$1832.58
		TOTAL:	\$1832.58

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Submitted by: Lisa A. Kimkowski, CTC

TOWNSHIP OF VERNON

RESOLUTION #25-233

REFUND OVERPAYMENT (Block 9 Lot 5 – Sarvahjetaa LLC)

BE IT RESOLVED, by the Council of the Township of Vernon, Vernon, New Jersey, that a warrant be drawn to Corelogic in the amount of \$2847.11 representing refund for overpayment of 2nd qtr. 2024 property taxes for Block 9 Lot 5.

OWNER	BLOCK	LOT	REFUND AMOUNT
Sarvahjetaa LLC	9	5	\$2847.11
		TOTAL:	\$2847.11

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Submitted by: Lisa A. Kimkowski, CTC

TOWNSHIP OF VERNON

RESOLUTION #25-234

(Block 156 Lot 45)

CANCELLING TAXES FOR TOTAL DISABLED VETERAN

WHEREAS THE DEPARTMENT OF VETERANS AFFAIRS
awarded Phillip Barry 100% permanent and total disabled veteran; and

WHEREAS, as of said date the law exempts said property from taxation.

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Township of Vernon authorizes the Tax Collector to cancel the taxes for 2025 in the amount of \$6,916.32.

BE IT FURTHER RESOLVED, that a certified copy of this Resolution be forwarded to the Tax Collector.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Submitted by: Lisa A. Kimkowski, CTC

TOWNSHIP OF VERNON

RESOLUTION #25-235

(Block 156 Lot 45)

CANCELLING TAXES FOR TOTAL DISABLED VETERAN

WHEREAS THE DEPARTMENT OF VETERANS AFFAIRS
awarded Phillip Barry 100% permanent and total disabled veteran; and

WHEREAS, as of said date the law exempts said property from taxation.

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Township of Vernon authorizes the Tax Collector to cancel the taxes for 2026 in the amount of \$3,458.16.

BE IT FURTHER RESOLVED, that a certified copy of this Resolution be forwarded to the Tax Collector.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Submitted by: Lisa A. Kimkowski, CTC

TOWNSHIP OF VERNON

RESOLUTION #25-236

**REFUND FOR TOTALLY DISABLED VETERAN
(Block 156 Lot 45)**

WHEREAS, THE DEPARTMENT OF VETERANS AFFAIRS awarded Phillip Barry 100% permanent and totally disabled veteran: and,

WHEREAS, the law exempts said property from taxation.

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Township of Vernon hereby authorizes the Tax Collector to refund 2024 property tax in the amount of \$489.88 to Phillip Barry.

FINALLY, BE IT RESOLVED, that a certified copy of this Resolution be forwarded to the Township Tax Collector.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MO-TION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Submitted by: Lisa A. Kimkowski, CTC

TOWNSHIP OF VERNON

RESOLUTION #25-237

**REFUND FOR TOTALLY DISABLED VETERAN
(Block 382 Lot 17)**

WHEREAS, THE DEPARTMENT OF VETERANS AFFAIRS
awarded Tyrus Hicks 100% permanent and totally disabled veteran: and,

WHEREAS, the law exempts said property from taxation.

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Township of
Vernon hereby authorizes the Tax Collector to refund 2024 property tax in the amount of
\$2,544.00 to Tyrus Hicks.

FINALLY, BE IT RESOLVED, that a certified copy of this Resolution be
forwarded to the Township Tax Collector.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township
of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon
Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MO- TION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Submitted by: Lisa A. Kimkowski, CTC

TOWNSHIP OF VERNON

RESOLUTION #25-238

**REFUND FOR TOTALLY DISABLED VETERAN
(Block 382 Lot 17)**

WHEREAS, THE DEPARTMENT OF VETERANS AFFAIRS
awarded Tyrus Hicks 100% permanent and totally disabled veteran: and,

WHEREAS, the law exempts said property from taxation.

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Township of
Vernon hereby authorizes the Tax Collector to refund 2025 property tax in the amount of
\$5,717.89 to Tyrus Hicks.

FINALLY, BE IT RESOLVED, that a certified copy of this Resolution be
forwarded to the Township Tax Collector.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township
of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon
Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MO- TION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Submitted by: Lisa A. Kimkowski, CTC

TOWNSHIP OF VERNON

RESOLUTION #25-239

**(Block 382 Lot 17)
CANCELLING TAXES FOR TOTAL DISABLED VETERAN**

WHEREAS THE DEPARTMENT OF VETERANS AFFAIRS
awarded Tyrus Hicks 100% permanent and total disabled veteran; and

WHEREAS, as of said date the law exempts said property from taxation.

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Township of Vernon authorizes the Tax Collector to cancel the taxes for 2025 in the amount of \$5,717.89.

BE IT FURTHER RESOLVED, that a certified copy of this Resolution be forwarded to the Tax Collector.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Submitted by: Lisa A. Kimkowski, CTC

TOWNSHIP OF VERNON

RESOLUTION #25-240

(Block 382 Lot 17)

CANCELLING TAXES FOR TOTAL DISABLED VETERAN

WHEREAS THE DEPARTMENT OF VETERANS AFFAIRS
awarded Tyrus Hicks 100% permanent and total disabled veteran; and

WHEREAS, as of said date the law exempts said property from taxation.

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Township of Vernon authorizes the Tax Collector to cancel the taxes for 2026 in the amount of \$3,859.16.

BE IT FURTHER RESOLVED, that a certified copy of this Resolution be forwarded to the Tax Collector.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Submitted by: Lisa A. Kimkowski, CTC

TOWNSHIP OF VERNON

RESOLUTION #25-241

**REFUND FOR TOTALLY DISABLED VETERAN
(Block 418 Lot 8) - Redacted**

WHEREAS, THE DEPARTMENT OF VETERANS AFFAIRS
awarded Block 418 Lot 8 100% permanent and totally disabled veteran: and,

WHEREAS, the law exempts said property from taxation.

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Township of
Vernon hereby authorizes the Tax Collector to refund 2025 property tax in the amount of
\$2,285.18 to Choice Title.

FINALLY, BE IT RESOLVED, that a certified copy of this Resolution be
forwarded to the Township Tax Collector.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township
of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon
Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MO- TION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Submitted by: Lisa A. Kimkowski, CTC

TOWNSHIP OF VERNON

RESOLUTION #25-242

**REFUND FOR TOTALLY DISABLED VETERAN
(Block 418 Lot 8) - Redacted**

WHEREAS, THE DEPARTMENT OF VETERANS AFFAIRS
awarded Block 418 Lot 8 100% permanent and totally disabled veteran: and,

WHEREAS, the law exempts said property from taxation.

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Township of Vernon hereby authorizes the Tax Collector to refund 2025 property tax in the amount of \$2,285.18 to Block 418 Lot 8.

FINALLY, BE IT RESOLVED, that a certified copy of this Resolution be forwarded to the Township Tax Collector.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MO- TION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Submitted by: Lisa A. Kimkowski, CTC

TOWNSHIP OF VERNON

RESOLUTION #25-243

**(Block 418 Lot 8) Redacted
CANCELLING TAXES FOR TOTAL DISABLED VETERAN**

WHEREAS THE DEPARTMENT OF VETERANS AFFAIRS
awarded Block 418 Lot 8 100% permanent and total disabled veteran; and

WHEREAS, as of said date the law exempts said property from taxation.

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Township of
Vernon authorizes the Tax Collector to cancel the taxes for 2025 in the amount of
\$2,390.04.

BE IT FURTHER RESOLVED, that a certified copy of this Resolution be
forwarded to the Tax Collector.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township
of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon
Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Submitted by: Lisa A. Kimkowski, CTC

TOWNSHIP OF VERNON

RESOLUTION #25-244

**(Block 418 Lot 8) - Redacted
CANCELLING TAXES FOR TOTAL DISABLED VETERAN**

WHEREAS THE DEPARTMENT OF VETERANS AFFAIRS
awarded Block 418 Lot 8 100% permanent and total disabled veteran; and

WHEREAS, as of said date the law exempts said property from taxation.

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Township of
Vernon authorizes the Tax Collector to cancel the taxes for 2026 in the amount of
\$4,239.76.

BE IT FURTHER RESOLVED, that a certified copy of this Resolution be
forwarded to the Tax Collector.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township
of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon
Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Submitted by: Lisa A. Kimkowski, CTC

TOWNSHIP OF VERNON

RESOLUTION #25-245

**REFUND FOR TOTALLY DISABLED VETERAN
(Block 560 Lot 4) - Redacted**

WHEREAS, THE DEPARTMENT OF VETERANS AFFAIRS
awarded Block 560 Lot 4 100% permanent and totally disabled veteran: and,

WHEREAS, the law exempts said property from taxation.

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Township of Vernon hereby authorizes the Tax Collector to refund 2025 property tax in the amount of \$3,815.60 to Block 560 Lot 4.

FINALLY, BE IT RESOLVED, that a certified copy of this Resolution be forwarded to the Township Tax Collector.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MO-TION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Submitted by: Lisa A. Kimkowski, CTC

TOWNSHIP OF VERNON

RESOLUTION #25-246

**(Block 560 Lot 4) - Redacted
CANCELLING TAXES FOR TOTAL DISABLED VETERAN**

WHEREAS THE DEPARTMENT OF VETERANS AFFAIRS
awarded Block 560 Lot 4 100% permanent and total disabled veteran; and

WHEREAS, as of said date the law exempts said property from taxation.

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Township of
Vernon authorizes the Tax Collector to cancel the taxes for 2025 in the amount of
\$2,016.34.

BE IT FURTHER RESOLVED, that a certified copy of this Resolution be
forwarded to the Tax Collector.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township
of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon
Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Submitted by: Lisa A. Kimkowski, CTC

TOWNSHIP OF VERNON

RESOLUTION #25-247

**(Block 560 Lot 4) - Redacted
CANCELLING TAXES FOR TOTAL DISABLED VETERAN**

WHEREAS THE DEPARTMENT OF VETERANS AFFAIRS
awarded Block 560 Lot 4 100% permanent and total disabled veteran; and

WHEREAS, as of said date the law exempts said property from taxation.

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Township of
Vernon authorizes the Tax Collector to cancel the taxes for 2026 in the amount of
\$3,863.39.

BE IT FURTHER RESOLVED, that a certified copy of this Resolution be
forwarded to the Tax Collector.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township
of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon
Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Submitted by: Lisa A. Kimkowski, CTC

TOWNSHIP OF VERNON

RESOLUTION #25-248

**REFUND FOR TOTALLY DISABLED VETERAN
(Block 581 Lot 32)**

WHEREAS, THE DEPARTMENT OF VETERANS AFFAIRS
awarded James Fedorko 100% permanent and totally disabled veteran: and,

WHEREAS, the law exempts said property from taxation.

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Township of
Vernon hereby authorizes the Tax Collector to refund 2025 property tax in the amount of
\$3,680.52 to James Fedorko.

FINALLY, BE IT RESOLVED, that a certified copy of this Resolution be
forwarded to the Township Tax Collector.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township
of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon
Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MO- TION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Submitted by: Lisa A. Kimkowski, CTC

TOWNSHIP OF VERNON

RESOLUTION #25-249

(Block 581 Lot 32)

CANCELLING TAXES FOR TOTAL DISABLED VETERAN

WHEREAS THE DEPARTMENT OF VETERANS AFFAIRS
awarded James Fedorko 100% permanent and total disabled veteran; and

WHEREAS, as of said date the law exempts said property from taxation.

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Township of Vernon authorizes the Tax Collector to cancel the taxes for 2025 in the amount of \$3,929.92.

BE IT FURTHER RESOLVED, that a certified copy of this Resolution be forwarded to the Tax Collector.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Submitted by: Lisa A. Kimkowski, CTC

TOWNSHIP OF VERNON

RESOLUTION #25-250

**(Block 581 Lot 32)
CANCELLING TAXES FOR TOTAL DISABLED VETERAN**

WHEREAS THE DEPARTMENT OF VETERANS AFFAIRS
awarded James Fedorko 100% permanent and total disabled veteran; and

WHEREAS, as of said date the law exempts said property from taxation.

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Township of Vernon authorizes the Tax Collector to cancel the taxes for 2026 in the amount of \$3,805.22.

BE IT FURTHER RESOLVED, that a certified copy of this Resolution be forwarded to the Tax Collector.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Submitted by: Lisa A. Kimkowski, CTC

TOWNSHIP OF VERNON

RESOLUTION #25-251

**REFUND FOR TOTALLY DISABLED VETERAN
(Block 581 Lot 32)**

WHEREAS, THE DEPARTMENT OF VETERANS AFFAIRS
awarded James Fedorko 100% permanent and totally disabled veteran: and,

WHEREAS, the law exempts said property from taxation.

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Township of
Vernon hereby authorizes the Tax Collector to refund 2024 property tax in the amount of
\$1,728.94 to James Fedorko.

FINALLY, BE IT RESOLVED, that a certified copy of this Resolution be
forwarded to the Township Tax Collector.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township
of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon
Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MO- TION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Submitted by: Lisa A. Kimkowski, CTC

TOWNSHIP OF VERNON

RESOLUTION #25-252

**REFUND FOR TOTALLY DISABLED VETERAN
(Block 610 Lot 5)**

WHEREAS, THE DEPARTMENT OF VETERANS AFFAIRS
awarded Fred Amerspek 100% permanent and totally disabled veteran: and,

WHEREAS, the law exempts said property from taxation.

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Township of
Vernon hereby authorizes the Tax Collector to refund 2025 property tax in the amount of
\$5,860.93 to Fred Amerspek.

FINALLY, BE IT RESOLVED, that a certified copy of this Resolution be
forwarded to the Township Tax Collector.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township
of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon
Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MO- TION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Submitted by: Lisa A. Kimkowski, CTC

TOWNSHIP OF VERNON

RESOLUTION #25-253

(Block 610 Lot 5)

CANCELLING TAXES FOR TOTAL DISABLED VETERAN

WHEREAS THE DEPARTMENT OF VETERANS AFFAIRS
awarded Fred Amerspek 100% permanent and total disabled veteran; and

WHEREAS, as of said date the law exempts said property from taxation.

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Township of Vernon authorizes the Tax Collector to cancel the taxes for 2025 in the amount of \$2,506.21.

BE IT FURTHER RESOLVED, that a certified copy of this Resolution be forwarded to the Tax Collector.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Submitted by: Lisa A. Kimkowski, CTC

TOWNSHIP OF VERNON

RESOLUTION #25-254

(Block 610 Lot 5)

CANCELLING TAXES FOR TOTAL DISABLED VETERAN

WHEREAS THE DEPARTMENT OF VETERANS AFFAIRS
awarded Fred Amerspek 100% permanent and total disabled veteran; and

WHEREAS, as of said date the law exempts said property from taxation.

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Township of
Vernon authorizes the Tax Collector to cancel the taxes for 2026 in the amount of
\$4,680.62.

BE IT FURTHER RESOLVED, that a certified copy of this Resolution be
forwarded to the Tax Collector.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township
of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon
Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Submitted by: Lisa A. Kimkowski, CTC

TOWNSHIP OF VERNON

RESOLUTION #25-255

RESOLUTION AUTHORIZING LEASING OF CERTAIN VEHICLES FOR THE FIRE DEPARTMENT THROUGH SOURCEWELL NATIONAL COOPERATIVE #060618-EFM THROUGH ENTERPRISE FLEET MANAGEMENT SERVICES INC. (Quote No. 9272442)

BE IT RESOLVED, by the Council of the Township of Vernon, Sussex County, State of New Jersey as follows:

WHEREAS, the governing body of Vernon Township approved in Resolution 19-164 authorizing leasing of certain vehicles through Sourcewell National Cooperative #060618-EFM through Enterprise Fleet Management Services, Inc., and this is an extension of that resolution; and

WHEREAS, in accordance with the requirements of the Local Public Contract Law P.L. 2011, C.139 (the "Law" or "Chapter 139" and N.J.S.A.52:34-6.2 the regulations promulgated there under in Local Finance Notice LFN 2012-10, the following purchase without competitive bids from vendor with a National Cooperative Contract is hereby approved for municipalities, and;

WHEREAS, the Township of Vernon has the need to procure certain vehicles through lease program for Township services in accord with the Local Publics Contract Law N.J.S.A. 40A:11-1 et. Seq., and;

WHEREAS, the Township of Vernon has previously acted in accord with New Jersey public procurement statutes and regulations as promulgated by formally joining a recognized and compliant national cooperative, being the Sourcewell National Cooperative, and;

WHEREAS, the regulations as set forth within Local Finance Notice LFN 2012-10 have been fully complied with, and;

WHEREAS, the equipment and corresponding Sourcewell National Cooperative contract is #060618-EFM for Enterprise Fleet Management Services Inc.; and

WHEREAS, the cost savings determination as required under LFN 2012-10 is the cost of contract as there is currently no cooperative lease program in effect under the New Jersey Division of Purchase and Property; and

WHEREAS, the quoted cost under the Sourcewell National contract is \$61,665.60 (Quote No. 9272442); and

WHEREAS, that the governing body of Vernon Township pursuant to NJAC 5:30-5.5(b) (the certification of available funds), states that the Chief Finance Officer shall either certify the full maximum amount against the budget at the time the contract is awarded, or no contract amount shall be chargeable or certified until such time as the goods or services are ordered or otherwise called for prior to placing the order, and a certification of availability of funds is made by the Chief Finance Officer; and

NOW THEREFORE BE IT RESOLVED THAT, the Business Administrator is hereby directed to effectuate the contract with Enterprise Fleet Management Services Inc. under Sourcewell contract #060618-EFM in accord with the provisions of the tenets as established within 40A:11-1 et. Seq.,

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						



Prepared For: Township Of Vernon Haw, Jason				Date 08/29/2025 AE/AM MKC/SSI
Unit #				
Year	2026	Make	Ford	Model F-250
Series	XL 4x4 SD Crew Cab 8 ft. box 176 in. WB SRW			
Vehicle Order Type	Ordered	Term	60	State NJ Customer# 591495
\$ 50,950.00	Capitalized Price of Vehicle ¹			
\$ 0.00	*	Sales Tax <u>0.0000%</u> State <u>NJ</u>		
\$ 159.00	*	Initial License Fee		
\$ 0.00	Registration Fee			
\$ 950.00	Other: (See Page 2)			
\$ 0.00	Capitalized Price Reduction			
\$ 0.00	Gain Applied From Prior Unit			
\$ 0.00	*	Security Deposit		
\$ 0.00	Taxes			
\$ 51,900.00	Total Capitalized Amount (Delivered Price)			
\$ 804.45	Depreciation Reserve @ <u>1.5500%</u>			
\$ 223.31	Monthly Lease Charge (Based on Interest Rate - Subject to a Floor) ²			
\$ 1,027.76	Total Monthly Rental Excluding Additional Services			
Additional Fleet Management				
Master Policy Enrollment Fees				
\$ 0.00	Commercial Automobile Liability Enrollment			
	Liability Limit <u>\$0.00</u>			
\$ 0.00	Physical Damage Management			
\$ 0.00	Full Maintenance Program ³ Contract Miles <u>0</u>			
	Incl: # Brake Sets (1 set = 1 Axle) <u>0</u>			
\$ 0.00	Additional Services SubTotal			
\$ 0.00	Tax	<u>0.0000%</u>	State <u>NJ</u>	
\$ 1,027.76	Total Monthly Rental Including Additional Services			
\$ 3,633.00	Reduced Book Value at <u>60</u> Months			
\$ 400.00	Service Charge Due at Lease Termination			

All language and acknowledgments contained in the signed quote apply to all vehicles that are ordered under this signed quote.

Order Information

Driver Name Fire Department
Exterior Color Vermillion Red
Interior Color Medium Dark Slate w/HD Vinyl 40/20/40 Split B
Lic. Plate Type Unknown
GVWR 0

Comp/Coll Deductible 0 / 0
OverMileage Charge \$ 0.00 Per Mile
Tires 0
Loaner Vehicle Not Included

Quote based on estimated annual mileage of 20,000
(Current market and vehicle conditions may also affect value of vehicle)
(Quote is Subject to Customer's Credit Approval)

Notes

Enterprise FM Trust will be the owner of the vehicle covered by this Quote. Enterprise FM Trust (not Enterprise Fleet Management) will be the Lessor of such vehicle under the Master Open - End (Equity) Lease Agreement and shall have all rights and obligations of the Lessor under the Master Open - End (Equity) Lease Agreement with respect to such vehicle. Lessee must maintain insurance coverage on the vehicle as set forth in Section 11 of the Master Open-End (Equity) Lease Agreement until the vehicle is sold.

ALL TAX AND LICENSE FEES TO BE BILLED TO LESSEE AS THEY OCCUR.

Lessee hereby authorizes this vehicle order, and agrees to lease the vehicle on the terms set forth herein and in the Master Equity Lease Agreement. In the event Lessee fails or refuses to accept delivery of the ordered vehicle, Lessee agrees that Lessor shall have the right to collect damages, including, but not limited to, a \$500 disposal fee, interest incurred, and loss of value.

LESSEE Township Of Vernon

BY

TITLE

DATE

* INDICATES ITEMS TO BE BILLED ON DELIVERY.

¹ Capitalized price of vehicle may be adjusted to reflect final manufacturer's invoice, plus a pre delivery interest charge. Lessee hereby assigns to Lessor any manufacturer rebates and/or manufacturer incentives intended for the Lessee, which rebates and/or incentives have been used by Lessor to reduce the capitalized price of the vehicle.

² Monthly lease charge will be adjusted to reflect the interest rate on the delivery date (subject to a floor).

³ The inclusion herein of references to maintenance fees/services are solely for the administrative convenience of Lessee. Notwithstanding the inclusion of such references in this [Invoice/Schedule/Quote], all such maintenance services are to be performed by Enterprise Fleet Management, Inc., and all such maintenance fees are payable by Lessee solely for the account of Enterprise Fleet Management, Inc., pursuant to that certain separate [Maintenance Agreement] entered into by and between Lessee and Enterprise Fleet Management, Inc.; provided that such maintenance fees are being billed by Enterprise FM Trust, and are payable at the direction of Enterprise FM Trust, solely as an authorized agent for collection on behalf of Enterprise Fleet Management, Inc.

**Aftermarket Equipment Total**

Description	(B)illed or (C)apped	Price
Fire Truck - Fire Department Upfit	B	\$ 16,943.87
Total Aftermarket Equipment Billed		\$ 16,943.87
Total Aftermarket Equipment Capitalized		\$ 0.00
Aftermarket Equipment Total		\$ 0.00

Other Totals

Description	(B)illed or (C)apped	Price
Initial Administration Fee	B	\$ 60.00
Est Transport all movement	C	\$ 750.00
Courtesy Delivery Fee	C	\$ 200.00
Total Other Charges Billed		\$ 60.00
Total Other Charges Capitalized		\$ 950.00
Other Charges Total		\$ 1,010.00

VEHICLE INFORMATION:

2026 Ford F-250 XL 4x4 SD Crew Cab 8 ft. box 176 in. WB SRW - US
Series ID: W2B

Pricing Summary:

	INVOICE	MSRP
Base Vehicle	\$50,255	\$52,900.00
Total Options	\$600.00	\$660.00
Destination Charge	\$2,195.00	\$2,195.00
Total Price	\$53,050.00	\$55,755.00

SELECTED COLOR:

Exterior: E4-Vermillion Red
Interior: AS-Medium Dark Slate w/HD Vinyl 40/20/40 Split Bench Seat

SELECTED OPTIONS:

CODE	DESCRIPTION	INVOICE	MSRP
176WB	176" Wheelbase	STD	STD
425	50-State Emissions System	STD	STD
44F	Transmission: TorqShift-G 10-Speed Automatic	Included	Included
600A	Order Code 600A	NC	NC
64A	Wheels: 17" Argent Painted Steel	Included	Included
99A	Engine: 6.8L 2V DEVCT NA PFI V8 Gas	Included	Included
A	HD Vinyl 40/20/40 Split Bench Seat	Included	Included
AS_03	Medium Dark Slate w/HD Vinyl 40/20/40 Split Bench Seat	NC	NC
E4_02	Vermillion Red	\$600.00	\$660.00
FCP1	Ford Connectivity Package (1-Year Included)	Included	Included
PAINT	Monotone Paint Application	STD	STD
STDGV	GVWR: 10,000 Lb Payload Package	Included	Included
STDRD	Radio: AM/FM Stereo w/MP3 Player	Included	Included
SYNC4	SYNC 4	Included	Included
TD8	Tires: LT245/75Rx17E BSW A/S	Included	Included
WARANT	Fleet Customer Powertrain Limited Warranty	NC	NC
X37	3.73 Axle Ratio	Included	Included

CONFIGURED FEATURES:

Body Exterior Features:

Number Of Doors: 4
Rear Cargo Door Type: tailgate
Driver And Passenger Mirror: power remote heated manual folding side-view door mirrors with turn signal indicator
Convex Driver Mirror: convex driver and passenger mirror
Mirror Type: manual extendable trailer mirrors
Door Handles: black
Front And Rear Bumpers: black front and rear bumpers with black rub strip
Rear Step Bumper: rear step bumper
Front Tow Hooks: 2 front tow hooks
Box Style: regular
Body Material: aluminum body material
: class V trailering with harness, hitch
Grille: black grille

Convenience Features:

Air Conditioning: manual air conditioning
Air Filter: air filter
Cruise Control: cruise control with steering wheel controls
Power Windows: power windows with driver and passenger 1-touch down
Remote Keyless Entry: yes remote keyless entry
Illuminated Entry: illuminated entry
Integrated Key Remote: integrated key/remote
Auto Locking: auto-locking doors
Steering Wheel: steering wheel with manual tilting, manual telescoping
Day-Night Rearview Mirror: day-night rearview mirror
Emergency SOS: SYNC 4 911 Assist emergency communication system
Front Cupholder: front and rear cupholders
Overhead Console: full overhead console with storage
Glove Box: illuminated locking glove box
Dashboard Storage: dashboard storage
IP Storage: covered bin instrument-panel storage
Retained Accessory Power: retained accessory power
Power Accessory Outlet: 2 12V DC power outlets

Entertainment Features:

radio: AM/FM stereo with seek-scan
Voice Activated Radio: voice activated radio
Speed Sensitive Volume: speed-sensitive volume
Steering Wheel Radio Controls: steering-wheel mounted audio controls
Speakers: 6 speakers
Internet Access: FordPass Connect 5G internet access
1st Row LCD: 2 1st row LCD monitor
Wireless Connectivity: wireless phone connectivity
Antenna: fixed antenna

Lighting, Visibility and Instrumentation Features:

Headlamp Type: delay-off reflector halogen headlamps
Cab Clearance Lights: cargo bed light
Front Wipers: variable intermittent wipers
Tinted Windows: light-tinted windows
Dome Light: dome light with fade
Front Reading Lights: front and rear reading lights
Variable IP Lighting: variable instrument panel lighting
Display Type: digital/analog appearance
Tachometer: tachometer
Compass: compass
Exterior Temp: outside-temperature display
Low Tire Pressure Warning: tire specific low-tire-pressure warning

Trip Computer: trip computer
Trip Odometer: trip odometer
Oil Pressure Gauge: oil pressure gauge
Water Temp Gauge: water temp. gauge
Transmission Oil Temp Gauge: transmission oil temp. gauge
Engine Hour Meter: engine hour meter
Clock: digital clock
Systems Monitor: driver information centre
Rear Vision Camera: rear vision camera
Oil Pressure Warning: oil-pressure warning
Water Temp Warning: water-temp. warning
Battery Warning: battery warning
Lights On Warning: lights-on warning
Key in Ignition Warning: key-in-ignition warning
Low Fuel Warning: low-fuel warning
Door Ajar Warning: door-ajar warning
Brake Fluid Warning: brake-fluid warning

Safety And Security:

ABS four-wheel ABS brakes
Number of ABS Channels: 4 ABS channels
Brake Assistance: brake assist
Brake Type: four-wheel disc brakes
Vented Disc Brakes: front and rear ventilated disc brakes
Daytime Running Lights: daytime running lights
Spare Tire Type: full-size spare tire
Spare Tire Mount: underbody mounted spare tire w/crankdown
Driver Front Impact Airbag: driver and passenger front-impact airbags
Driver Side Airbag: seat-mounted driver and passenger side-impact airbags
Overhead Airbag: Safety Canopy System curtain 1st and 2nd row overhead airbag
Height Adjustable Seatbelts: height adjustable front seatbelts
3Point Rear Centre Seatbelt: 3 point rear centre seatbelt
Side Impact Bars: side-impact bars
Perimeter Under Vehicle Lights: remote activated perimeter/approach lights
Tailgate/Rear Door Lock Type: tailgate/rear door lock included with power door locks
Rear Child Safety Locks: rear child safety locks
Ignition Disable: SecuriLock immobilizer
Security System: security system Ford Security Package (1-year included with activation)
Panic Alarm: panic alarm
Electronic Stability: AdvanceTrac w/Roll Stability Control electronic stability stability control with anti-rollover
Traction Control: ABS and driveline traction control
Front and Rear Headrests: manual adjustable front head restraints
Rear Headrest Control: 3 rear head restraints

Seats And Trim:

Seating Capacity max. seating capacity of 6
Front Bucket Seats: front split-bench 40-20-40 seats
Number of Driver Seat Adjustments: 4-way driver and passenger seat adjustments
Reclining Driver Seat: manual reclining driver and passenger seats
Driver Lumbar: manual driver and passenger lumbar support
Driver Fore/Aft: manual driver and passenger fore/aft adjustment
Front Centre Armrest Storage: front centre armrest with storage
Rear Seat Type: rear 60-40 split-bench seat
Rear Folding Position: rear seat fold-up cushion
Leather Upholstery: vinyl front and rear seat upholstery
Headliner Material: full cloth headliner
Floor Covering: full vinyl/rubber floor covering
Shift Knob Trim: urethane shift knob
Interior Accents: chrome interior accents

Standard Engine:

Engine 405-hp, 6.8-liter V-8 (regular gas)

Standard Transmission:

Transmission 10-speed automatic w/ OD and PowerShift automatic

TOWNSHIP OF VERNON

RESOLUTION #25-256

RESOLUTION AUTHORIZING LEASING OF CERTAIN VEHICLES FOR THE FIRE DEPARTMENT THROUGH SOURCEWELL NATIONAL COOPERATIVE #060618-EFM THROUGH ENTERPRISE FLEET MANAGEMENT SERVICES INC. (Quote No. 9272437, 9272438, 9272439 and 9272440)

BE IT RESOLVED, by the Council of the Township of Vernon, Sussex County, State of New Jersey as follows:

WHEREAS, the governing body of Vernon Township approved in Resolution 19-164 authorizing leasing of certain vehicles through Sourcewell National Cooperative #060618-EFM through Enterprise Fleet Management Services, Inc., and this is an extension of that resolution; and

WHEREAS, in accordance with the requirements of the Local Public Contract Law P.L. 2011, C.139 (the "Law" or "Chapter 139" and N.J.S.A.52:34-6.2 the regulations promulgated there under in Local Finance Notice LFN 2012-10, the following purchase without competitive bids from vendor with a National Cooperative Contract is hereby approved for municipalities, and;

WHEREAS, the Township of Vernon has the need to procure certain vehicles through lease program for Township services in accord with the Local Publics Contract Law N.J.S.A. 40A:11-1 et. Seq., and;

WHEREAS, the Township of Vernon has previously acted in accord with New Jersey public procurement statutes and regulations as promulgated by formally joining a recognized and compliant national cooperative, being the Sourcewell National Cooperative, and;

WHEREAS, the regulations as set forth within Local Finance Notice LFN 2012-10 have been fully complied with, and;

WHEREAS, the equipment and corresponding Sourcewell National Cooperative contract is #060618-EFM for Enterprise Fleet Management Services Inc.; and

WHEREAS, the cost savings determination as required under LFN 2012-10 is the cost of contract as there is currently no cooperative lease program in effect under the New Jersey Division of Purchase and Property; and

WHEREAS, the quoted cost under the Sourcewell National contract is \$225,036.00 (Quote No. 9272437, 9272438, 9272439, and 9272440); and

WHEREAS, that the governing body of Vernon Township pursuant to NJAC 5:30-5.5(b) (the certification of available funds), states that the Chief Finance Officer shall either certify the full maximum amount against the budget at the time the contract is awarded, or no contract amount shall be chargeable or certified until such time as the goods or services are ordered or otherwise called for prior to placing the order, and a certification of availability of funds is made by the Chief Finance Officer; and

NOW THEREFORE BE IT RESOLVED THAT, the Business Administrator is hereby directed to effectuate the contract with Enterprise Fleet Management Services Inc. under Sourcewell contract #060618-EFM in accord with the provisions of the tenets as established within 40A:11-1 et. Seq.,

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their regular meeting held on September 8, 2025 at 7:00 pm in the Vernon Municipal Center.

Marcy Gianattasio, RMC, CMR
Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

Prepared For: Township Of Vernon
Haw, Jason

Date 08/29/2025
AE/AM MKC/SSI

Unit #

Year 2026 **Make** Ford **Model** Police Interceptor Utility

Series Base All-Wheel Drive

Vehicle Order Type Ordered **Term** 60 **State** NJ **Customer#** 591495

\$ 46,289.00	Capitalized Price of Vehicle ¹
\$ 0.00 *	Sales Tax <u>0.0000%</u> State <u>NJ</u>
\$ 159.00 *	Initial License Fee
\$ 0.00	Registration Fee
\$ 1,050.00	Other: (See Page 2)
\$ 0.00	Capitalized Price Reduction
\$ 0.00	Gain Applied From Prior Unit
\$ 0.00 *	Security Deposit
\$ 0.00	Taxes

All language and acknowledgments contained in the signed quote apply to all vehicles that are ordered under this signed quote.

Order Information

Driver Name	Fire Department
Exterior Color	Vermillion Red
Interior Color	Charcoal Black w/Unique HD Cloth Front Bucket
Lic. Plate Type	Unknown
GVWR	0

\$ 47,339.00	Total Capitalized Amount (Delivered Price)
\$ 733.75	Depreciation Reserve @ <u>1.5500%</u>
\$ 203.90	Monthly Lease Charge (Based on Interest Rate - Subject to a Floor) ²
\$ 937.65	Total Monthly Rental Excluding Additional Services

Additional Fleet Management

Master Policy Enrollment Fees

\$ 0.00	Commercial Automobile Liability Enrollment
	Liability Limit <u>\$0.00</u>

\$ 0.00	Physical Damage Management
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Comp/Coll Deductible 0 / 0

\$ 0.00	Full Maintenance Program ³ Contract Miles <u>0</u>
	Incl: # Brake Sets (1 set = 1 Axle) <u>0</u>

OverMileage Charge \$ 0.00 Per Mile

Tires 0

Loaner Vehicle Not Included

\$ 0.00	Additional Services SubTotal
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\$ 0.00	Tax <u>0.0000%</u> State <u>NJ</u>
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\$ 937.65	Total Monthly Rental Including Additional Services
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\$ 3,314.00	Reduced Book Value at <u>60</u> Months
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\$ 400.00	Service Charge Due at Lease Termination
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Quote based on estimated annual mileage of 20,000

(Current market and vehicle conditions may also affect value of vehicle)

(Quote is Subject to Customer's Credit Approval)

Notes

Enterprise FM Trust will be the owner of the vehicle covered by this Quote. Enterprise FM Trust (not Enterprise Fleet Management) will be the Lessor of such vehicle under the Master Open - End (Equity) Lease Agreement and shall have all rights and obligations of the Lessor under the Master Open - End (Equity) Lease Agreement with respect to such vehicle. Lessee must maintain insurance coverage on the vehicle as set forth in Section 11 of the Master Open-End (Equity) Lease Agreement until the vehicle is sold.

ALL TAX AND LICENSE FEES TO BE BILLED TO LESSEE AS THEY OCCUR.

Lessee hereby authorizes this vehicle order, and agrees to lease the vehicle on the terms set forth herein and in the Master Equity Lease Agreement. In the event Lessee fails or refuses to accept delivery of the ordered vehicle, Lessee agrees that Lessor shall have the right to collect damages, including, but not limited to, a \$500 disposal fee, interest incurred, and loss of value.

LESSEE Township Of Vernon

BY

TITLE

DATE

* INDICATES ITEMS TO BE BILLED ON DELIVERY.

¹ Capitalized price of vehicle may be adjusted to reflect final manufacturer's invoice, plus a pre delivery interest charge. Lessee hereby assigns to Lessor any manufacturer rebates and/or manufacturer incentives intended for the Lessee, which rebates and/or incentives have been used by Lessor to reduce the capitalized price of the vehicle.

² Monthly lease charge will be adjusted to reflect the interest rate on the delivery date (subject to a floor).

³ The inclusion herein of references to maintenance fees/services are solely for the administrative convenience of Lessee. Notwithstanding the inclusion of such references in this [Invoice/Schedule/Quote], all such maintenance services are to be performed by Enterprise Fleet Management, Inc., and all such maintenance fees are payable by Lessee solely for the account of Enterprise Fleet Management, Inc., pursuant to that certain separate [Maintenance Agreement] entered into by and between Lessee and Enterprise Fleet Management, Inc.; provided that such maintenance fees are being billed by Enterprise FM Trust, and are payable at the direction of Enterprise FM Trust, solely as an authorized agent for collection on behalf of Enterprise Fleet Management, Inc.



Other Totals

Description	(B)illed or (C)apped	Price
Initial Administration Fee	B	\$ 60.00
Est Transport all movement	C	\$ 750.00
Courtesy Delivery Fee	C	\$ 300.00
Total Other Charges Billed		\$ 60.00
Total Other Charges Capitalized		\$ 1,050.00
Other Charges Total		\$ 1,110.00

VEHICLE INFORMATION:

2026 Ford Police Interceptor Utility Base All-Wheel Drive - US
Series ID: K8A

Pricing Summary:

	INVOICE	MSRP
Base Vehicle	\$47,094	\$48,550.00
Total Options	\$0.00	\$0.00
Destination Charge	\$1,695.00	\$1,695.00
Total Price	\$48,789.00	\$50,245.00

SELECTED COLOR:

Exterior:

E4-Vermillion Red

Interior:

9W-Charcoal Black w/Unique HD Cloth Front Bucket Seats w/Vinyl Rear

SELECTED OPTIONS:

CODE	DESCRIPTION	INVOICE	MSRP
119WB	119" Wheelbase	STD	STD
9	Unique HD Cloth Front Bucket Seats w/Vinyl Rear	Included	Included
153	Front License Plate Bracket	NC	NC
425	50-State Emissions System	STD	STD
44U	Transmission: 10-Speed Automatic (44U)	NC	NC
500A	Order Code 500A	NC	NC
99B	Engine: 3.3L V6 Direct-Injection	NC	NC
9W_01	Charcoal Black w/Unique HD Cloth Front Bucket Seats w/Vinyl Rear	NC	NC
E4_01	Vermillion Red	NC	NC
PAINT	Monotone Paint Application	STD	STD
STDAX	3.73 Axle Ratio	Included	Included
STDRD	Radio: AM/FM/MP3 Capable	Included	Included
STDTR	Tires: 255/60R18 as BSW	Included	Included
STDWL	Wheels: 18" X 8" 5-Spoke Painted Black Steel	Included	Included
SYNC	SYNC Phoenix Communication & Entertainment System	Included	Included

CONFIGURED FEATURES:

Body Exterior Features:

Number Of Doors: 4
Rear Cargo Door Type: liftgate
Driver And Passenger Mirror: power remote manual folding side-view door mirrors
Convex Driver Mirror: convex driver and passenger mirror
Spoiler: rear lip spoiler
Door Handles: black
Front And Rear Bumpers: body-coloured front and rear bumpers with black rub strip
Front Tow Hooks: 1 front tow hooks
Front License Plate Bracket: front license plate bracket
Body Material: galvanized steel/aluminum body material
: class III trailering with harness, hitch
Body Side Cladding: body-coloured bodyside cladding
Grille: black grille

Convenience Features:

Air Conditioning: automatic dual-zone front air conditioning
Air Filter: air filter
Rear Air Conditioning: rear air conditioning
Cruise Control: cruise control with steering wheel controls
Trunk/Hatch/Door Remote Release: power cargo access remote release
Power Windows: power windows with driver and passenger 1-touch down
1/4 Vent Rear Windows: power rearmost windows
Remote Keyless Entry: yes remote keyless entry
Steering Wheel: steering wheel with manual tilting, manual telescoping
Day-Night Rearview Mirror: day-night rearview mirror
Driver and Passenger Vanity Mirror: driver and passenger-side visor mirrors
Emergency SOS: emergency communication system
Overhead Console: mini overhead console with storage
Glove Box: locking glove box
Driver Door Bin: driver and passenger door bins
Dashboard Storage: dashboard storage
Driver Footrest: driver's footrest
Retained Accessory Power: retained accessory power
Power Accessory Outlet: 2 12V DC power outlets

Entertainment Features:

radio: AM/FM stereo with seek-scan
Voice Activated Radio: voice activated radio
Speed Sensitive Volume: speed-sensitive volume
Steering Wheel Radio Controls: steering-wheel mounted audio controls
Speakers: 4 speakers
Internet Access: Fleet Telematics Modem internet access
1st Row LCD: 1 1st row LCD monitor
Wireless Connectivity: wireless phone connectivity
Antenna: integrated roof antenna

Lighting, Visibility and Instrumentation Features:

Headlamp Type: projector beam LED low/high beam headlamps
Front Wipers: variable intermittent speed-sensitive wipers wipers
Rear Window wiper: rear window wiper with heating wiper park
Rear Window Defroster: rear window defroster
Tinted Windows: deep-tinted windows
Dome Light: dome light with fade
Front Reading Lights: front and rear reading lights
Variable IP Lighting: variable instrument panel lighting
Display Type: digital/analog appearance
Tachometer: tachometer
Compass: compass

Low Tire Pressure Warning: tire specific low-tire-pressure warning
 Park Distance Control: Reverse Sensing System rear parking sensors
 Trip Computer: trip computer
 Trip Odometer: trip odometer
 Blind Spot Sensor: blind spot
 Front Pedestrian Braking: front pedestrian detection
 Forward Collision Alert: forward collision
 Water Temp Gauge: water temp. gauge
 Engine Hour Meter: engine hour meter
 Clock: digital clock
 Systems Monitor: driver information centre
 Check Control: redundant digital speedometer
 Rear Vision Camera: rear vision camera
 Oil Pressure Warning: oil-pressure warning
 Water Temp Warning: water-temp. warning
 Battery Warning: battery warning
 Lights On Warning: lights-on warning
 Key in Ignition Warning: key-in-ignition warning
 Low Fuel Warning: low-fuel warning
 Low Washer Fluid Warning: low-washer-fluid warning
 Door Ajar Warning: door-ajar warning
 Trunk Ajar Warning: trunk-ajar warning
 Brake Fluid Warning: brake-fluid warning

Safety And Security:

ABS four-wheel ABS brakes
 Number of ABS Channels: 4 ABS channels
 Brake Assistance: brake assist
 Brake Type: four-wheel disc brakes
 Vented Disc Brakes: front and rear ventilated disc brakes
 Spare Tire Type: full-size spare tire
 Spare Tire Mount: spare tire mounted inside under cargo
 Driver Front Impact Airbag: driver and passenger front-impact airbags
 Driver Side Airbag: seat-mounted driver and passenger side-impact airbags
 Overhead Airbag: curtain 1st and 2nd row overhead airbag
 Knee Airbag: knee airbag
 Occupancy Sensor: front passenger airbag occupancy sensor
 Height Adjustable Seatbelts: height adjustable front seatbelts
 Seatbelt Pretensioners: front seatbelt pre-tensioners
 3Point Rear Centre Seatbelt: 3 point rear centre seatbelt
 Side Impact Bars: side-impact bars
 Tailgate/Rear Door Lock Type: tailgate/rear door lock included with power door locks
 Rear Child Safety Locks: rear child safety locks
 Security System: security system
 Tracker System: tracker system
 Electronic Stability: electronic stability stability control with anti-rollover
 Traction Control: ABS and driveline traction control
 Front and Rear Headrests: manual adjustable front head restraints
 Rear Headrest Control: 3 rear head restraints

Seats And Trim:

Seating Capacity max. seating capacity of 5
 Front Bucket Seats: front bucket seats
 Number of Driver Seat Adjustments: 8-way driver and passenger seat adjustments
 Reclining Driver Seat: manual reclining driver and power reclining passenger seats
 Driver Lumbar: power 2-way driver and passenger lumbar support
 Driver Height Adjustment: power height-adjustable driver and passenger seats
 Driver Fore/Aft: power driver and passenger fore/aft adjustment
 Driver Cushion Tilt: power driver and passenger cushion tilt
 Rear Seat Type: rear 35-30-35 split-bench seat
 Rear Folding Position: rear seat fold-forward seatback

Leather Upholstery: cloth front seat upholstery

Rear Seat Material: vinyl rear seat upholstery

Headliner Material: full cloth headliner

Floor Covering: full vinyl/rubber floor covering

Dashboard Console Insert, Door Panel Insert Combination: metal-look instrument panel insert, door panel insert, console insert

Shift Knob Trim: urethane shift knob

Interior Accents: metal-look interior accents

Cargo Space Trim: carpet cargo space

Trunk Lid: plastic trunk lid/rear cargo door

Cargo Tie Downs: cargo tie-downs

Cargo Light: cargo light

Cargo Tray: cargo tray/organizer

Standard Engine:

Engine 285-hp, 3.3-liter V-6 (regular gas)

Standard Transmission:

Transmission 10-speed automatic w/ OD

Prepared For: Township Of Vernon
Haw, Jason

Date 08/29/2025
AE/AM MKC/SSI

Unit #

Year 2026 **Make** Ford **Model** Police Interceptor Utility

Series Base All-Wheel Drive

Vehicle Order Type Ordered **Term** 60 **State** NJ **Customer#** 591495

\$ 46,289.00	Capitalized Price of Vehicle ¹
\$ 0.00 *	Sales Tax <u>0.0000%</u> State NJ
\$ 159.00 *	Initial License Fee
\$ 0.00	Registration Fee
\$ 1,050.00	Other: (See Page 2)
\$ 0.00	Capitalized Price Reduction
\$ 0.00	Gain Applied From Prior Unit
\$ 0.00 *	Security Deposit
\$ 0.00	Taxes

All language and acknowledgments contained in the signed quote apply to all vehicles that are ordered under this signed quote.

Order Information

Driver Name	Fire Department
Exterior Color	Vermillion Red
Interior Color	Charcoal Black w/Unique HD Cloth Front Bucket
Lic. Plate Type	Unknown
GVWR	0

\$ 47,339.00	Total Capitalized Amount (Delivered Price)
\$ 733.75	Depreciation Reserve @ <u>1.5500%</u>
\$ 203.90	Monthly Lease Charge (Based on Interest Rate - Subject to a Floor) ²
\$ 937.65	Total Monthly Rental Excluding Additional Services

Additional Fleet Management

Master Policy Enrollment Fees

\$ 0.00	Commercial Automobile Liability Enrollment
	Liability Limit <u>\$0.00</u>

\$ 0.00	Physical Damage Management
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Comp/Coll Deductible 0 / 0

\$ 0.00	Full Maintenance Program ³ Contract Miles <u>0</u>
	Incl: # Brake Sets (1 set = 1 Axle) <u>0</u>

OverMileage Charge \$ 0.00 Per Mile

Tires 0

Loaner Vehicle Not Included

\$ 0.00	Additional Services SubTotal
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\$ 0.00	Tax <u>0.0000%</u> State NJ
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\$ 937.65	Total Monthly Rental Including Additional Services
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\$ 3,314.00	Reduced Book Value at <u>60</u> Months
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\$ 400.00	Service Charge Due at Lease Termination
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Quote based on estimated annual mileage of 20,000

(Current market and vehicle conditions may also affect value of vehicle)

(Quote is Subject to Customer's Credit Approval)

Notes

Enterprise FM Trust will be the owner of the vehicle covered by this Quote. Enterprise FM Trust (not Enterprise Fleet Management) will be the Lessor of such vehicle under the Master Open - End (Equity) Lease Agreement and shall have all rights and obligations of the Lessor under the Master Open - End (Equity) Lease Agreement with respect to such vehicle. Lessee must maintain insurance coverage on the vehicle as set forth in Section 11 of the Master Open-End (Equity) Lease Agreement until the vehicle is sold.

ALL TAX AND LICENSE FEES TO BE BILLED TO LESSEE AS THEY OCCUR.

Lessee hereby authorizes this vehicle order, and agrees to lease the vehicle on the terms set forth herein and in the Master Equity Lease Agreement. In the event Lessee fails or refuses to accept delivery of the ordered vehicle, Lessee agrees that Lessor shall have the right to collect damages, including, but not limited to, a \$500 disposal fee, interest incurred, and loss of value.

LESSEE Township Of Vernon

BY

TITLE

DATE

* INDICATES ITEMS TO BE BILLED ON DELIVERY.

¹ Capitalized price of vehicle may be adjusted to reflect final manufacturer's invoice, plus a pre delivery interest charge. Lessee hereby assigns to Lessor any manufacturer rebates and/or manufacturer incentives intended for the Lessee, which rebates and/or incentives have been used by Lessor to reduce the capitalized price of the vehicle.

² Monthly lease charge will be adjusted to reflect the interest rate on the delivery date (subject to a floor).

³ The inclusion herein of references to maintenance fees/services are solely for the administrative convenience of Lessee. Notwithstanding the inclusion of such references in this [Invoice/Schedule/Quote], all such maintenance services are to be performed by Enterprise Fleet Management, Inc., and all such maintenance fees are payable by Lessee solely for the account of Enterprise Fleet Management, Inc., pursuant to that certain separate [Maintenance Agreement] entered into by and between Lessee and Enterprise Fleet Management, Inc.; provided that such maintenance fees are being billed by Enterprise FM Trust, and are payable at the direction of Enterprise FM Trust, solely as an authorized agent for collection on behalf of Enterprise Fleet Management, Inc.

Other Totals

Description	(B)illed or (C)apped	Price
Initial Administration Fee	B	\$ 60.00
Est Transport all movement	C	\$ 750.00
Courtesy Delivery Fee	C	\$ 300.00
Total Other Charges Billed		\$ 60.00
Total Other Charges Capitalized		\$ 1,050.00
Other Charges Total		\$ 1,110.00

VEHICLE INFORMATION:

2026 Ford Police Interceptor Utility Base All-Wheel Drive - US

Series ID: K8A

Pricing Summary:

	INVOICE	MSRP
Base Vehicle	\$47,094	\$48,550.00
Total Options	\$0.00	\$0.00
Destination Charge	\$1,695.00	\$1,695.00
Total Price	\$48,789.00	\$50,245.00

SELECTED COLOR:

Exterior: E4-Vermillion Red

Interior: 9W-Charcoal Black w/Unique HD Cloth Front Bucket Seats w/Vinyl Rear

SELECTED OPTIONS:

CODE	DESCRIPTION	INVOICE	MSRP
119WB	119" Wheelbase	STD	STD
9	Unique HD Cloth Front Bucket Seats w/Vinyl Rear	Included	Included
153	Front License Plate Bracket	NC	NC
425	50-State Emissions System	STD	STD
44U	Transmission: 10-Speed Automatic (44U)	NC	NC
500A	Order Code 500A	NC	NC
99B	Engine: 3.3L V6 Direct-Injection	NC	NC
9W_01	Charcoal Black w/Unique HD Cloth Front Bucket Seats w/Vinyl Rear	NC	NC
E4_01	Vermillion Red	NC	NC
PAINT	Monotone Paint Application	STD	STD
STDAX	3.73 Axle Ratio	Included	Included
STDRD	Radio: AM/FM/MP3 Capable	Included	Included
STDTR	Tires: 255/60R18 as BSW	Included	Included
STDWL	Wheels: 18" X 8" 5-Spoke Painted Black Steel	Included	Included
SYNC	SYNC Phoenix Communication & Entertainment System	Included	Included

CONFIGURED FEATURES:

Body Exterior Features:

Number Of Doors: 4
Rear Cargo Door Type: liftgate
Driver And Passenger Mirror: power remote manual folding side-view door mirrors
Convex Driver Mirror: convex driver and passenger mirror
Spoiler: rear lip spoiler
Door Handles: black
Front And Rear Bumpers: body-coloured front and rear bumpers with black rub strip
Front Tow Hooks: 1 front tow hooks
Front License Plate Bracket: front license plate bracket
Body Material: galvanized steel/aluminum body material
: class III trailering with harness, hitch
Body Side Cladding: body-coloured bodyside cladding
Grille: black grille

Convenience Features:

Air Conditioning: automatic dual-zone front air conditioning
Air Filter: air filter
Rear Air Conditioning: rear air conditioning
Cruise Control: cruise control with steering wheel controls
Trunk/Hatch/Door Remote Release: power cargo access remote release
Power Windows: power windows with driver and passenger 1-touch down
1/4 Vent Rear Windows: power rearmost windows
Remote Keyless Entry: yes remote keyless entry
Steering Wheel: steering wheel with manual tilting, manual telescoping
Day-Night Rearview Mirror: day-night rearview mirror
Driver and Passenger Vanity Mirror: driver and passenger-side visor mirrors
Emergency SOS: emergency communication system
Overhead Console: mini overhead console with storage
Glove Box: locking glove box
Driver Door Bin: driver and passenger door bins
Dashboard Storage: dashboard storage
Driver Footrest: driver's footrest
Retained Accessory Power: retained accessory power
Power Accessory Outlet: 2 12V DC power outlets

Entertainment Features:

radio: AM/FM stereo with seek-scan
Voice Activated Radio: voice activated radio
Speed Sensitive Volume: speed-sensitive volume
Steering Wheel Radio Controls: steering-wheel mounted audio controls
Speakers: 4 speakers
Internet Access: Fleet Telematics Modem internet access
1st Row LCD: 1 1st row LCD monitor
Wireless Connectivity: wireless phone connectivity
Antenna: integrated roof antenna

Lighting, Visibility and Instrumentation Features:

Headlamp Type: projector beam LED low/high beam headlamps
Front Wipers: variable intermittent speed-sensitive wipers wipers
Rear Window wiper: rear window wiper with heating wiper park
Rear Window Defroster: rear window defroster
Tinted Windows: deep-tinted windows
Dome Light: dome light with fade
Front Reading Lights: front and rear reading lights
Variable IP Lighting: variable instrument panel lighting
Display Type: digital/analog appearance
Tachometer: tachometer
Compass: compass

Low Tire Pressure Warning: tire specific low-tire-pressure warning
Park Distance Control: Reverse Sensing System rear parking sensors
Trip Computer: trip computer
Trip Odometer: trip odometer
Blind Spot Sensor: blind spot
Front Pedestrian Braking: front pedestrian detection
Forward Collision Alert: forward collision
Water Temp Gauge: water temp. gauge
Engine Hour Meter: engine hour meter
Clock: digital clock
Systems Monitor: driver information centre
Check Control: redundant digital speedometer
Rear Vision Camera: rear vision camera
Oil Pressure Warning: oil-pressure warning
Water Temp Warning: water-temp. warning
Battery Warning: battery warning
Lights On Warning: lights-on warning
Key in Ignition Warning: key-in-ignition warning
Low Fuel Warning: low-fuel warning
Low Washer Fluid Warning: low-washer-fluid warning
Door Ajar Warning: door-ajar warning
Trunk Ajar Warning: trunk-ajar warning
Brake Fluid Warning: brake-fluid warning

Safety And Security:

ABS four-wheel ABS brakes
Number of ABS Channels: 4 ABS channels
Brake Assistance: brake assist
Brake Type: four-wheel disc brakes
Vented Disc Brakes: front and rear ventilated disc brakes
Spare Tire Type: full-size spare tire
Spare Tire Mount: spare tire mounted inside under cargo
Driver Front Impact Airbag: driver and passenger front-impact airbags
Driver Side Airbag: seat-mounted driver and passenger side-impact airbags
Overhead Airbag: curtain 1st and 2nd row overhead airbag
Knee Airbag: knee airbag
Occupancy Sensor: front passenger airbag occupancy sensor
Height Adjustable Seatbelts: height adjustable front seatbelts
Seatbelt Pretensioners: front seatbelt pre-tensioners
3Point Rear Centre Seatbelt: 3 point rear centre seatbelt
Side Impact Bars: side-impact bars
Tailgate/Rear Door Lock Type: tailgate/rear door lock included with power door locks
Rear Child Safety Locks: rear child safety locks
Security System: security system
Tracker System: tracker system
Electronic Stability: electronic stability stability control with anti-rollover
Traction Control: ABS and driveline traction control
Front and Rear Headrests: manual adjustable front head restraints
Rear Headrest Control: 3 rear head restraints

Seats And Trim:

Seating Capacity max. seating capacity of 5
Front Bucket Seats: front bucket seats
Number of Driver Seat Adjustments: 8-way driver and passenger seat adjustments
Reclining Driver Seat: manual reclining driver and power reclining passenger seats
Driver Lumbar: power 2-way driver and passenger lumbar support
Driver Height Adjustment: power height-adjustable driver and passenger seats
Driver Fore/Aft: power driver and passenger fore/aft adjustment
Driver Cushion Tilt: power driver and passenger cushion tilt
Rear Seat Type: rear 35-30-35 split-bench seat
Rear Folding Position: rear seat fold-forward seatback

Leather Upholstery: cloth front seat upholstery

Rear Seat Material: vinyl rear seat upholstery

Headliner Material: full cloth headliner

Floor Covering: full vinyl/rubber floor covering

Dashboard Console Insert, Door Panel Insert Combination: metal-look instrument panel insert, door panel insert, console insert

Shift Knob Trim: urethane shift knob

Interior Accents: metal-look interior accents

Cargo Space Trim: carpet cargo space

Trunk Lid: plastic trunk lid/rear cargo door

Cargo Tie Downs: cargo tie-downs

Cargo Light: cargo light

Cargo Tray: cargo tray/organizer

Standard Engine:

Engine 285-hp, 3.3-liter V-6 (regular gas)

Standard Transmission:

Transmission 10-speed automatic w/ OD

Prepared For: Township Of Vernon
Haw, JasonDate 08/29/2025
AE/AM MKC/SSI

Unit

Year 2026 Make Ford Model Police Interceptor Utility

Series Base All-Wheel Drive

Vehicle Order Type Ordered Term 60 State NJ Customer# 591495

\$ 46,289.00	Capitalized Price of Vehicle ¹
\$ 0.00 *	Sales Tax <u>0.0000%</u> State <u>NJ</u>
\$ 159.00 *	Initial License Fee
\$ 0.00	Registration Fee
\$ 1,050.00	Other: (See Page 2)
\$ 0.00	Capitalized Price Reduction
\$ 0.00	Gain Applied From Prior Unit
\$ 0.00 *	Security Deposit
\$ 0.00	Taxes

All language and acknowledgments contained in the signed quote apply to all vehicles that are ordered under this signed quote.

Order Information

Driver Name	Fire Department
Exterior Color	Vermillion Red
Interior Color	Charcoal Black w/Unique HD Cloth Front Bucket
Lic. Plate Type	Unknown
GVWR	0

\$ 47,339.00	Total Capitalized Amount (Delivered Price)
\$ 733.75	Depreciation Reserve @ <u>1.5500%</u>
\$ 203.90	Monthly Lease Charge (Based on Interest Rate - Subject to a Floor) ²
\$ 937.65	Total Monthly Rental Excluding Additional Services

Additional Fleet Management

Master Policy Enrollment Fees

\$ 0.00	Commercial Automobile Liability Enrollment
	Liability Limit <u>\$0.00</u>

\$ 0.00	Physical Damage Management
---------	----------------------------

Comp/Coll Deductible 0 / 0

\$ 0.00	Full Maintenance Program ³ Contract Miles <u>0</u>
	Incl: # Brake Sets (1 set = 1 Axle) <u>0</u>

OverMileage Charge \$ 0.00 Per Mile# Tires 0

Loaner Vehicle Not Included

\$ 0.00	Additional Services SubTotal
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\$ 0.00	Tax <u>0.0000%</u> State <u>NJ</u>
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\$ 937.65	Total Monthly Rental Including Additional Services
------------------	---

\$ 3,314.00	Reduced Book Value at <u>60</u> Months
-------------	--

\$ 400.00	Service Charge Due at Lease Termination
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Quote based on estimated annual mileage of 20,000

(Current market and vehicle conditions may also affect value of vehicle)

(Quote is Subject to Customer's Credit Approval)

Notes

Enterprise FM Trust will be the owner of the vehicle covered by this Quote. Enterprise FM Trust (not Enterprise Fleet Management) will be the Lessor of such vehicle under the Master Open - End (Equity) Lease Agreement and shall have all rights and obligations of the Lessor under the Master Open - End (Equity) Lease Agreement with respect to such vehicle. Lessee must maintain insurance coverage on the vehicle as set forth in Section 11 of the Master Open-End (Equity) Lease Agreement until the vehicle is sold.

ALL TAX AND LICENSE FEES TO BE BILLED TO LESSEE AS THEY OCCUR.

Lessee hereby authorizes this vehicle order, and agrees to lease the vehicle on the terms set forth herein and in the Master Equity Lease Agreement. In the event Lessee fails or refuses to accept delivery of the ordered vehicle, Lessee agrees that Lessor shall have the right to collect damages, including, but not limited to, a \$500 disposal fee, interest incurred, and loss of value.

LESSEE Township Of Vernon
BY

TITLE

DATE

* INDICATES ITEMS TO BE BILLED ON DELIVERY.

¹ Capitalized price of vehicle may be adjusted to reflect final manufacturer's invoice, plus a pre delivery interest charge. Lessee hereby assigns to Lessor any manufacturer rebates and/or manufacturer incentives intended for the Lessee, which rebates and/or incentives have been used by Lessor to reduce the capitalized price of the vehicle.

² Monthly lease charge will be adjusted to reflect the interest rate on the delivery date (subject to a floor).

³ The inclusion herein of references to maintenance fees/services are solely for the administrative convenience of Lessee. Notwithstanding the inclusion of such references in this [Invoice/Schedule/Quote], all such maintenance services are to be performed by Enterprise Fleet Management, Inc., and all such maintenance fees are payable by Lessee solely for the account of Enterprise Fleet Management, Inc., pursuant to that certain separate [Maintenance Agreement] entered into by and between Lessee and Enterprise Fleet Management, Inc.; provided that such maintenance fees are being billed by Enterprise FM Trust, and are payable at the direction of Enterprise FM Trust, solely as an authorized agent for collection on behalf of Enterprise Fleet Management, Inc.

Other Totals

Description	(B)illed or (C)apped	Price
Initial Administration Fee	B	\$ 60.00
Est Transport all movement	C	\$ 750.00
Courtesy Delivery Fee	C	\$ 300.00
Total Other Charges Billed		\$ 60.00
Total Other Charges Capitalized		\$ 1,050.00
Other Charges Total		\$ 1,110.00

VEHICLE INFORMATION:

2026 Ford Police Interceptor Utility Base All-Wheel Drive - US
Series ID: K8A

Pricing Summary:

	INVOICE	MSRP
Base Vehicle	\$47,094	\$48,550.00
Total Options	\$0.00	\$0.00
Destination Charge	\$1,695.00	\$1,695.00
Total Price	\$48,789.00	\$50,245.00

SELECTED COLOR:

Exterior:

E4-Vermillion Red

Interior:

9W-Charcoal Black w/Unique HD Cloth Front Bucket Seats w/Vinyl Rear

SELECTED OPTIONS:

CODE	DESCRIPTION	INVOICE	MSRP
119WB	119" Wheelbase	STD	STD
9	Unique HD Cloth Front Bucket Seats w/Vinyl Rear	Included	Included
153	Front License Plate Bracket	NC	NC
425	50-State Emissions System	STD	STD
44U	Transmission: 10-Speed Automatic (44U)	NC	NC
500A	Order Code 500A	NC	NC
99B	Engine: 3.3L V6 Direct-Injection	NC	NC
9W_01	Charcoal Black w/Unique HD Cloth Front Bucket Seats w/Vinyl Rear	NC	NC
E4_01	Vermillion Red	NC	NC
PAINT	Monotone Paint Application	STD	STD
STDAX	3.73 Axle Ratio	Included	Included
STDRD	Radio: AM/FM/MP3 Capable	Included	Included
STDTR	Tires: 255/60R18 as BSW	Included	Included
STDWL	Wheels: 18" X 8" 5-Spoke Painted Black Steel	Included	Included
SYNC	SYNC Phoenix Communication & Entertainment System	Included	Included

CONFIGURED FEATURES:

Body Exterior Features:

Number Of Doors: 4
Rear Cargo Door Type: liftgate
Driver And Passenger Mirror: power remote manual folding side-view door mirrors
Convex Driver Mirror: convex driver and passenger mirror
Spoiler: rear lip spoiler
Door Handles: black
Front And Rear Bumpers: body-coloured front and rear bumpers with black rub strip
Front Tow Hooks: 1 front tow hooks
Front License Plate Bracket: front license plate bracket
Body Material: galvanized steel/aluminum body material
: class III trailering with harness, hitch
Body Side Cladding: body-coloured bodyside cladding
Grille: black grille

Convenience Features:

Air Conditioning: automatic dual-zone front air conditioning
Air Filter: air filter
Rear Air Conditioning: rear air conditioning
Cruise Control: cruise control with steering wheel controls
Trunk/Hatch/Door Remote Release: power cargo access remote release
Power Windows: power windows with driver and passenger 1-touch down
1/4 Vent Rear Windows: power rearmost windows
Remote Keyless Entry: yes remote keyless entry
Steering Wheel: steering wheel with manual tilting, manual telescoping
Day-Night Rearview Mirror: day-night rearview mirror
Driver and Passenger Vanity Mirror: driver and passenger-side visor mirrors
Emergency SOS: emergency communication system
Overhead Console: mini overhead console with storage
Glove Box: locking glove box
Driver Door Bin: driver and passenger door bins
Dashboard Storage: dashboard storage
Driver Footrest: driver's footrest
Retained Accessory Power: retained accessory power
Power Accessory Outlet: 2 12V DC power outlets

Entertainment Features:

radio: AM/FM stereo with seek-scan
Voice Activated Radio: voice activated radio
Speed Sensitive Volume: speed-sensitive volume
Steering Wheel Radio Controls: steering-wheel mounted audio controls
Speakers: 4 speakers
Internet Access: Fleet Telematics Modem internet access
1st Row LCD: 1 1st row LCD monitor
Wireless Connectivity: wireless phone connectivity
Antenna: integrated roof antenna

Lighting, Visibility and Instrumentation Features:

Headlamp Type: projector beam LED low/high beam headlamps
Front Wipers: variable intermittent speed-sensitive wipers wipers
Rear Window wiper: rear window wiper with heating wiper park
Rear Window Defroster: rear window defroster
Tinted Windows: deep-tinted windows
Dome Light: dome light with fade
Front Reading Lights: front and rear reading lights
Variable IP Lighting: variable instrument panel lighting
Display Type: digital/analog appearance
Tachometer: tachometer
Compass: compass

Low Tire Pressure Warning: tire specific low-tire-pressure warning
Park Distance Control: Reverse Sensing System rear parking sensors
Trip Computer: trip computer
Trip Odometer: trip odometer
Blind Spot Sensor: blind spot
Front Pedestrian Braking: front pedestrian detection
Forward Collision Alert: forward collision
Water Temp Gauge: water temp. gauge
Engine Hour Meter: engine hour meter
Clock: digital clock
Systems Monitor: driver information centre
Check Control: redundant digital speedometer
Rear Vision Camera: rear vision camera
Oil Pressure Warning: oil-pressure warning
Water Temp Warning: water-temp. warning
Battery Warning: battery warning
Lights On Warning: lights-on warning
Key in Ignition Warning: key-in-ignition warning
Low Fuel Warning: low-fuel warning
Low Washer Fluid Warning: low-washer-fluid warning
Door Ajar Warning: door-ajar warning
Trunk Ajar Warning: trunk-ajar warning
Brake Fluid Warning: brake-fluid warning

Safety And Security:

ABS four-wheel ABS brakes
Number of ABS Channels: 4 ABS channels
Brake Assistance: brake assist
Brake Type: four-wheel disc brakes
Vented Disc Brakes: front and rear ventilated disc brakes
Spare Tire Type: full-size spare tire
Spare Tire Mount: spare tire mounted inside under cargo
Driver Front Impact Airbag: driver and passenger front-impact airbags
Driver Side Airbag: seat-mounted driver and passenger side-impact airbags
Overhead Airbag: curtain 1st and 2nd row overhead airbag
Knee Airbag: knee airbag
Occupancy Sensor: front passenger airbag occupancy sensor
Height Adjustable Seatbelts: height adjustable front seatbelts
Seatbelt Pretensioners: front seatbelt pre-tensioners
3Point Rear Centre Seatbelt: 3 point rear centre seatbelt
Side Impact Bars: side-impact bars
Tailgate/Rear Door Lock Type: tailgate/rear door lock included with power door locks
Rear Child Safety Locks: rear child safety locks
Security System: security system
Tracker System: tracker system
Electronic Stability: electronic stability stability control with anti-rollover
Traction Control: ABS and driveline traction control
Front and Rear Headrests: manual adjustable front head restraints
Rear Headrest Control: 3 rear head restraints

Seats And Trim:

Seating Capacity max. seating capacity of 5
Front Bucket Seats: front bucket seats
Number of Driver Seat Adjustments: 8-way driver and passenger seat adjustments
Reclining Driver Seat: manual reclining driver and power reclining passenger seats
Driver Lumbar: power 2-way driver and passenger lumbar support
Driver Height Adjustment: power height-adjustable driver and passenger seats
Driver Fore/Aft: power driver and passenger fore/aft adjustment
Driver Cushion Tilt: power driver and passenger cushion tilt
Rear Seat Type: rear 35-30-35 split-bench seat
Rear Folding Position: rear seat fold-forward seatback

Leather Upholstery: cloth front seat upholstery

Rear Seat Material: vinyl rear seat upholstery

Headliner Material: full cloth headliner

Floor Covering: full vinyl/rubber floor covering

Dashboard Console Insert, Door Panel Insert Combination: metal-look instrument panel insert, door panel insert, console insert

Shift Knob Trim: urethane shift knob

Interior Accents: metal-look interior accents

Cargo Space Trim: carpet cargo space

Trunk Lid: plastic trunk lid/rear cargo door

Cargo Tie Downs: cargo tie-downs

Cargo Light: cargo light

Cargo Tray: cargo tray/organizer

Standard Engine:

Engine 285-hp, 3.3-liter V-6 (regular gas)

Standard Transmission:

Transmission 10-speed automatic w/ OD



Prepared For: Township Of Vernon				Date	08/29/2025
Haw, Jason				AE/AM	MKC/SSI
Unit #					
Year	2026	Make	Ford	Model	Police Interceptor Utility
Series	Base All-Wheel Drive				
Vehicle Order Type	Ordered	Term	60	State	NJ Customer# 591495
\$ 46,289.00	Capitalized Price of Vehicle ¹				
\$0.00	*	Sales Tax <u>0.0000%</u> State <u>NJ</u>			
\$ 159.00	*	Initial License Fee			
\$ 0.00	Registration Fee				
\$ 1,050.00	Other: (See Page 2)				
\$ 0.00	Capitalized Price Reduction				
\$ 0.00	Gain Applied From Prior Unit				
\$ 0.00	*	Security Deposit			
\$0.00	Taxes				
<hr/>					
\$ 47,339.00	Total Capitalized Amount (Delivered Price)				
\$ 733.75	Depreciation Reserve @ <u>1.5500%</u>				
\$ 203.90	Monthly Lease Charge (Based on Interest Rate - Subject to a Floor) ²				
<hr/>					
\$ 937.65	Total Monthly Rental Excluding Additional Services				
Additional Fleet Management					
Master Policy Enrollment Fees					
\$ 0.00	Commercial Automobile Liability Enrollment				
	Liability Limit <u>\$0.00</u>				
\$ 0.00	Physical Damage Management				
\$ 0.00	Full Maintenance Program ³ Contract Miles <u>0</u>				
	Incl: # Brake Sets (1 set = 1 Axle) <u>0</u>				
<hr/>					
\$ 0.00	Additional Services SubTotal				
<hr/>					
\$ 0.00	Tax	<u>0.0000%</u>	State <u>NJ</u>		
<hr/>					
\$ 937.65	Total Monthly Rental Including Additional Services				
\$ 3,314.00	Reduced Book Value at <u>60</u> Months				
\$ 400.00	Service Charge Due at Lease Termination				

All language and acknowledgments contained in the signed quote apply to all vehicles that are ordered under this signed quote.

Order Information

Driver Name	Fire Department
Exterior Color	Vermillion Red
Interior Color	Charcoal Black w/Unique HD Cloth Front Bucket
Lic. Plate Type	Unknown
GVWR	0

All language and acknowledgments contained in the signed quote apply to all vehicles that are ordered under this signed quote.

Order Information

Driver Name	Fire Department
Exterior Color	Vermillion Red
Interior Color	Charcoal Black w/Unique HD Cloth Front Bucket
Lic. Plate Type	Unknown
GVWR	0

Quote based on estimated annual mileage of 20,000
(Current market and vehicle conditions may also affect value of vehicle)
(Quote is Subject to Customer's Credit Approval)
Notes

Enterprise FM Trust will be the owner of the vehicle covered by this Quote. Enterprise FM Trust (not Enterprise Fleet Management) will be the Lessor of such vehicle under the Master Open - End (Equity) Lease Agreement and shall have all rights and obligations of the Lessor under the Master Open - End (Equity) Lease Agreement with respect to such vehicle. Lessee must maintain insurance coverage on the vehicle as set forth in Section 11 of the Master Open-End (Equity) Lease Agreement until the vehicle is sold.

ALL TAX AND LICENSE FEES TO BE BILLED TO LESSEE AS THEY OCCUR.

Lessee hereby authorizes this vehicle order, and agrees to lease the vehicle on the terms set forth herein and in the Master Equity Lease Agreement. In the event Lessee fails or refuses to accept delivery of the ordered vehicle, Lessee agrees that Lessor shall have the right to collect damages, including, but not limited to, a \$500 disposal fee, interest incurred, and loss of value.

LESSEE Township Of Vernon

BY	TITLE	DATE
----	-------	------

* INDICATES ITEMS TO BE BILLED ON DELIVERY.

¹ Capitalized price of vehicle may be adjusted to reflect final manufacturer's invoice, plus a pre delivery interest charge. Lessee hereby assigns to Lessor any manufacturer rebates and/or manufacturer incentives intended for the Lessee, which rebates and/or incentives have been used by Lessor to reduce the capitalized price of the vehicle.

² Monthly lease charge will be adjusted to reflect the interest rate on the delivery date (subject to a floor).

³ The inclusion herein of references to maintenance fees/services are solely for the administrative convenience of Lessee. Notwithstanding the inclusion of such references in this [Invoice/Schedule/Quote], all such maintenance services are to be performed by Enterprise Fleet Management, Inc., and all such maintenance fees are payable by Lessee solely for the account of Enterprise Fleet Management, Inc., pursuant to that certain separate [Maintenance Agreement] entered into by and between Lessee and Enterprise Fleet Management, Inc.; provided that such maintenance fees are being billed by Enterprise FM Trust, and are payable at the direction of Enterprise FM Trust, solely as an authorized agent for collection on behalf of Enterprise Fleet Management, Inc.



Other Totals

Description	(B)illed or (C)apped	Price
Initial Administration Fee	B	\$ 60.00
Est Transport all movement	C	\$ 750.00
Courtesy Delivery Fee	C	\$ 300.00
Total Other Charges Billed		\$ 60.00
Total Other Charges Capitalized		\$ 1,050.00
Other Charges Total		\$ 1,110.00

**VEHICLE INFORMATION:**

2026 Ford Police Interceptor Utility Base All-Wheel Drive - US

Series ID: K8A

Pricing Summary:

	INVOICE	MSRP
Base Vehicle	\$47,094	\$48,550.00
Total Options	\$0.00	\$0.00
Destination Charge	\$1,695.00	\$1,695.00
Total Price	\$48,789.00	\$50,245.00

SELECTED COLOR:

Exterior: E4-Vermillion Red

Interior: 9W-Charcoal Black w/Unique HD Cloth Front Bucket Seats w/Vinyl Rear

SELECTED OPTIONS:

CODE	DESCRIPTION	INVOICE	MSRP
119WB	119" Wheelbase	STD	STD
9	Unique HD Cloth Front Bucket Seats w/Vinyl Rear	Included	Included
153	Front License Plate Bracket	NC	NC
425	50-State Emissions System	STD	STD
44U	Transmission: 10-Speed Automatic (44U)	NC	NC
500A	Order Code 500A	NC	NC
99B	Engine: 3.3L V6 Direct-Injection	NC	NC
9W_01	Charcoal Black w/Unique HD Cloth Front Bucket Seats w/Vinyl Rear	NC	NC
E4_01	Vermillion Red	NC	NC
PAINT	Monotone Paint Application	STD	STD
STDAX	3.73 Axle Ratio	Included	Included
STDRD	Radio: AM/FM/MP3 Capable	Included	Included
STDTR	Tires: 255/60R18 as BSW	Included	Included
STDWL	Wheels: 18" X 8" 5-Spoke Painted Black Steel	Included	Included
SYNC	SYNC Phoenix Communication & Entertainment System	Included	Included

CONFIGURED FEATURES:

Body Exterior Features:

Number Of Doors: 4
Rear Cargo Door Type: liftgate
Driver And Passenger Mirror: power remote manual folding side-view door mirrors
Convex Driver Mirror: convex driver and passenger mirror
Spoiler: rear lip spoiler
Door Handles: black
Front And Rear Bumpers: body-coloured front and rear bumpers with black rub strip
Front Tow Hooks: 1 front tow hooks
Front License Plate Bracket: front license plate bracket
Body Material: galvanized steel/aluminum body material
: class III trailering with harness, hitch
Body Side Cladding: body-coloured bodyside cladding
Grille: black grille

Convenience Features:

Air Conditioning: automatic dual-zone front air conditioning
Air Filter: air filter
Rear Air Conditioning: rear air conditioning
Cruise Control: cruise control with steering wheel controls
Trunk/Hatch/Door Remote Release: power cargo access remote release
Power Windows: power windows with driver and passenger 1-touch down
1/4 Vent Rear Windows: power rearmost windows
Remote Keyless Entry: yes remote keyless entry
Steering Wheel: steering wheel with manual tilting, manual telescoping
Day-Night Rearview Mirror: day-night rearview mirror
Driver and Passenger Vanity Mirror: driver and passenger-side visor mirrors
Emergency SOS: emergency communication system
Overhead Console: mini overhead console with storage
Glove Box: locking glove box
Driver Door Bin: driver and passenger door bins
Dashboard Storage: dashboard storage
Driver Footrest: driver's footrest
Retained Accessory Power: retained accessory power
Power Accessory Outlet: 2 12V DC power outlets

Entertainment Features:

radio: AM/FM stereo with seek-scan
Voice Activated Radio: voice activated radio
Speed Sensitive Volume: speed-sensitive volume
Steering Wheel Radio Controls: steering-wheel mounted audio controls
Speakers: 4 speakers
Internet Access: Fleet Telematics Modem internet access
1st Row LCD: 1 1st row LCD monitor
Wireless Connectivity: wireless phone connectivity
Antenna: integrated roof antenna

Lighting, Visibility and Instrumentation Features:

Headlamp Type: projector beam LED low/high beam headlamps
Front Wipers: variable intermittent speed-sensitive wipers wipers
Rear Window wiper: rear window wiper with heating wiper park
Rear Window Defroster: rear window defroster
Tinted Windows: deep-tinted windows
Dome Light: dome light with fade
Front Reading Lights: front and rear reading lights
Variable IP Lighting: variable instrument panel lighting
Display Type: digital/analog appearance
Tachometer: tachometer
Compass: compass

Low Tire Pressure Warning: tire specific low-tire-pressure warning
Park Distance Control: Reverse Sensing System rear parking sensors
Trip Computer: trip computer
Trip Odometer: trip odometer
Blind Spot Sensor: blind spot
Front Pedestrian Braking: front pedestrian detection
Forward Collision Alert: forward collision
Water Temp Gauge: water temp. gauge
Engine Hour Meter: engine hour meter
Clock: digital clock
Systems Monitor: driver information centre
Check Control: redundant digital speedometer
Rear Vision Camera: rear vision camera
Oil Pressure Warning: oil-pressure warning
Water Temp Warning: water-temp. warning
Battery Warning: battery warning
Lights On Warning: lights-on warning
Key in Ignition Warning: key-in-ignition warning
Low Fuel Warning: low-fuel warning
Low Washer Fluid Warning: low-washer-fluid warning
Door Ajar Warning: door-ajar warning
Trunk Ajar Warning: trunk-ajar warning
Brake Fluid Warning: brake-fluid warning

Safety And Security:

ABS four-wheel ABS brakes
Number of ABS Channels: 4 ABS channels
Brake Assistance: brake assist
Brake Type: four-wheel disc brakes
Vented Disc Brakes: front and rear ventilated disc brakes
Spare Tire Type: full-size spare tire
Spare Tire Mount: spare tire mounted inside under cargo
Driver Front Impact Airbag: driver and passenger front-impact airbags
Driver Side Airbag: seat-mounted driver and passenger side-impact airbags
Overhead Airbag: curtain 1st and 2nd row overhead airbag
Knee Airbag: knee airbag
Occupancy Sensor: front passenger airbag occupancy sensor
Height Adjustable Seatbelts: height adjustable front seatbelts
Seatbelt Pretensioners: front seatbelt pre-tensioners
3Point Rear Centre Seatbelt: 3 point rear centre seatbelt
Side Impact Bars: side-impact bars
Tailgate/Rear Door Lock Type: tailgate/rear door lock included with power door locks
Rear Child Safety Locks: rear child safety locks
Security System: security system
Tracker System: tracker system
Electronic Stability: electronic stability stability control with anti-rollover
Traction Control: ABS and driveline traction control
Front and Rear Headrests: manual adjustable front head restraints
Rear Headrest Control: 3 rear head restraints

Seats And Trim:

Seating Capacity max. seating capacity of 5
Front Bucket Seats: front bucket seats
Number of Driver Seat Adjustments: 8-way driver and passenger seat adjustments
Reclining Driver Seat: manual reclining driver and power reclining passenger seats
Driver Lumbar: power 2-way driver and passenger lumbar support
Driver Height Adjustment: power height-adjustable driver and passenger seats
Driver Fore/Aft: power driver and passenger fore/aft adjustment
Driver Cushion Tilt: power driver and passenger cushion tilt
Rear Seat Type: rear 35-30-35 split-bench seat
Rear Folding Position: rear seat fold-forward seatback

Leather Upholstery: cloth front seat upholstery

Rear Seat Material: vinyl rear seat upholstery

Headliner Material: full cloth headliner

Floor Covering: full vinyl/rubber floor covering

Dashboard Console Insert, Door Panel Insert Combination: metal-look instrument panel insert, door panel insert, console insert

Shift Knob Trim: urethane shift knob

Interior Accents: metal-look interior accents

Cargo Space Trim: carpet cargo space

Trunk Lid: plastic trunk lid/rear cargo door

Cargo Tie Downs: cargo tie-downs

Cargo Light: cargo light

Cargo Tray: cargo tray/organizer

Standard Engine:

Engine 285-hp, 3.3-liter V-6 (regular gas)

Standard Transmission:

Transmission 10-speed automatic w/ OD

TOWNSHIP OF VERNON

ORDINANCE #25-13

**AN ORDINANCE OF THE TOWNSHIP OF VERNON
AMENDING CHAPTER 250, ARTICLE II "FEES AND
ESCROWS ENUMERATED", § 250-11, OF THE REVISED
GENERAL ORDINANCES OF THE TOWNSHIP OF
VERNON.**

WHEREAS, Vernon Township Police Department ("Department") expends significant time and resources in responding to requests for copies of body-worn camera footage; and

WHEREAS, the Department has prepared on numerous occasions copies of camera footage for requestors who do not follow through with collecting their requested records, preventing the Department from collecting a fee for the time and effort spent producing the copied footage.

NOW, THEREFORE, BE IT ORDAINED, by the Mayor and Township Council of the Township of Vernon, County of Sussex, and State of New Jersey, that certain sections of the Township Code be amended and added as follows:

SECTION 1. Chapter 250, Article II, of the Revised General Ordinances of the Township of Vernon, is hereby amended as follows:

§250-11. Fees assessed for government record requests through Open Public Records Act.

New Jersey has adopted the Open Public Records Act, "OPRA," N.J.S.A. 47: 1A- 1, which has as its general purpose making government records more available to the public than they have been in the past. Through N.J.S.A. 47: 1A- 5, OPRA permits municipalities to require the payment of fees and special service charges as a prerequisite to the production of records. In accordance with OPRA, when a request for records is made via OPRA, the following fees shall be assessed:

A. Except as otherwise provided by law or regulation, the following fees shall be assessed for the duplication of a government record embodied in the form of printed matter:

1) per page for letter-sized pages and smaller: \$ 0. 05.

2) per page for legal-sized pages and larger: \$ 0. 07.

3) records supplied in another medium, such as CDs, DVDs, thumb drives, large maps and plans, and other materials shall be charged at the actual cost of duplication, the "actual cost" is the specific fee the agency paid to purchase the materials.

B. Except as provided in Subsection E of this section, electronic copies of records *i.e.*, records sent via email and fax, shall be provided free of charge, provided the Township is able to provide the requested materials electronically.

C. Mailing costs to ship copied records to requestors will be based on their selected shipping means (U.S. Postal Service, FedEx, or UPS) and be the direct costs for shipping.

D. The Township should assess a special service charge when the nature, format, manner of collation, or volume of records to be collected, redacted and produced involves extraordinary time and effort. See N.J.S.A. 47: 1A- 5(c). In accordance with OPRA, special service charges shall be based upon the actual direct cost of providing the records, including the cost of materials, technology, and labor. The Township shall provide a requestor an estimate of the special service charge prior to incurring the charge. The Township may request a deposit from the requestor prior to processing any OPRA special service charge.

E. Camera Footage— When body- worn camera/ police vehicle footage is requested from Vernon Police Department, the footage generally requires review for possible redaction.

1) for every one (1) hour of camera footage requested, it shall be assumed that three (3) hours were required to review the footage for redaction purposes.

2) requests for camera footage will be charged a fee of actual direct cost meaning hourly rate of the lowest level employee capable of fulfilling the request (no fringe benefits).

3) camera footage review fees shall be billable in half-hour increments.

4) requests for body-worn / vehicle camera footage with run-times of less than one-half (.5) hours shall be provided free of charge.

5) prior to reviewing and production of recorded camera footage, the requestor shall be provided with an estimated charge for production of the footage. For the review and production to proceed, the requestor shall provide Vernon Township Police with a deposit in the amount of fifty (50%) percent of the estimated charge.

SECTION 2. All other Ordinances or parts thereof inconsistent with the provisions of this Ordinance are hereby repealed as to such inconsistency.

SECTION 3. If any section, paragraph, subdivision, clause or provision of this Ordinance shall be adjudged invalid, such adjudication shall apply only to the section, paragraph, subdivision, clause or provision so adjudged and the remainder of this Ordinance shall be deemed valid and effective.

SECTION 4. This Ordinance shall take effect upon its passage and publication according to law.

TOWNSHP OF VERNON

ORDINANCE #25-11

AN ORDINANCE TO AMEND CHAPTER 5, ENTITLED, “ADMINISTRATION OF GOVERNMENT” OF THE CODE OF THE TOWNSHIP OF VERNON, SUSSEX COUNTY, NEW JERSEY.

WHEREAS, the Township Council of the Township of Vernon has reviewed the Municipal Code regarding the legal requirements of the Township Clerk as the Custodian of records and finds that an amendment is necessary to conform with New Jersey law and safeguard confidential information in municipal records.

NOW, THEREFORE, BE IT ORDAINED, by the Mayor and Council of the Township of Vernon, in the County of Sussex, and State of New Jersey, as follows:

SECTION 1. Chapter 5, entitled “Administration of Government”, Article VIII, “Office of the Clerk, Section 5-42, “Custodian of records”, is hereby amended and supplemented as follows:

“5-42. Custodian of records.

- A. The Clerk is designated the Custodian of records and shall have custody of and shall safely keep all records, books and documents of the Township, except those committed by the Charter, law, or ordinance to any other office or transferred thereto by the Mayor.
- B. The Clerk or her/his designee shall be the Administrator of all electronically stored data on the municipal servers and computer systems. The Clerk’s designee as Co-Administrator must be a contracted and approved vendor of an Information Technology Company entered into pursuant to the Local Public Contracts Law at N.J.S.A. 40A:11-1, et seq., and the Local Public Contracts Law Rules at N.J.A.C. 5:30-5.1 et seq., N.J.A.C. 5:30-11.1, et seq. and N.J.A.C. 5:34-1, et seq., and approved by the Mayor and Council.
- C. The Clerk shall, upon request for records by the public pursuant to the Open Public Records Act, N.J.S.A. 47:1A-1, et seq., and upon the payment of the fees prescribed therefor by ordinance of the Council or law, will furnish certified copies of any such record in custody, under the Corporate Seal of the Township in accordance with the law. For records requested in the daily operations of the Township, the Clerk shall upon redaction of confidential information provide same to the requesting Department Head or Officer.
- D. The Clerk shall before each yearly reorganization meeting of the Township of Vernon submit the departments and officers who will be designated by appointment as Deputy

Custodians of Records by Resolution of the Governing Body. These Officers shall help the Clerk obtain records and facilitate requests pursuant to the Open Public Records Act N.J.S.A. 47:1A-1, et seq., in the Officers department.”

SECTION 2. All other Ordinances or parts thereof inconsistent with the provisions of this Ordinance are hereby repealed as to such inconsistency.

SECTION 3. If any section, paragraph, subdivision, clause or provision of this Ordinance shall be adjudged invalid, such adjudication shall apply only to the section, paragraph, subdivision, clause or provision so adjudged and the remainder of this Ordinance shall be deemed valid and effective.

SECTION 4. This Ordinance shall take effect upon its passage and publication according to law.

CERTIFICATION

This is to certify that the above Ordinance was introduced and passed on first reading at the Meeting of the Township Council held on August 11, 2025, and the same came up for final passage and was adopted at the Meeting of the Township Council held on September 8, 2025 at which time all persons interested were given an opportunity to be heard. The above ordinance will be in full force and effect in the Township of Vernon according to law.

Marcy Gianattasio, Clerk
Township of Vernon

Anthony Rossi, Mayor

Township of Vernon

INTRODUCED: August 11, 2025

NAME	M	S	YES	NO	ABSTAIN	ABSENT
Buccieri, N.	X		X			
DeBenedetto, J.		X	X			
Higgins, W.			X			
Sparta, B.						X
Rizzuto, P.			X			

ADOPTED:

NAME	M	S	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						

TOWNSHP OF VERNON

ORDINANCE #25-12

**AN ORDINANCE TO AMEND CHAPTER 250, ENTITLED,
“FEES AND ESCROWS” OF THE CODE OF THE
TOWNSHIP OF VERNON, SUSSEX COUNTY, NEW
JERSEY.**

WHEREAS, the Mayor and Township Council of the Township of Vernon has reviewed the Municipal Code regarding fees or pistol purchase permits and firearm carry permit applications and find that an amendment is necessary.

NOW, THEREFORE, BE IT ORDAINED, by the Mayor and Council of the Township of Vernon, in the County of Sussex, and State of New Jersey, as follows:

SECTION 1. Chapter 250, entitled “Fees and Escrows”, Article II, “Fees and Escrows Enumerate”, Section 250-11, “Police”, subsection A, Nos. 13 and 17 only, are hereby amended and supplemented as follows:

“250-11. Police.

(13) Pistol purchase permit: \$2.00

(17) Firearm carry permit application fee: \$50.00.”

SECTION 2. These amended fees shall become effective on January 1, 2026.

SECTION 3. All other Ordinances or parts thereof inconsistent with the provisions of this Ordinance are hereby repealed as to such inconsistency.

SECTION 4. If any section, paragraph, subdivision, clause or provision of this Ordinance shall be adjudged invalid, such adjudication shall apply only to the section, paragraph, subdivision, clause or provision so adjudged and the remainder of this Ordinance shall be deemed valid and effective.

SECTION 5. This Ordinance shall take effect upon its passage and publication according to law.

CERTIFICATION

This is to certify that the above Ordinance was introduced and passed on first reading at the Meeting of the Township Council held on August 11, 2025, and the same came up for final passage and was adopted at the Meeting of the Township Council held on September 8, 2025 at which time all persons interested were given an opportunity to be heard. The above ordinance will be in full force and effect in the Township of Vernon according to law.

Marcy Gianattasio, Clerk
Township of Vernon

Anthony Rossi, Mayor

Township of Vernon

INTRODUCED: August 11, 2025

NAME	M	S	YES	NO	ABSTAIN	ABSENT
Buccieri, N.	X		X			
DeBenedetto, J.		X	X			
Higgins, W.			X			
Sparta, B.						X
Rizzuto, P.			X			

ADOPTED:

NAME	M	S	YES	NO	ABSTAIN	ABSENT
Buccieri, N.						
DeBenedetto, J.						
Higgins, W.						
Sparta, B.						
Rizzuto, P.						