

FIFTEEN ROPE FERRY ROAD
WATERFORD, CT 06385-2886



PHONE: 860-442-0553

www.waterfordct.org

RECEIVED FOR RECORD
WATERFORD, CT

2023 OCT 27 P 12:29

AGENDA
BOARD OF SELECTMEN SPECIAL MEETING

ATTEST: *Doreen T. Conner*
TOWN CLERK

Monday, October 30, 2023

5:00 PM

Waterford Town Hall (Appleby Room)

(Procedural Action: Check register to be signed by the Board of Selectmen in accordance with CGS 7-83)

- 1. Call to Order:**
- 2. Pledge of Allegiance:**
- 3. Public Comment:**
- 4. Police Department – Disposal of Surplus:** To consider and act on a recommendation from the Purchasing Agent, Shea Davy, on behalf of the Chief of Police, Marc Balestracci, for surplus disposal of the following item that is no longer useful to the Town:
 - Spare Vehicle, 2005 Ford PU, VIN 1FM5K8AR7FGA94448
- 5. Finance – Out-of-Series Transfer:** To consider and act on the following request for a FY24 Out-of-Series Transfer from the Director of Finance, Kim Allen, in the amount of \$1,600 for a cash counter and forward on to the Board of Finance if approved.
- 6. Public Works - Additional Funding Request:** To consider and act on a request for an additional appropriation from the Public Works Director, Gary Schneider, in the amount of \$11,290 to line #33021-55867 (Cohanzie UST Tank Removal) and forward on to the Board of Finance if approved.
- 7. Planning Department – Certificate of Adoption:** To consider and act on a request for a resolution adopting the Hazard Mitigation and Climate Adaptation plan update, 2023-2028.
- 8. Adjournment:**

#4

FINANCE DEPARTMENT

Memo

To: The Board of Selectmen
From: Shea Davy
Date: October 19, 2023
Re: Disposal of aged assets

Dear Mr. Brule,

In accordance with the Town Property Ordinance, Chapter 3.08.020, it is requested that the Board of Selectmen please consider an act to surplus for disposal, on Behalf of the Police Department, 2015 Ford Explorer, VIN# 1FM5K8AR7FGA94448 Asset ID: 101322 Tag: Car 22. Upon your approval, the Purchasing Agent will dispose of this item by auction.

Thank you for your consideration

Shea Davy

Shea Davy
Purchasing Agent,
Town of Waterford



WATERFORD POLICE DEPARTMENT
41 AVERY LANE
WATERFORD, CT 06385-2819



Marc Balestracci
Police Chief

(860) 442-9451 TEL
mbalestracci@waterfordct.org

To: Purchasing Agent Shea Davy, Finance Director Kim Allen
Cc: First Selectman Rob Brule
From: Marc Balestracci, Chief of Police
Date: October 19, 2023
Re: Vehicle Surplus Request

I am respectfully requesting the following vehicle be placed on the town's surplus list:

Year: 2015
Make: Ford
Model: PIU
VIN: 1FM5K8AR7FGA94448

This vehicle is not part of the Fleet Plan and has reached the end of its service life. It was a vehicle that was retained after having been replaced with a new vehicle, to be used solely for road jobs. It currently has 137,108 miles and 19,999 hours and all usable equipment has been removed. The vehicle has developed a water leak which has resulted in a mildew/odor issue in the passenger compartment that has made it unfit for use.

This vehicle will be replaced in the near future by another vehicle. We are requesting that it be placed on the surplus due to the high mileage, high engine hours, and the water leak/mildew issue.

Thank you for any consideration.

Thank you,

Marc Balestracci
Chief of Police
Waterford Police Department

TOWN OF WATERFORD
TRANSFER REQUEST FORM
Out of Series Transfer Request

FINANCE _____
DEPARTMENT

Line No.	Org. Code	Object Code	Object Description	APPROVED Budget Amount	CURRENT Available Budget	ACCOUNT INCREASE	ACCOUNT DECREASE	REVISED Available Budget
1	10107	52040	SERVICE CONTRACTS & SERVC	49,109	19,235		(1,600)	17,635
2	10107	54060	OFFICE EQUIPMENT	0	0	1,600		1,600
3								0
4								0
5								0
6								0
7								0
8								0
9								0
10								0
								0
								0
				TOTAL		1,600	(1,600)	

Explanation

A CASH COUNTER WILL BE PURCHASED TO CREATE EFFICIENCIES IN COUNTING CASH DEPOSITS - TIME SAVINGS AND ERROR REDUCTION.

THE COUNTER WILL ALSO CHECK FOR COUNTERFEIT CURRENCY.

KIM ALLEN
Department Head

10/18/2023
Date

KIM ALLEN
Director of Finance

10/18/2023
Date

First Selectman

Date

Commission/Board Approval

Date



10/18/2023 08:10
kallen

Town of Waterford, CT
YEAR-TO-DATE BUDGET REPORT

FOR 2024 13

10/18/2023 08:10
kallen

ORIGINAL APPROP	TRANS/ADJSMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	% USED
101 GENERAL FUND						
10107 FINANCE						
51010 ELECTED OFFICIALS						
10107 51010	29,287.00 ELECTED OFFICIALS	29,287.00	7,321.68	0.00	21,965.32	25.0%
51110 ADMINISTRATION						
10107 51110	366,228.00 ADMINISTRATION	366,228.00	95,050.90	0.00	271,177.10	26.0%
51210 CLERICAL AND TECHNICAL						
10107 51210	147,730.00 CLERICAL AND TECHNICAL	147,730.00	35,305.94	0.00	112,424.06	23.9%
51810 OVERTIME						
10107 51810	2,650.00 OVERTIME	2,650.00	27.51	0.00	2,622.49	1.0%
51910 FRINGE BENEFITS						
10107 51910	2,565.00 FRINGE BENEFITS	2,565.00	0.00	0.00	2,565.00	.0%
51920 F.I.C.A.						
10107 51920	41,957.00 F.I.C.A.	41,957.00	9,999.64	0.00	31,957.36	23.8%
52010 ADVERTISING						
10107 52010	200.00 ADVERTISING	200.00	0.00	0.00	200.00	.0%



FOR 2024 13

ORIGINAL APPROP	TRANS/ADJSMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	% USED
52020 POSTAGE						
10107 52020 POSTAGE	0.00	4,000.00	1,223.24	0.00	2,776.76	30.6%
52030 PROFESSIONAL FEES						
10107 52030 PROFESSIONAL FEES	0.00	55,400.00	13,858.92	41,943.57	-402.49	100.7%*
52040 SERVICE CONT AND REPAIRS						
10107 52040 SERVICE CONT. AND REPAIRS	0.00	49,109.00	14,938.77	14,934.79	19,235.44	60.8%
52050 DUES CONFER						
10107 52050 DUES, CONFERENCES & EDUCATION	0.00	11,721.00	2,339.99	0.01	9,381.00	20.0%
52070 REIMBURSABLE EXPENSES						
10107 52070 REIMBURSABLE EXPENSES	0.00	100.00	0.00	0.00	100.00	.0%
52080 TELEPHONE						
10107 52080 TELEPHONE	0.00	16,659.00	4,567.17	11,038.32	1,053.51	93.7%
53010 OFFICE SUPPLIES						
10107 53010 OFFICE SUPPLIES	0.00	20,000.00	9,414.68	10,228.97	356.35	98.2%
54010 FURNITURE						
10107 54010 FURNITURE	0.00	115.00	0.00	0.00	115.00	.0%



10/18/2023 08:10
kallen

Town of Waterford, CT
YEAR-TO-DATE BUDGET REPORT

FOR 2024 13

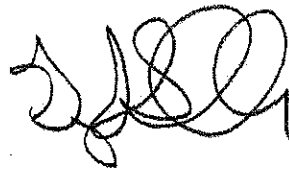
ORIGINAL APPROP	TRANS/ADJSMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	% USED
TOTAL FINANCE 747,721.00	0.00	747,721.00	194,048.44	78,145.66	475,526.90	36.4%
TOTAL GENERAL FUND 747,721.00	0.00	747,721.00	194,048.44	78,145.66	475,526.90	36.4%
TOTAL EXPENSES 747,721.00	0.00	747,721.00	194,048.44	78,145.66	475,526.90	
GRAND TOTAL 747,721.00	0.00	747,721.00	194,048.44	78,145.66	475,526.90	36.4%

** END OF REPORT - Generated by Kimberly Allen **

**Public Works
Department**

Memo

To: Robert Brule, First Selectman
From: Gary J Schneider, Director of Public Works
cc: Kimberly Allen, Finance Director
Date: October 13, 2023
Re: Additional Funding Cohanzie UST



The project to replace the underground gasoline and diesel tanks at Cohanzie Fire Station has been completed with the Investigation Report being issued and forwarded to the DEEP. Even though we have use of the tanks and dispensers, the issue of the petroleum release had to be investigated. Due to the detection of motor fuel during the closure of this site, an investigation was required to determine if this release had contaminated the ground water.

The Investigation Report, attached, states, "based upon the laboratory results and the chromatographic fingerprints, groundwater has not be impacted by either of the petroleum releases detected during the April 2022 UST closures and we therefore conclude that neither release has impacted groundwater and no further action is required."

In order to close out this project, the attached scope of services from the Engineering Firm shows an additional \$11,290 is required. Line Item #33021-55867 should be increased to complete this project.

Public Works requests to be on the next Board of Selectman's agenda and forward to the Board of Finance, if approved.

Attachment (2)



HALEY WARD.

ENGINEERING • ENVIRONMENTAL • EROSION CONTROL

September 25, 2023

Mr. Gary Schneider
Director of Public Works
Town of Waterford
15 Rope Ferry Road
Waterford, CT 06385

Re: Investigation Report | Cohanzie Fire Station | Waterford, CT
CT DEEP Case Number 2022-01829

Dear Mr. Schneider:

Haley Ward, Inc. (Haley Ward) is pleased to provide you with this Investigation Report (the Report) to document the installation and sampling of four groundwater monitoring wells at the Cohanzie Fire Station located at 53 Dayton Road, Waterford, Connecticut (the Site). A Site Plan is attached as Drawing No. S-01.

The purpose of the investigation was to determine whether the release of motor fuel detected during closure soil sampling of the former underground storage tank (UST) systems on April 26, 2022, had contaminated groundwater. Closure assessment activities performed during the removal of two 4,000-gallon motor fuel USTs (containing diesel fuel and gasoline) and their associated dispenser islands revealed petroleum releases in the tank grave (gasoline) and beneath the dispenser island (diesel fuel). Because the dispenser island release exceeded the applicable Remediation Standard Regulation (RSR) criteria, the release was reported to the Connecticut Department of Energy and Environmental Protection (CT DEEP) and was given Case No. 2022-01829.

The results of two rounds of groundwater monitoring are presented herein and they support a conclusion, in accordance with the Connecticut Remediation Standard Regulations (RSRs) that groundwater has not been impacted by either release and that no further action with respect to either release is required.

This report is organized by the following sections:

- Background
- Fieldwork
- Results and Conclusions

City of Waterford | 09.25.2023 | 4010193.20383 | Page 1



2210 Main Street, P.O. Box 1088, Glastonbury, CT 06033
T: 860.659.3100 | HALEYWARD.COM



BACKGROUND

The Cohanzie Fire Station is owned by the Town of Waterford and is located approximately 500 feet (ft.) north of the intersection of Dayton Road and Kenyon Road. According to the *Quaternary Geology Map (2010)*, the Site is underlain by thin fill, which is described as a non-stratified, glacial-laid deposit overlying bedrock, and is typically between 10 and 15 ft. thick. The material observed during the tank removal was a loose sandy fill, consisting primarily of fine-grained sand with some silt and is generally consistent with the map unit description of thin fill. During the UST closure, bedrock and groundwater were not encountered to the depth of the tank grave at approximately 12 ft. below ground surface (bgs).

The Site and the surrounding area are in a GA-classified groundwater area with public water supply distribution system available within 200 ft. of the Site. The Site is located along a north-south trending ridge between Great Hill to the north and Twomile Hill to the south. The topography drops away moderately steeply towards the west, to a small unnamed wetland located between Dayton Road and the Hartford Turnpike. A gradual slope towards the east leads to a large network of wetlands associated with Brandegee Lake. According to the *Natural Drainage Basins Map of Waterford, Connecticut (2011)*, a major basin boundary between the Southeast Coastal basin and the Thames River basin is located trending north/south along the ridge passing through the Site immediately to the east of tank grave.

The results of soil sampling performed for the April 26, 2022, UST closure assessment indicated that CT DEEP reportable releases had occurred from the dispenser island and in the former tank grave (see Drawing S-01 for the site layout). The GA Pollutant Mobility Criteria (GA PMC) and the Residential Direct Exposure Criteria (Res DEC) both apply to these release areas as established in the Connecticut Remediation Standard Regulations (CT RSRs).

- **Dispenser Island Release Area** – Diesel fuel contamination, as extractable total petroleum hydrocarbons (ETPH), was detected at a concentration of 747 mg/kg beneath the western end of the diesel dispenser island. The ETPH detection exceeds both the RES DEC and the GA PMC for ETPH of 500 mg/kg. The release appears to have been minor and may have resulted from drip leaks during routine dispenser filter maintenance. On May 15, 2022, Haley Ward directed the excavation of contaminated soil associated with this release. Soil was excavated to a depth of approximately 4 feet bgs where five excavation limit soil samples were collected. The laboratory report showed that all of the contaminated soil associated with the release exceeding the Res DEC and GA PMC had been removed.
- **Former Tank Grave Release Area** – Benzene was detected at a concentration of 6.3 micrograms per kilogram (ug/kg) in a soil sample collected from beneath the USTs indicating that a minor gasoline release may have occurred within the tank grave. No other compounds were detected in this or any of the other seven



samples collected from the tank grave. The benzene concentration detected was below the Res DEC of 21,000 ug/kg and the GA PMC of 200 ug/kg. Haley Ward concluded that the tank grave samples had delineated the release, and that compliance with the applicable soil criteria established in the CT RSRs at Section 22a-133k-2(b)(1) for the DEC and in Section 22a-133k-2(c)(1)(A) for the PMC had been achieved. No additional soil remediation work was recommended or is required for the tank grave release.

As indicated above, following the excavation activities, both release areas now meet the applicable remediation standards for soil and no additional work is proposed. However, the potential impact of the releases on groundwater beneath the Site needed to be evaluated.

FIELDWORK

On April 11 and 12, 2023, Haley Ward oversaw the installation of four groundwater monitor wells: OW-1 through OW-4. These wells were installed by Sife, LLC of Beacon Falls, Connecticut using a CME 55LCX hollow-stem auger drilling rig. The locations of these wells are shown in Drawing S-01. Boreholes were logged to identify soil stratigraphy and screened for organic vapors using a handheld Rae Systems analyzer equipped with a 10.6 eV photoionization detector lamp (PID). Soil cores recovered from Shelby Tube samples consisted primarily of tan fine to medium sand with some cobbles, trace to little silt, and generally consistent with soil observed during the UST closures. The table below summarizes PID readings, depth to saturated soil, and final monitor well installation depth for each boring. Copies of the boring logs are provided in Attachment A.

BORING/WELL IDENTIFICATION	PID READING AND DEPTH (PARTS PER MILLION)	APPROXIMATE DEPTH TO SATURATED SOIL (FEET BGS)	WELL DEPTH (FEET BGS)
OW-1	0.1 @ 10 FT BGS 0.0 @ 22 FT BGS	20	22
OW-2	0.0 @ 5 FT BGS 0.1 @ 10 FT BGS	15.5	20.5
OW-3	0.0 @ 12 FT BGS	20	23
OW-4	0.2 @ 12 FT BGS 0.2 @ 22 FT BGS	20	23

The monitor well installations consisted of 2-inch diameter PVC pipe with 10-foot long well screens. The wells were finished with flush-mounted traffic-rated well boxes, and they were developed by over pumping immediately following installation using a 12V down-well impeller pump. One soil sample was collected from each boring at the groundwater table interface and submitted to York Analytical Laboratory (York) in Stratford, Connecticut for analyses of volatile organic compounds (VOCs) including fuel oxygenates, extractable total petroleum hydrocarbons (ETPH), and polyaromatic



hydrocarbons (PAHs). There were no detectable concentrations of these compounds in any of the four soil samples. A copy of the laboratory soil report is included with Attachment B.

On May 11 and July 19, 2023, Haley Ward traveled to the Site to collect groundwater samples from the four monitoring wells. Prior to well purging, each of the monitor wells was gauged for depth to non-aqueous phase liquids (LNAPL) and groundwater. No LNAPL was measured in either monitoring event. The depth to groundwater measurements on the two dates varied from 16.5 ft. to 17.5 ft. in May and 19.4 ft. to 21.5 ft. in July. The monitor well groundwater elevation data is depicted in Drawings S-02 and S-03 showing an approximate southwest to west flow direction across the Site. The gauging data suggests that monitor wells OW-2 and OW-3 are approximately upgradient, while monitor wells OW-1 and OW-4 are approximately downgradient of the release areas.

Groundwater samples were collected following low flow purging in accordance with EPA Low Stress (low flow) purging and sampling procedures for the Collection of Groundwater Samples from Monitoring Wells. During the May 2023 monitoring event, groundwater was generally purged at 150 mL/min. or higher causing all the wells to experience large drawdowns. Samples were therefore collected as grab samples as soon as the water levels recovered sufficient to collect the required sample volume. During the second monitoring event in July 2023, monitor wells were purged at or less than 85 mL/min. and therefore purging occurred in accordance with the EPA protocol. Copies of the purge logs for the July 2023 monitoring event are included as Attachment C. Groundwater samples were transported to LEI's warehouse where they were refrigerated and then transmitted under chain-of-custody to York Analytical for the analyses of volatile organic compounds (VOCs) including fuel oxygenates, ETPH, and PAHs.

RESULTS AND CONCLUSIONS

Applicable groundwater criteria for the Site are the Groundwater Protection Criteria (GWPC), the Surface Water Protection Criteria (SWPC), and the residential volatilization criteria (RES VOL) as allowed by the conditions provided under the CT RSRs at Section 22a-133k-3(d)(1)(A). Because the groundwater table is more than 10 ft. below grade, the volatilization criteria for volatile petroleum hydrocarbons does not apply.

All four samples collected during both monitoring rounds were non-detect for the vast majority of analytes except for acetone, naphthalene, and ETPH. Acetone was detected in well OW-3 (May 2023) at a concentration of 4.97 parts per billion (ug/L) while naphthalene was detected in well OW-1 (July 2023) at a concentration of 0.130 ug/L. Both compounds were detected at concentrations that are significantly below their applicable groundwater criteria. In fact, acetone is often detected in groundwater samples because it is a common laboratory solvent. Based upon the mapped groundwater flow direction, monitor well OW-1 is side-gradient (north) of both motor fuel release areas and is down-gradient of well OW-2 which was non-detect for naphthalene



(ND<0.05 ug/L) in both events. The trace concentration of naphthalene detected in well OW-1 appears to us to be incidental motor vehicle drip releases of oil and grease to the parking lot followed by infiltration to the groundwater table. The RSRs provide for a condition exemption for this type of release and Haley Ward believes that it should apply in this situation.

ETPH was detected during the May 2023 event in monitor wells OW-2 (0.279 mg/L), OW-3 (0.275 mg/L), and OW-4 (0.222 mg/L). The GWPC and SWPC for ETPH are both 0.250 mg/L and the samples collected from wells OW-3 and OW-4 exceed the criterion.

A review of the ETPH analyses for the two monitoring events shows that all the chromatographic fingerprints from the May 2023 monitoring event are similar. In each of the samples, including OW-1 which was reported as non-detect, the chromatograms show regularly spaced individual peaks that are similar to the pattern of peaks for the saturated hydrocarbons (straight chain paraffins or alkanes) used in the laboratory control and timing standards. Haley Ward discussed the laboratory results and chromatograms with York's Laboratory Director, and we were assured that the mass under the peaks was the concentration reported and that there had not been any QA/QC issues surrounding the analyses.

Because Haley Ward had very recently purchased a few rolls of test tubing from a new tubing supplier, a decision was made to collect an equipment blank by running distilled water through the recently purchased tubing. The distilled water sample was then submitted to York for analysis of ETPH. This sample was non-detect (ND<0.220 mg/L) and the chromatogram did not exhibit any of the unusual peaks other than a single peak at about 19.5 minutes into the chromatogram. A copy of the tubing blank is included as Attachment D. During the second monitoring event in July 2023, three of the four ETPH analyses were non-detect while the concentration in well OW-3 was 0.220 mg/L which is below the GWPC and the SWPC. Copies of the laboratory reports for both monitoring events are included in Attachment E.

Based upon the laboratory results, Haley Ward concludes the following.

1. The only VOC detected were acetone (OW-3 at 4.97 ug/L in May 2023) and the only PAH detected was naphthalene (OW-1 at 0.13 ug/L in July 2023). Monitor well OW-3 is at least 30 ft. up-gradient of the UST system hydrocarbon release areas. Monitor well OW-1 is about 40-50 ft. side-gradient (north) of the UST grave release area. The trace concentrations detected in these monitor wells cannot be associated with the motor fuel releases detected in the former tank grave or beneath the diesel dispenser since acetone is not present in gasoline or diesel fuel and both locations are not down-gradient of the release areas.
2. ETPH was detected in monitor wells OW-2 (0.279 mg/L), OW-3 (0.275 mg/L), and OW-4 (0.222 mg/L). The chromatographic fingerprints from those analyses do not exhibit a motor fuel signature from either gasoline or distillate range hydrocarbons. The fingerprints show a distinct pattern of individual, regularly spaced saturated



alkanes. The monitor wells with the highest ETPH concentrations (OW-2 and OW-3) are up-gradient of the UST system release areas while OW-4 is down-gradient. The concentration of ETPH in OW-4 is below the GWPC and the SWPC.

3. The source of the ETPH groundwater contamination is unknown. However, based upon the chromatograms, it is not related to the gasoline and diesel fuel releases detected in the former tank grave or beneath the diesel dispenser.
4. Based upon the laboratory results and the chromatographic fingerprints, groundwater has not been impacted by either of the petroleum releases detected during the April 2022 UST system closures and we therefore conclude that neither release has impacted groundwater and no further action is required.

If you have any questions concerning the information presented in this report or if additional services are needed, please contact Mark Lovejoy at (978) 786-9709. We appreciate this opportunity to be of service to you.

Sincerely,
Haley Ward, Inc.

Mark R. Temple, LEP
Vice President

Mark Lovejoy, PE, LSP, LEP, CHMM
Senior Project Manager

MAL/MRT
Attachments

HALEY WARD[®]
ENGINEERING | ENVIRONMENTAL | SURVEYING

October 5, 2023

Mr. Gary Schneider
Director of Public Works
Town of Waterford
15 Rope Ferry Road
Waterford, CT 06385

RE: *Proposal for Professional Services, Conduct Additional Environmental Investigations, Sampling and DEEP Reporting, Cohanzie Fire House, Dayton Place, Waterford, CT*

Dear Mr. Schneider:

As requested, Haley Ward, Inc. (Haley Ward) is pleased to submit this proposal for your review and acceptance. As a result of additional contamination found during the underground tank removal process, Haley Ward conducted additional rounds of monitoring well sampling, and created a new Investigation Report for submittal to the DEEP.

SCOPE OF SERVICES

- 1) Provided Additional Well Drilling Supervision
- 2) Conduct two rounds of water quality sampling at the four on-site monitor wells.
- 3) Complete field survey and mapping of monitoring well network. Create groundwater flow direction mapping.
- 4) Evaluate results and write new contamination report detailing historic groundwater contamination found on site.
- 5) Submitting electronic copy of Investigation Report to DEEP.

PROPOSED FEES

Work was completed in accordance with the rates given in our current on-call contract.

Haley Ward Labor	\$ 9,600
<u>Laboratory Analyses</u>	<u>\$ 2,626</u>
TOTAL FEE	\$ 12,226

Gary Schneider | 10-5-23 | JN | Page 1



2210 Main Street, P.O. Box 1088, Glastonbury, CT 06033
T: 860.659.3100 | HALEYWARD.COM



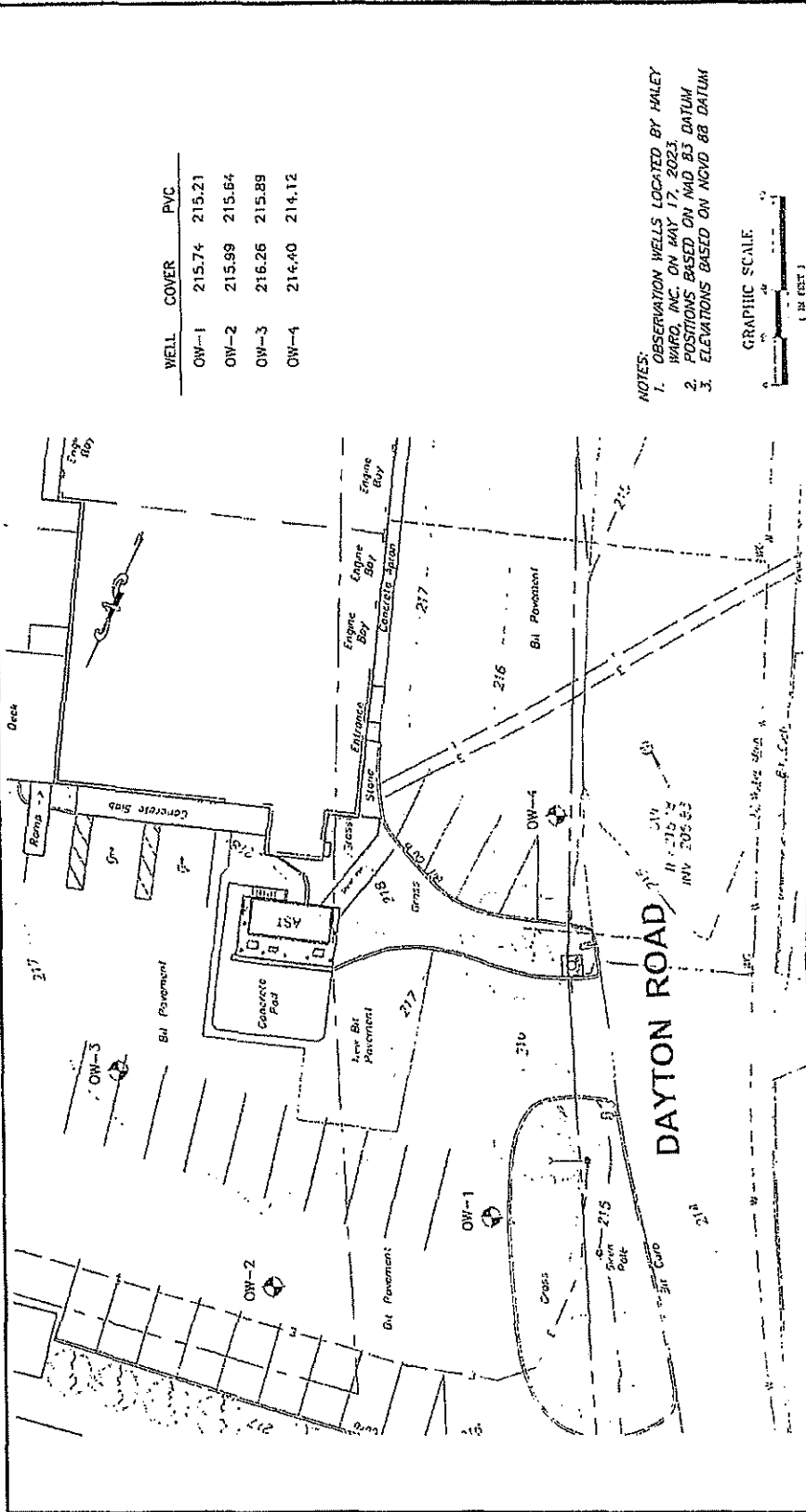
We hope the Town finds our proposal acceptable, and we look forward to continuing to serve Waterford on this project. If you or others at the Town have any questions or comments, I am at your service.

Respectfully submitted,
Hailey Ward, Inc.

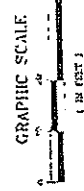
James E. Ericson, PE
Regional Manager / Vice President



DRAWINGS

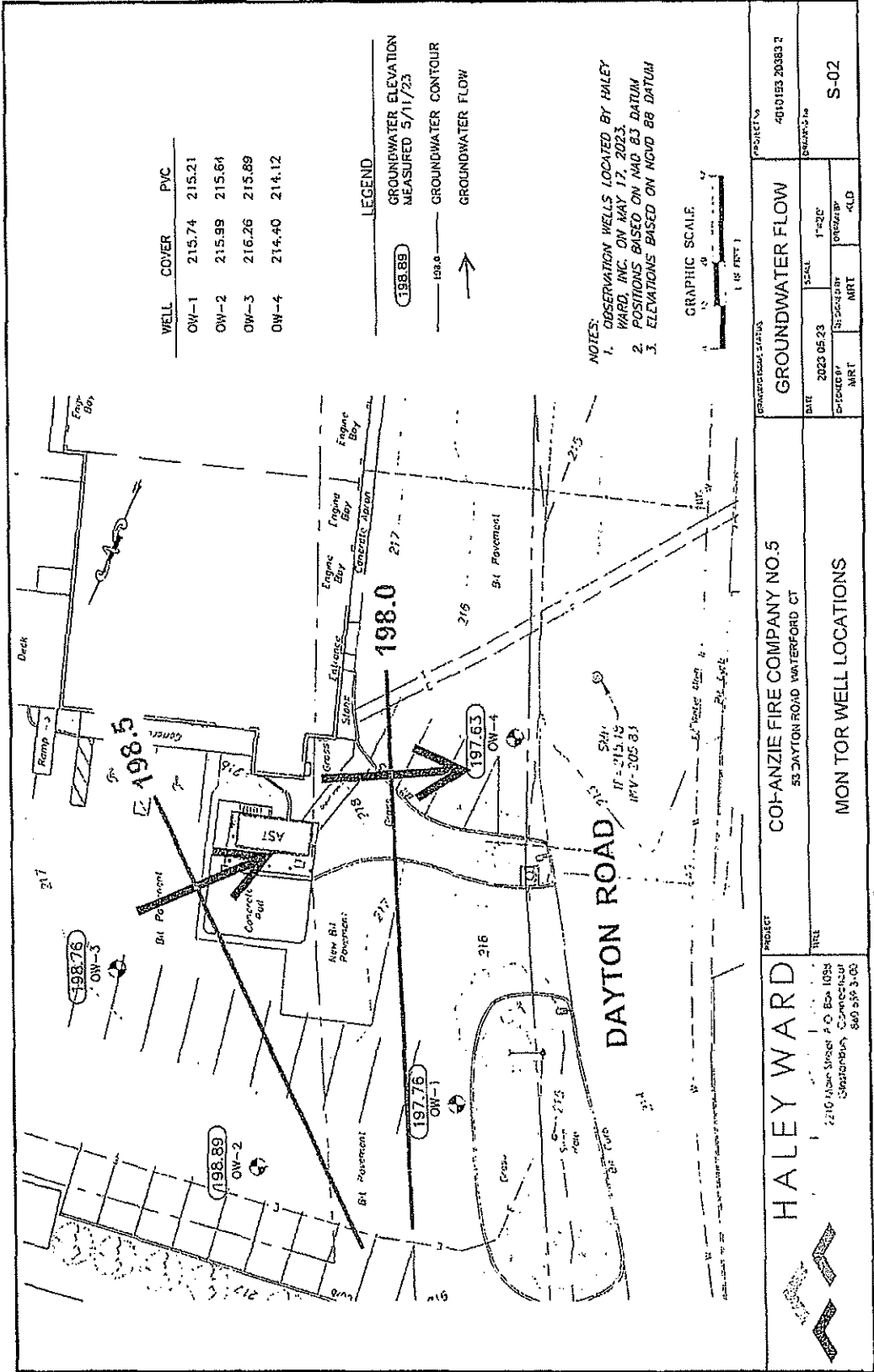


NOTES:
 1. OBSERVATION WELLS LOCATED BY HALEY WARD, INC. ON MAY 17, 2023.
 2. POSITIONS BASED ON NAD 83 DATUM
 3. ELEVATIONS BASED ON NCVD 88 DATUM



HALEY WARD 2210 Main Street Cheshire, CT 06024 Phone: 860.539.1144	PROJECT	COHANZIE FIRE COMPANY NO.5 53 DAYTON ROAD WATERFORD, CT	SOURCE/SCALE STATUS	4010193 20083 2
	DATE	2023 05 18	SCALE	1"=50'
	DESIGNED BY	MRT	DRAWN BY	KLO
				S-01

MONITOR WELL LOCATIONS

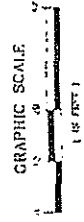


WELL	COVER	PVC
OW-1	215.74	215.21
OW-2	215.99	215.64
OW-3	216.26	215.89
OW-4	214.40	214.12

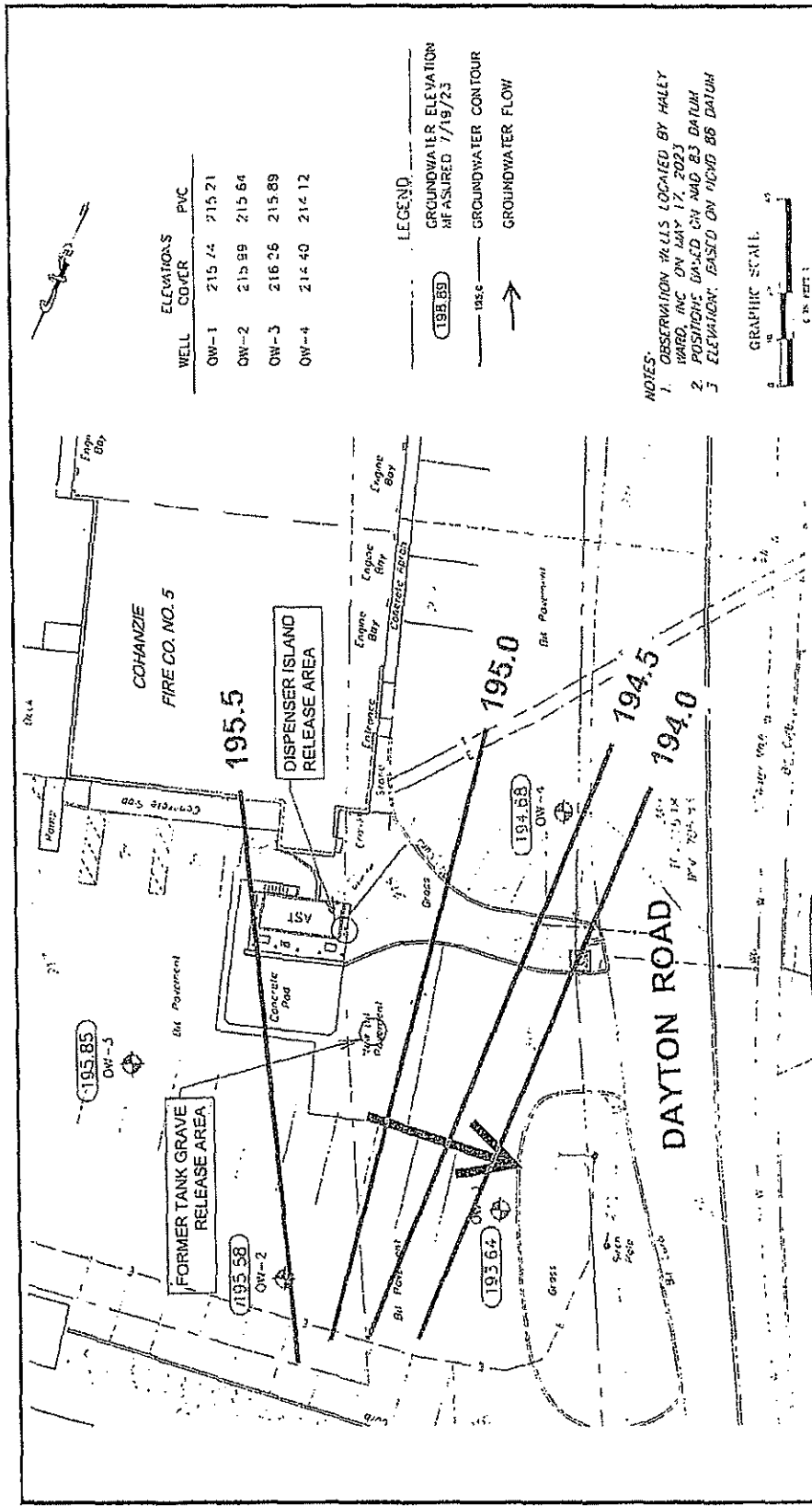
- LEGEND**
- 198.89 GROUNDWATER ELEVATION MEASURED 5/1/23
 - 198.0 GROUNDWATER CONTOUR
 - GROUNDWATER FLOW

NOTES:

- OBSERVATION WELLS LOCATED BY HALEY WARD, INC. ON MAY 17, 2023.
- POSITIONS BASED ON NAD 83 DATUM
- ELEVATIONS BASED ON NGVD 88 DATUM



		PROJECT CO-ANZIE FIRE COMPANY NO. 5 53 DAYTON ROAD WATERFORD CT		PROJECT NO. 4010153 20383 2	
DATE 2023 05 23		SCALE 1"=20'		CONTRACT NO. S-02	
DESIGNED BY MRT		CHECKED BY MRT		DATE 2023 05 23	
PROJECT MON TOR WELL LOCATIONS		WELL OW-1, OW-2, OW-3, OW-4		CONTRACTOR HALEY WARD, INC. 2210 Main Street P.O. Box 1058 Waterford, Connecticut 06186-0105 860.559.3100	



 HALEY WARD 2210 NORTH WILSON ST. - SUITE 100 GASTONIA, NC 28053 803.761.1234	PROJECT		COHANZIE FIRE COMPANY NO.5 53 DAYTON ROAD WATERFORD, CT		PROPOSED STATUS		PROJECT NO. 4010193 20383.2		
	DATE		MONITOR WELL LOCATIONS		GROUNDWATER FLOW		PROJECT NO. S-03		
	2023.08.11		SCALE 1"=200'		CHECKED BY MRT		DESIGNED BY MRT		

HALEY WARD
2210 North Street
Glastonbury, CT 06033
860.333.1111
www.haleyward.com

#7

CERTIFICATE OF ADOPTION
TOWN OF WATERFORD BOARD OF SELECTMEN

A RESOLUTION ADOPTING THE HAZARD MITIGATION AND CLIMATE ADAPTATION PLAN UPDATE, 2023-2028

WHEREAS, the Town of Waterford has historically experienced severe damage from natural hazards and it continues to be vulnerable to the effects of those natural hazards profiled in the plan (e.g. flooding, extreme heat, droughts, severe storms such as thunderstorms and winter storms, dam failures, wildfires, and earthquakes) resulting in loss of property and life, economic hardship, and threats to public health and safety; and

WHEREAS, the Waterford Board of Selectmen approved the previous versions of the Hazard Mitigation Plan in 2005, 2012, and 2018; and

WHEREAS, Southeastern Connecticut Council of Governments, of whom the Town of Waterford is a member, has determined that climate change is affecting the frequency and severity of some hazards and therefore elected to expand the Hazard Mitigation Plan Update to become a Hazard Mitigation and Climate Adaptation Plan Update; and

WHEREAS, committee meetings were held and public input was sought in 2022 regarding the development and review of the Hazard Mitigation and Climate Adaptation Plan Update; and

WHEREAS, the Plan specifically addresses hazard mitigation and climate adaptation strategies and Plan maintenance procedures for the Town of Waterford; and

WHEREAS, the Plan recommends several hazard mitigation actions that will provide mitigation for specific natural hazards that impact the Town of Waterford, with the effect of protecting people and property from loss associated with those hazards while adapting to the effects of climate change; and

WHEREAS, Southeastern Connecticut Council of Governments has developed and received conditional approval from the Federal Emergency Management Agency (FEMA) for its Hazard Mitigation and Climate Adaptation Plan Update under the requirements of 44 CFR 201.6; and

WHEREAS, adoption of this Plan will make the Town of Waterford eligible for funding to alleviate the impacts of future hazards; now therefore be it

RESOLVED by the Board of Selectmen:

1. *The Plan is hereby adopted as an official plan of the Town of Waterford;*
2. The respective officials identified in the mitigation strategy of the Plan are hereby directed to pursue implementation of the recommended actions assigned to them;
3. Future revisions and Plan maintenance required by 44 CFR 201.6 and FEMA are hereby adopted as a part of this resolution for a period of five (5) years from the date of this resolution.
4. An annual report on the progress of the implementation elements of the Plan shall be presented to the Board of Selectmen.

Adopted this _____ day of _____, 2023 by the Board of Selectmen of Waterford, Connecticut

First Selectman

IN WITNESS WHEREOF, the undersigned has affixed his/her signature and the corporate seal of the Town of Waterford this _____ day of _____, 2023.

Town Clerk

TOWN OF WATERFORD ANNEX DOCUMENT

Southeastern Connecticut Council of Governments
Multi-Jurisdictional Hazard Mitigation and Climate Adaptation Plan Update

March 2023



PREPARED FOR:
Town of Waterford
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1. Introduction

1.1. Purpose of Annex

The planning process for the multi-jurisdiction hazard mitigation plan (HMP) update commenced in April 2022 and ended in December 2022, spanning a period of nine months. The planning process included 24 jurisdictions (22 municipalities and two tribal governments) with two participating together (Griswold and Jewett City) for a net total of 23 local planning teams represented. For this 4th edition of the plan, Southeastern Connecticut Council of Governments (SCCOG) elected to link the planning process to a parallel planning process administered by the Connecticut Institute for Resilience and Climate Adaptation (CIRCA) that is known as “Resilient Connecticut 2.0” (stylized as *Resilient Connecticut*). The *Resilient Connecticut* program is described on CIRCA’s web site at <https://resilientconnecticut.uconn.edu/> and the expansion of the program into southeastern Connecticut is described at <https://circa.uconn.edu/2022/02/23/resilient-connecticut-expands-statewide/>.

The linkage of the two planning processes was advantageous for the following reasons:

- Incorporation of climate change into the hazard mitigation plan update
- Increased interest from the local communities, especially for those interested in developing climate adaptation strategies.
- Direct incorporation of climate change vulnerability products developed by CIRCA including the Climate Change Vulnerability Index (CCVI) for flood and extreme heat vulnerabilities.
- Direct incorporation of combined sea level rise and coastal flood inundation simulations from CIRCA
- Positioning of the SCCOG jurisdictions for new funding sources in Connecticut such as the new *Department of Energy and Environmental Protection (DEEP) Climate Resilience Fund (DCRF)*
- Consistency with the Governor’s Council for Climate Change (GC3) outcomes from the 2020-2021 planning process
- Positioning of the actions for incorporation on the State’s “resilience project pipeline” per Executive Order (EO) 21-3 issued at the end of 2021.

The planning process commenced for the local communities on April 20, 2022, with a presentation to the SCCOG Board. During this presentation, the consultant and CIRCA described the planning process and the approach for incorporating the *Resilient Connecticut* program into the hazard mitigation plan update, and notified the chief elected officials that invitations to local planning meetings would follow at the end of April. Local planning team meetings commenced on May 23, 2022, and ended on July 8, 2022. Workshops with local coordinators were conducted in July and September 2022, and supplemental meetings with water utilities in the region and specific stakeholders continued through November 2022.

The purpose of this HMP annex is to provide an update to the hazard risk assessment and capability assessment provided in the previous HMP, and to evaluate potential hazard mitigation measures and prioritize hazard mitigation projects specific to mitigating the effects of hazards on the Town of Waterford. Background information and the regional effects of pertinent hazards are discussed in the main body of the Southeastern Connecticut Council of Governments (SCCOG) Multi-Jurisdictional Hazard

Mitigation and Climate Adaptation Plan (HMCAP). Thus, this annex is designed to supplement the information presented in the Multi-Jurisdictional HMCAP with more specific details for Waterford and is not to be considered a standalone document.

1.2. Hazard Mitigation and Climate Adaptation Goals

The primary goal of the previous hazard mitigation plans adopted in 2013 and 2018 was to identify risks to hazards and potential mitigation measures for such hazards in order to **reduce the loss of or damage to life, property, infrastructure, and natural, cultural, and economic resources**. This included the reduction of public and private damage costs. Limiting losses of and damage to life and property was also meant to reduce the social, emotional, and economic disruption associated with a natural disaster.

Coinciding with the incorporation of climate adaptation and the alignment of this HMCAP with the *Resilient Connecticut* planning process administered by CIRCA, the five goals of this HMCAP are:

- Ensure that critical facilities are resilient, with special attention to shelters and cooling centers.
- Address risks associated with extreme heat events, especially as they interact with other hazards.
- Reduce flood and erosion risks by reducing vulnerabilities and consequences, even as climate change increases frequency and severity of floods.
- Reduce losses from other hazards.
- Invest in resilient corridors to ensure that people and services are accessible during floods and that development along corridors is resilient over the long term.

8. Mitigation Strategies and Actions

8.1. Status of Mitigation Strategies and Actions

A total of 22 hazard mitigation actions were developed in the previous edition of this plan. The status of each is listed below.

Table 8-1 Status of 2016 to 2021 Hazard Mitigation Actions

#	Mitigation Actions and Strategies for Waterford 2016 - 2021	Status	Status Details
1	Acquire and install evacuation signs in coastal flood hazard areas	Carry Forward	Evacuation signs have not been added. The population in Waterford is relatively senior, so signs might still be useful. This action can remain but should be made more specific.
2	Continue to make evacuation routes in the Gardiners Wood Road area more resilient through elevation, culvert upgrades, etc.	Carry Forward with Revisions	The town does not own the land underneath the road but has an easement. The road will be resurfaced, will be able to be raised about 6-8 inches in the process. Pipes will be placed under the road at a low point, and the road will be elevated about one foot in this location. The full design is complete, but the funding is not yet there – estimate \$4 million. The low point of the railroad bridge is a concern too. This is still a high priority; a neighborhood is cut off when this road floods. This might fit well with <i>Resilient Connecticut</i> . Revise to indicate the progress and make the action geared toward remaining tasks.
3	Consider installing an emergency egress between Laurel Crest Drive and Miner Lane.	Remove	No progress. Not a priority, due to the very low residential population along this road.
4	In lieu of installing an emergency egress between Laurel Crest Drive and Miner Lane, determine other options for emergency evacuation and egress from southern Miner Lane.	Remove	No progress. Not a priority, due to the very low residential population along this road.
5	Ensure relevant personnel know where the EOP is kept and are able to access it.	Complete	Document is available in several locations.
6	Consider potential need for a gradual phasing in of new policies related to SLR	Carry Forward	Funding to implement floodproofing in private homes has been a challenge, and the substantial improvement lookback was recently changed downward to two years which will not drive flood mitigation. A 2-ft freeboard has not been put into place. The Town would like an aspirational statement for this action.
7	Incorporate the results of the Coastal Resilience project into the next HMP update	Carry Forward with Revisions	This current HMP update will help make progress with this action. However, Town attendees explained that board and commission support is reportedly not strong for incorporating many recommendations from the coastal resilience planning effort. The Planning Commission is concerned that some of the strategies in the plan will make it harder for property owners to maintain their properties.

			The revision to this action could rephrase this action to "evaluate" coastal resiliency recommendations or include actions that are achievable. A recommendation that may come from the POCD is to include this responsibility under another board or commission.
8	Pursue enrollment in the Community Rating System	Remove	Remove - The town decided not to pursue this due to lack of capacity relative to minimal community benefits.
9	Ensure that sewer pumping stations have a method for connecting emergency power and are adequately floodproofed	Carry Forward with Revisions	The responsible department for this action is Utilities, not Public Works. The challenge is that the sewer pumping stations are located in low points. Some of the facilities have been floodproofed, and some of the electric systems inside have been elevated. There is more work to do. The Mago and Bolles facilities are reportedly the next on the list; check the SCCOG wastewater management plan and the Wright-Pierce resilience study for details.
10	Include structures within the 1% annual chance floodplain and storm surge areas within the Reverse 9-1-1 contact database	Complete	The town now uses Everbridge. Every listed landline (business and private) is in the system, and the town makes it clear on social media how people can sign up other devices.
11	Pursue the acquisition and demolition of floodprone properties with conversion to open space, prioritizing repetitive loss properties	Carry Forward with Revisions	The town typically does not acquire RL properties. There are no future specific acquisitions in mind, but if there was another future storm event that resulted in the town wanting to acquire a property then the town would want the option. Revise the action to focus on acquiring damaged properties.
12	Upgrade stormwater collection and discharge systems to keep up with rising sea level	Carry Forward with Revisions	The Ridgewood system along Alewife Cove is a concern but upgrades probably will not occur in the near future. The town does not want to lose sight of this goal.
13	Replace culverts along Gardiners Wood Road and elevate sections of the road	Remove	This is a variation of the previous Gardiner Wood action (#2).
14	Replace culvert and/or elevate a section of Braman Road	Carry Forward with Revisions	This was resurfaced (added a few inches) and the pipe was cleaned although not replaced and additional improvements are still desired/necessary. The Great Neck area can be cut off if this road floods.
15	Replace culverts and/or elevate sections of Niles Hill Road at Fenger Brook	Carry Forward	No progress.
16	Raise and improve hydraulics of the secondary access to Millstone Station	Carry Forward with Revisions	Revise to be more achievable - This issue was also identified in the coastal resiliency plan. There has been talk about restoring the pond that the culvert serves and restoring some tidal flow. DEEP has been interested in possibly constructing a fishway. The main obstacle here is the private (and unclear) ownership of the road, which is further complicated by Dominion's involvement.

17	Send out an annual flood-hazard mailer to homeowners.	Carry Forward with Revisions	Mailers have not been sent out. The town suggests incorporating an <i>online option for all</i> town residents and then a <i>targeted</i> mailing for residents in 500 year+ flood zones. It would be helpful to put out a notice before hurricane season. Keep this action but revise to be more specific. FEMA has brochures that towns can use.
18	Determine if any at-risk structures that are not yet eligible for historic designation will be eligible in the future. This may take the form of a historic resources survey.	Carry Forward with Revisions	No progress. There are a number of historic structures identified by SHPO in Waterford. One new historic district (Oil Mill) was designated a few months ago. Individual new historic structures have not been designated. The Town has concerns about wind loading at O'Neill Theatre.
19	Consider drafting a written plan for inspecting and prioritizing the removal of snow from Town-owned structures	Complete	Complete and capability.
20	Prioritize snow removal from municipal buildings.	Complete	Complete and capability.
21	Include dam failure inundation areas in the Reverse 9-1-1 contact database	Complete	Complete - If the Miller Pond dam failed, many houses would be underwater. This area can be identified in the Everbridge system for targeted communications by delineating a polygon for the notification area. The dam EAP and Town LEOP are currently being administered with these targeted procedures.
22	Work with CT DEEP to ensure that the owners of high hazard dams have current EOPs and keep local copies	Complete	Complete. EAPs are on file.

During the planning process, CIRCA and consultant staff facilitated a discussion with the Town staff to identify the greatest climate change concerns and challenges. The previous actions were re-evaluated in this context. Elements of 12 prior actions have been carried forward into the new hazard mitigation and climate adaptation actions.

8.2. Prioritization of Specific Actions

The proposed actions for the Town of Waterford to undertake from 2023 through 2028 are listed in Table 8-2 on the next page. The full list of actions for the region with buildups for the PERSISTS and STAPLEE scores are available in the multi-jurisdiction document.

The actions with the highest PERSISTS score and the highest STAPLEE score are different, which is consistent with the intent of the two scores. PERSISTS scores tend to be higher for actions that maximize public safety while advancing climate science and being transferable to other communities, whereas STAPLEE scores tend to be higher for actions that are highly cost effective and technically feasible for reducing losses from hazards. The actions with the highest combined scores are:

- Establish a process for the phasing-in of new policies related to sea level rise (freeboard, infrastructure retrofits, road elevations, etc.). The process could include incorporation of additional goal statements into the POCD (2023) and capital improvement plans.

The Town intends to focus on the above actions, along with the sole action about cooling centers:

- Ensure that the cooling center (Community Center) has appropriate standby power to operate AC and is accessible using transit or alternate transportation options.
- Identify at least one secondary cooling center in a more accessible, centrally located position; ensure that it has appropriate standby power to operate AC and is accessible using transit or alternate transportation options.

This is consistent with the State's emphasis on cooling center resilience.

Table 8-2 Town of Waterford Actions and STAPLEE and PERSISTS Scores

Number	Hazard Mitigation and Climate Adaptation Actions	Hazard Mitigation and Climate Adaptation Goal	Type of Action	Responsible Department	Approx. Cost Range	Potential Funding Sources	Timeframe	Priority	PERSISTS Score	STAPLEE Score	PERSISTS x STAPLEE =
WF1	Ensure that the cooling center (Community Center) has appropriate standby power to operate AC and is accessible using transit or alternate transportation options.	Ensure that critical facilities are resilient, with special attention to shelters and cooling centers.	Preparedness & Emergency Response	Office of the Chief Elected Official	\$100,000 - \$500,000	FEMA HMA; Other preparedness grants; STEAP	7/2023 - 6/2025	High	16	6	96
WF2	Identify at least one secondary cooling center in a more accessible, centrally located position; ensure that it has appropriate standby power to operate AC and is accessible using transit or alternate transportation options.	Ensure that critical facilities are resilient, with special attention to shelters and cooling centers.	Preparedness & Emergency Response	Office of the Chief Elected Official	\$100,000 - \$500,000	FEMA HMA; Other preparedness grants; STEAP	7/2023 - 6/2025	High	16	6	96
WF3	Maintain at least one school as a backup local shelter for situations when the regional shelter in East Lyme cannot be accessed.	Ensure that critical facilities are resilient, with special attention to shelters and cooling centers.	Preparedness & Emergency Response	Office of the Chief Elected Official	\$100,000 - \$500,000	FEMA HMA; Other preparedness grants; STEAP	7/2023 - 6/2025	Medium	16	6	96
WF4	Ensure that goals and objectives related to resilience are consistently structured between the Climate Change Risk Assessment and Adaptation Study (2017), the POCD (2023), and this HMCAP.	More than one goal	More than one category	Planning	\$0 - \$10,000	Municipal Operating Budget	7/2023 - 6/2024	High	15	5	75
WF5	Establish a process for the phasing-in of new policies related to sea level rise (freeboard, infrastructure retrofits, road elevations, etc.). The process could include incorporation of additional goal statements into the POCD (2023) and capital improvement plans.	Reduce flood and erosion risks by reducing vulnerabilities and consequences, even as climate change increases frequency and severity of floods.	Prevention	Planning	\$0 - \$10,000	Municipal Operating Budget	7/2023 - 6/2024	High	17	10	170

Number	Hazard Mitigation and Climate Adaptation Actions	Hazard Mitigation and Climate Adaptation Goal	Type of Action	Responsible Department	Approx. Cost Range	Potential Funding Sources	Timeframe	Priority	PERISTS Score	STAPLEE Score	PERISTS x STAPLEE =
WF6	Implement and construct roadway resilience design along Gardiners Wood Road including road elevation, resurfacing, and culvert/pipe installations to mitigate flood risks along this single egress route.	Invest in resilient corridors to ensure that people and services are accessible during floods and that development along corridors is resilient over the long term.	Structural Projects	Public Works	>\$1M	LOT/CIP, STEAP; DEEP Climate Resilience Fund	7/2023 - 6/2024	Medium	19	6	114
WF7	Acquire and install evacuation signs in coastal flood hazard areas.	Reduce flood and erosion risks by reducing vulnerabilities and consequences, even as climate change increases frequency and severity of floods.	Preparedness & Emergency Response	Emergency Management	\$10,000 - \$25,000	Municipal CIP Budget	7/2023 - 6/2025	Medium	13	7	91
WF8	Ensure that sewer pumping stations have a method for connecting emergency power and are adequately floodproofed with specific focus on those particularly vulnerable, such as Mago and Bolles, as identified in the SCCOG Wastewater Management Plan and the Coastal Resilience Plan.	Reduce flood and erosion risks by reducing vulnerabilities and consequences, even as climate change increases frequency and severity of floods.	Water & Wastewater Utility Projects	Water & Sewer	\$100,000 - \$500,000	CWSRF, FEMA HMA	7/2024 - 6/2027	High	17	8	136
WF9	Pursue the acquisition and demolition of flood damaged properties with conversion to open space, prioritizing repetitive loss properties that have been severely damaged.	Reduce flood and erosion risks by reducing vulnerabilities and consequences, even as climate change increases frequency and severity of floods.	Natural Resources Protection	Floodplain Manager	>\$1M	FEMA HMA	7/2023 - 6/2028	Medium	15	6	90
WF10	Upgrade stormwater collection and discharge systems to keep up with rising sea level, with particular focus on areas of concern including the Ridgewood system in Alewife Cove.	Reduce flood and erosion risks by reducing vulnerabilities and consequences, even as climate change increases frequency and severity of floods.	Structural Projects	Public Works	\$500,000 - \$1M	Municipal CIP Budget; Stormwater Utility Fees (if implemented)	7/2024 - 6/2027	Medium	18	6	108

Number	Hazard Mitigation and Climate Adaptation Actions	Hazard Mitigation and Climate Adaptation Goal	Type of Action	Responsible Department	Approx. Cost Range	Potential Funding Sources	Timeframe	Priority	PERISTS Score	STAPLEE Score	PERISTS x STAPLEE =
WF11	Identify needs and funding sources for roadway and infrastructure improvements needed to reduce isolation risk in certain areas including Quaker Hill, West Neck, Great Neck, and Gardiners Wood. This action should result in a written report or statement prior to the update of this HMCAP in 2027-2028.	Invest in resilient corridors to ensure that people and services are accessible during floods and that development along corridors is resilient over the long term.	Structural Projects	Public Works	\$10,000 - \$25,000	LOTICP; STEAP; DEEP Climate Resilience Fund	7/2024 - 6/2027	Medium	19	7	133
WF12	Increase capacity and implement additional improvements along Braman Road to reduce the risk of the road being cut off by flooding and eliminating egress for the Great Neck area.	Invest in resilient corridors to ensure that people and services are accessible during floods and that development along corridors is resilient over the long term.	Structural Projects	Public Works	\$500,000 - \$1M	LOTICP; STEAP; DEEP Climate Resilience Fund	7/2024 - 6/2026	Medium	15	5	75
WF13	Replace culverts and/or elevate sections of Niles Hill Road at Fenger Brook.	Invest in resilient corridors to ensure that people and services are accessible during floods and that development along corridors is resilient over the long term.	Structural Projects	Public Works	\$500,000 - \$1M	LOTICP; STEAP; DEEP Climate Resilience Fund	7/2024 - 6/2026	Medium	15	6	90
WF14	Partner with CT DEEP and Dominion to identify a solution to improve secondary access to Millstone Station with possible solutions including pond restoration to improve tidal flow, construction of a fishway, and road elevation.	Invest in resilient corridors to ensure that people and services are accessible during floods and that development along corridors is resilient over the long term.	Structural Projects	Office of the Chief Elected Official	\$25,000 - \$50,000	Dominion Funds; NOAA/NPWF; LISFF	7/2025 - 6/2028	Medium	19	4	76
WF15	Partner with CIRCA and CT DEEP to identify solutions for areas experiencing high erosion rates along the shore and Niantic River.	Reduce flood and erosion risks by reducing vulnerabilities and consequences, even as climate change increases	Structural Projects	Office of the Chief Elected Official	\$25,000 - \$50,000	CIRCA Resources	7/2025 - 6/2028	Medium	18	5	90

Number	Hazard Mitigation and Climate Adaptation Actions	Hazard Mitigation and Climate Adaptation Goal	Type of Action	Responsible Department	Approx. Cost Range	Potential Funding Sources	Timeframe	Priority	PERISTS Score	STAPLEE Score	PERISTS x STAPLEE =
		frequency and severity of floods.									
WF16	Send out flood and storm related information to all town residents via email/electronically, and a similar message via mail to residents in flood zones, including the 0.2% annual chance flood hazard area. An annual frequency is ideal.	Reduce flood and erosion risks by reducing vulnerabilities and consequences, even as climate change increases frequency and severity of floods.	Education & Awareness	Emergency Management	\$0 - \$10,000	Municipal Operating Budget	1/2024 and annually during this month	Medium	14	5	70
WF17	Develop locally-adopted recommendations resulting from the stormwater authority and utility feasibility study conducted by CDM Smith for SCCOG in 2022 using CIRCA's municipal resilience grant.	Reduce flood and erosion risks by reducing vulnerabilities and consequences, even as climate change increases frequency and severity of floods.	More than one category	Office of the Chief Elected Official	\$0 - \$10,000	SCCOG Special Projects; DEEP Climate Resilience Fund; CIRCA Resilient Connecticut	7/2023 - 6/2025	High	18	8	144
WF18	Determine if any structures at risk (to flooding and severe storms) that are not yet eligible for historic designation will be eligible in the future. This may take the form of a historic resources survey.	Reduce flood and erosion risks by reducing vulnerabilities and consequences, even as climate change increases frequency and severity of floods.	Property Protection	Planning	\$10,000 - \$25,000	SHPO	7/2024 - 6/2026	Low	15	5	75
WF19	Work with CT DEEP to update the list of repetitive loss properties and ensure that errors and updates are incorporated by FEMA.	Reduce flood and erosion risks by reducing vulnerabilities and consequences, even as climate change increases frequency and severity of floods.	Property Protection	Floodplain Manager	\$0 - \$10,000	Municipal Operating Budget	7/2023 - 12/2023	High	12	6	72
WF20	Conduct direct outreach to property owners in repetitive loss areas with information about how to mitigation flood losses.	Reduce flood and erosion risks by reducing vulnerabilities and consequences, even as climate change increases frequency and severity of floods.	Property Protection	Floodplain Manager	\$0 - \$10,000	Municipal Operating Budget	1/2024 and annually during this month	High	13	4	52

Number	Hazard Mitigation and Climate Adaptation Actions	Hazard Mitigation and Climate Adaptation Goal	Type of Action	Responsible Department	Approx. Cost Range	Potential Funding Sources	Timeframe	Priority	PERSISTS Score	STAPLEE Score	PERSISTS x STAPLEE =
WF21	Require floodplain manager and land use staff to take free training at https://portal.ct.gov/DEEP/P2/Chemical-Management-and-Climatic-Resilience/Chemical-Management-and-Climatic-Resilience to reduce risks of spills from businesses during floods.	Reduce flood and erosion risks by reducing vulnerabilities and consequences, even as climate change increases frequency and severity of floods.	Education & Awareness	Planning	\$0 - \$10,000	Municipal Operating Budget	7/2023 - 12/2023	Low	14	6	84