



City of Bristol  
Aquifer Protection Agency

SPECIAL MEETING - MONDAY, MAY 12, 2025  
CITY HALL - COUNCIL CHAMBERS  
111 NORTH MAIN STREET  
6:30 P.M.

**INFORMATION FOR THE PUBLIC TO ACCESS THIS MEETING:**

**Zoom Meeting link:**

[https://bristolct-gov.zoom.us/j/81497297498?pwd=HNZFvvQ97EiTHI1oT6h0WaQaaJBuzK.](https://bristolct-gov.zoom.us/j/81497297498?pwd=HNZFvvQ97EiTHI1oT6h0WaQaaJBuzK.1)

1

**Meeting ID:**

814 9729 7498

**Meeting Passcode:**

123456

**Join by phone**

1-929-205-6099

**AGENDA**

1. Call to Order
2. Approval of Minutes
  - a. Special Meeting - March 10, 2025
3. Receipt of New Applications
  - a. Application #APA2-2504-01 – Request for: 1. Modification of an existing registration; 2. Re-registration for regulated activities that have been inactive within the past five years for Daily Mart, Inc. (Shell Gas Station) at 551 Farmington Avenue; Assessor's Map 53, Lot 128G; BG (General Business) zone; Babar Zardad for Daily Mart, applicant/owner.
4. Adjournment

**BRISTOL AQUIFER PROTECTION AGENCY  
MINUTES  
SPECIAL MEETING OF MONDAY MARCH 10, 2025**

By: Chairman White

Time: 7:02 P.M.

Place: City Hall  
111 North Main St.  
Council Chambers  
First Floor

| MEMBERS                   | NAME                                   | PRESENT | ABSENT |
|---------------------------|----------------------------------------|---------|--------|
| REGULAR AGENCY MEMBERS:   | David White (Chairman)                 | X       |        |
|                           | Thomas Marra (Vice Chairman)           | X       |        |
|                           | Richard Harlow                         | X       |        |
|                           | Richard Goodwin (Secretary)            | X       |        |
|                           | John LaFreniere                        | X       |        |
| ALTERNATE AGENCY MEMBERS: | Michael DeRoehn                        | X       |        |
|                           | Sara Mangiafico                        |         | X      |
|                           | Peter Caruso                           | X       |        |
| STAFF:                    | Robert M. Flanagan, AICP, City Planner | X       |        |

## 1. Call to Order

Per the order of Chairman White, the meeting was called to order at 7:02 P.M.

## 2. Approval of Minutes

## a. Special Meeting - February 10, 2025

Chairman White designated himself, regular Agency members Marra, Goodwin, Harlow, LaFreniere and White to vote on the February 10, 2025, special minutes.

**MOTION:** Move to approve the minutes of the February 10, 2025, special meeting.

By: Harlow

Seconded: Goodwin.

For: Harlow, Marra, Goodwin, LaFreniere and White.

Against: None.

Abstained: None.

## 3. Determinations

- a. Application #APA-2025-03 – Determination of regulatory status for Non-Profit Housing (174 units/75 buildings) for the Cambridge Park Rehabilitation at Lot 129A Davis Drive; Assessor's Map 53, Lot 129A; A (Multi-Family Residential) zone; The Housing Authority of the City of Bristol, applicant; Eversource Energy/Yankee Gas, owner.

Chairman White designated himself, regular Agency Members White, Marra, LaFreniere and Harlow to vote on Application #APA-2025-03.



The Agency acknowledged receipt of the following items in their electronic packets: *a copy of the Determination Application for Lot 129B, Davis Dr., Application #APA-2025-03 (Pg. 1-3); a location map undated, entitled Cambridge Park – APA-2025-03, Lot 129A, Davis Drive, Map 53, Lot 129A, A-Multi-Family Residential Zone; an aquifer map undated, entitled Cambridge Park – APA-2025-03, Lot 129A, Davis Drive, Map 53, Lot 129A, A-Multi-Family Residential Zone; a floodplain map undated, entitled Cambridge Park – APA-2025-03, Lot 129A, Davis Drive, Map 53, Lot 129A, A-Multi-Family Residential Zone; a wetlands map undated, entitled Cambridge Park – APA-2025-03, Lot 129A, Davis Drive, Map 53, Lot 129A, A-Multi-Family Residential Zone; a zoning map undated, entitled Cambridge Park – APA-2025-03, Lot 129A, Davis Drive, Map 53, Lot 129A, A-Multi-Family Residential Zone; a Google Earth map undated, entitled Cambridge Park – APA-2025-03, Lot 129A, Davis Drive, Map 53, Lot 129A, A-Multi-Family Residential Zone; a Google Earth map undated, entitled Cambridge Park – APA-2025-03, Lot 129A, Davis Drive, Map 53, Lot 129A, A-Multi-Family Residential Zone; aquifer protection area guidance pages, dated from 06232016 to 07072014, from the Connecticut Department of Energy & Environmental Protection, 79 Elm St., Hartford, CT, 06106-5127, entitled Aquifer Protection Area Guidance, Best Management Practices for Temporary Construction and Reconstruction Operations in Aquifer Protection Areas (Pg. 1-2); a entitled aquifer protection area guidance page, dated 070725, from the Connecticut Department of Energy & Environmental Protection, 79 Elm St., Hartford, CT, 06106-5127, entitled Aquifer Protection Area Guidance*

Staff explained that the applicants and the owners filed the determination application and there are no boxes checked for any regulated activities. The City Planner indicated that there are no regulated activities. Staff however noted the fueling activity was required. As such, the City Planner noted that the safeguards for fueling activities on site would be placed on the site plan along with the sheets detailing Best Management Practices for the Aquifer Protection Area. Staff said the construction was temporary in nature and not regulated but there may be components that may be regulated and protections are required.

Agency inquiries: Staff noted the entire property is in the Aquifer Protection Area but the Staff would work with the applicant on designating three areas for refueling within the three phases, and that information should be placed to be placed on the Site Plan.

Attorney Vitrano agreed with adding the three designated refueling areas to the plans.

**MOTION:** Move that the Bristol Aquifer Protection Agency accept the determination that there are no regulated activities proposed with the temporary construction activities associated with the rehabilitation of Non-Profit Housing (174 units/75 buildings) in accordance with Section 4.04 of the Bristol Aquifer Protection Area Regulations. Additionally, the refueling of construction vehicles and equipment will not take place within the Aquifer Protection Area and Best Management Practices (BMP) for Aquifer Protection Areas will be strictly followed.

The proposed temporary construction activity is within the "Upper White's Bridge/Lower White's Bridge/Mix Street" located within the Aquifer Protection Area for the property located at: The Housing Authority of the City of Bristol, applicant; Eversource Energy/Yankee Gas, owner; Lot 129A Davis Drive; Assessor's Map 53, Lot 129A.

By: Marra

Seconded: Harlow.

For: Harlow, Marra, Goodwin, LaFreniere and White.

Against: None.

Abstained: None.

The attorney thanked the Agency and Staff for all their efforts on these complicated applications.

#### 4. Adjournment

Chairman White designated himself, regular Agency Members White, Marra, LaFreniere and Harlow to vote on the adjournment.

**MOTION:** Move to adjourn at 7:10 P.M.

By: Goodwin

Seconded: White.

For: Harlow, Marra, Goodwin, LaFreniere and White.

Against: None.

Abstained: None.

This meeting was recorded.

Respectfully submitted,

Nancy King  
Recording Secretary

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David White, Chairman

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Richard Goodwin, Secretary

DRAFT

Re-  
Registration  
Form  
May 2025

**Registration Form for Regulated Activities  
in an Aquifer Protection Area  
City of Bristol CT  
Aquifer Protection Area Program**

| AGENCY USE ONLY  |                     |
|------------------|---------------------|
| APA Name         | <u>UWB/LWB/MS</u>   |
| Registration No. | <u>APA2-2504-01</u> |
| Date of Receipt  | <u>04/30/25</u>     |

This form must be used to register regulated activities in Aquifer Protection Areas within the City of Bristol in accordance with Section 8.01 of the Bristol Aquifer Protection Area Regulations. Before filling out the form, please carefully review it in its entirety.

A fee of \$100 must be submitted with this form. A registration shall not be deemed complete and no activity shall be considered registered unless the fee has been paid in full. The fee is non-refundable and shall be paid by cash or check to the City of Bristol.

**Part I: Facility Information**

|                                    |                                              |                        |             |
|------------------------------------|----------------------------------------------|------------------------|-------------|
| Name of Company/Business/Facility: | <u>Daily Mart, Inc. (Shell Gas Sation)</u>   |                        |             |
| Street Address/Location:           | <u>551 Farmington Ave. Bristol, CT 06010</u> |                        |             |
| Assessor's Map No.:                | <u>53</u>                                    | Assessor's Lot No(s).: | <u>128G</u> |

**Part II: Type of Registration**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <p>This registration is (<i>check all that apply</i>):</p> <p><input type="checkbox"/> a new registration</p> <p><input type="checkbox"/> a renewal of an existing registration</p> <p><input checked="" type="checkbox"/> a modification of an existing registration</p> <p><input checked="" type="checkbox"/> for a regulated activity that has been inactive within the past five years</p> <p><input type="checkbox"/> for a contiguous property leased, owned, or under option to purchase</p> | <p><i>Indicate any previous or existing aquifer protection registration numbers:</i></p> <p><u>APA-1605-01</u></p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|

**Part III: Registrant Information**

|                                                                                                                                       |                                                       |                                                 |                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------|----------------------------------------------------|
| <b>1. Registrant(s)</b>                                                                                                               |                                                       |                                                 |                                                    |
| Name: <u>Babar Zardad</u>                                                                                                             |                                                       | Title: <u>President, Daily Mart, Inc.</u>       |                                                    |
| Mailing Address: <u>551 Farmington Ave,</u>                                                                                           |                                                       |                                                 |                                                    |
| City/Town: <u>Bristol</u>                                                                                                             |                                                       | State: <u>CT</u>                                | Zip Code: <u>06010</u>                             |
| Business Phone: <u>(860) 306-3136</u>                                                                                                 |                                                       | Fax No.: _____                                  |                                                    |
| E-mail Address: <u>bzardad@gmail.com (or) dailymartshell@gmail.com</u>                                                                |                                                       |                                                 |                                                    |
| Registrant's interest in property or facility at which the regulated activity is located ( <i>check all that apply</i> ):             |                                                       |                                                 |                                                    |
| <input checked="" type="checkbox"/> property owner                                                                                    | <input type="checkbox"/> option holder                | <input type="checkbox"/> lessee/tenant          | <input checked="" type="checkbox"/> facility owner |
| <input type="checkbox"/> easement holder                                                                                              | <input checked="" type="checkbox"/> facility operator | <input type="checkbox"/> other (specify): _____ |                                                    |
| Name of Company/Business/Facility:                                                                                                    |                                                       | <u>Daily Mart, Inc. (Shell Gas Station)</u>     |                                                    |
| If there are additional Registrants, attach additional sheet(s) with the required information and check here <input type="checkbox"/> |                                                       |                                                 |                                                    |

**Part III: Registrant Information (cont'd)**

**2. Primary Contact Person for Agency correspondence and inquiries, if different from the Registrant**

Name: N/A Title: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City/Town: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Business Phone: \_\_\_\_\_ Fax No.: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

**3. Attorney or other representative, if applicable:**

Name: N/A Title: \_\_\_\_\_

Firm Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City/Town: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Business Phone: \_\_\_\_\_ Fax No.: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

**4. Facility Operator, if different from the Registrant:**

Name: N/A \_\_\_\_\_

Contact Person: \_\_\_\_\_ Title: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City/Town: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Business Phone: \_\_\_\_\_ Fax No.: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

**5. Facility Owner, if different from the Registrant:**

Name: N/A \_\_\_\_\_

Contact Person: \_\_\_\_\_ Title: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City/Town: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Business Phone: \_\_\_\_\_ Fax No.: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

**6. Engineer(s) or other consultant(s) employed or retained to prepare the registration, the materials management plan, and/or the stormwater management plan.**

Name: N/A \_\_\_\_\_

Contact Person: \_\_\_\_\_ Title: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City/Town: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Business Phone: \_\_\_\_\_ Fax No.: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

Services Provided: \_\_\_\_\_

*If additional sheets are necessary, attach them to this form and check here* ☐

**Part IV: Activity Information**



Check all regulated activities being registered. (For a full description of each regulated activity, see Section 2 of the Bristol Aquifer Protection Area Regulations.)

- ☒ Underground storage of oil, petroleum, or hazardous material; underground transmission of oil, petroleum, or hazardous material
- ☒ Dispensing of oil or petroleum for the purpose of retail, wholesale or fleet use
- ☐ On-site storage of hazardous materials for the purpose of wholesale sale
- ☐ Repair or maintenance of vehicles; repair or maintenance of internal combustion engines of vehicles (including boats, snow blowers, and lawnmowers)
- ☐ Salvage operations of metal or vehicle parts
- ☐ Wastewater discharges to ground water other than domestic sewage and stormwater
- ☐ Car or truck washing
- ☐ Production or refining of chemicals
- ☐ Clothes cleaning service (dry cleaner); cloth cleaning service
- ☐ Industrial laundry service
- ☐ Generation of electrical power by means of fossil fuels (e.g., power plants)
- ☐ Production of electronic boards, electrical components, or other electrical equipment
- ☐ Embalming or crematory services
- ☐ Furniture stripping operations
- ☐ Furniture finishing operations
- ☐ Storage, treatment or disposal of hazardous waste under a RCRA permit
- ☐ Biological or chemical testing, analysis or research
- ☐ Pest control services which involve the storage, mixing, or loading of pesticides or other hazardous materials
- ☐ Photographic finishing
- ☐ Production or fabrication of metal products, including metal cleaning or degreasing with industrial solvents, metal plating, or metal etching
- ☐ Printing, plate making, lithography, photoengraving, or gravure
- ☐ Accumulation or storage of waste oil, anti-freeze or spent lead-acid batteries as part of a recycling facility under a state DEEP General Permit
- ☐ Production of rubber, resin cements, elastomers or plastic
- ☐ Storage of de-icing chemicals for retail sale or for de-icing parking lots, access drives, etc.
- ☐ Accumulation, storage, handling, recycling, disposal, reduction, processing, burning, transfer or composting of solid waste under a state DEEP permit (solid waste facility, landfill, transfer station, composting facility, processing center)
- ☐ Dyeing, coating or printing of textiles; tanning or finishing of leather
- ☐ Production of wood veneer, plywood, reconstituted wood or pressure-treated wood
- ☐ Pulp production processes that involve bleaching

## Part V: Certification of Compliance with Best Management Practices

"I hereby certify that the subject facility is in compliance with Best Management Practices for regulated activities as set forth in Section 12 of the Bristol Aquifer Protection Area Regulations. I have checked the box by each of the following statements as verification that the subject facility is in compliance with all applicable best management practices."

- ☒ Any above-ground storage of hazardous materials is in compliance with the provisions of Section 12.01(1) of the Bristol Aquifer Protection Area Regulations.
- ☒ The number of underground storage tanks used to store hazardous materials, if any, shall not be increased.
- ☒ Any underground storage tanks used to store hazardous materials shall not be replaced except in accordance with the provisions of Section 12.01(3) of the Bristol Aquifer Protection Area Regulations.
- ☒ Devices which allow the release of wastewaters to the ground shall not be used except in accordance with Section 12.01(4) of the Bristol Aquifer Protection Area Regulations.
- ☒ A Materials Management Plan for each regulated activity has been developed and implemented in accordance with Section 13 of the Bristol Aquifer Protection Area Regulations.

**Babar Zardad** Digitally signed by Babar Zardad  
Date: 2025.05.06 12:17:46 -04'00'

\_\_\_\_\_  
Registrant's Signature

**April 15, 2025**

\_\_\_\_\_  
Date

**Babar Zardad**

\_\_\_\_\_  
Registrant's Name (print or type)

**President, Daily Mart, Inc.**

\_\_\_\_\_  
Title (if applicable)

\_\_\_\_\_  
Facility Operator's Signature (if other than Registrant)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Facility Operator's Name (print or type)

\_\_\_\_\_  
Title (if applicable)

## Part VI: Certification of Consent by Property Owner(s)

The owner(s) of the property on which the facility is located, if different from the Registrant, operator or facility owner, must sign this part, consenting to the filing of this registration form. A registration will be considered incomplete unless the signatures of all property owners have been provided.

"I certify that I am the owner of record of the property on which the subject facility is located and consent to the filing of this registration form." (If more than one owner, attach additional sheets with the information required below for each owner.)

**Babar Zardad**

\_\_\_\_\_  
Name of Property Owner (print or type)

**April 15, 2025**

\_\_\_\_\_  
Date

**Babar Zardad** Digitally signed by Babar Zardad  
Date: 2025.05.06 12:18:44 -04'00'

\_\_\_\_\_  
Authorized Signature

**President**

\_\_\_\_\_  
Title of Signatory



## Part VII: Supporting Documents

Check the box next to each attachment being submitted as verification that *all* applicable attachments have been included with this registration form. Label each document as indicated in this part (e.g., Attachment A) and include the facility's address on each document.

☒ **Attachment A: Facility Boundary Map**

A map at a size and scale acceptable to the Agency showing the location and extent of the facility, including all buildings and structures. Acceptable maps include (but are not limited to) the relevant portion of a USGS Topographic Quadrangle Map, a map produced using the city's Geographic Information System, or an up-to-date plot plan.

☒ **Attachment B: Materials Management Plan**

☒ prepared in accordance with the requirements of Section 13.01 of the Bristol Aquifer Protection Area Regulations

☐ prepared in accordance with the requirements of Sections 8.03(2) and 13.02 of the Bristol Aquifer Protection Area Regulations, *if required by the Agency*.

☐ **Attachment C: Stormwater Management Plan**, if required by the Agency.

☐ **Attachment D: Other documents** as may be required by the Agency.

## Part VIII: Certification of Completeness and Accuracy

"I have personally examined and am familiar with the information submitted in this registration and all attachments, and I certify, based upon reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, that the submitted information is true, accurate, and complete to the best of my knowledge and belief.

I understand that any false statement contained in this registration is punishable as a criminal offense under Section 53a-157b of the Connecticut General Statutes and any other applicable law.

I understand that the Agency or its duly authorized agent may periodically inspect the subject facility at reasonable hours.

I certify that this registration is complete and accurate as prescribed by the Agency without alteration of the text."

**Babar Zardad** Digitally signed by Babar Zardad  
Date: 2025.05.06 12:19:58 -04'00'

April 15, 2025

Registrant's Signature

Date

Babar Zardad

President, Daily Mart, Inc.

Registrant's Name (print or type)

Title (if applicable)

Facility Operator's Signature (if other than Registrant)

Date

Facility Operator's Name (print or type)

Title (if applicable)

**THIS REGISTRATION FORM, FEE, AND ALL SUPPORTING DOCUMENTS SHALL BE FILED IN PERSON AT:**

City of Bristol Land Use Office  
Public Works Department  
City Hall, 111 North Main Street  
Bristol, CT

**ELECTRONIC OR MAIL SUBMISSIONS WILL NOT BE ACCEPTED – NO EXCEPTIONS!**

# Narrative

**Daily Mart, Inc. (Daily Mart Shell Gas Station)**  
**551 Farmington Ave,**  
**Bristol, CT 06010**  
**(860) 973-4380**  
[dailymartshell@gmail.com](mailto:dailymartshell@gmail.com)

To Whom This May Concern:

Narrative Statement for Aquifer Agency:

Babar Zardad is the owner of Daily Mart, Inc. (Daily Mart Shell) located at 551 Farmington Ave, Bristol, CT 06010. (Next to Walgreens Plaza.)

Mr. Zardad purchased this property, previously known as Citgo Gas Station, with a car bay garage in 2006, from Hackling's family. Though it was operational to run as it is, Mr. Zardad had a vision of rebuilding the gas station into a wonderful state-of-the-art gas station, as the previous property was not up to current standards, which consisted of three underground tanks that held 24,000 gallons of fuel, which were outdated and contaminated by soil.

So, he decided to hire an Engineering Firm (Civil/Environmental/Geotechnical/Traffic Engineers) & Architecture Firm to take on this project a few months before Covid-19. Unfortunately, when COVID-19 happened, the project stopped. But Mr. Zardad was relentless in finishing this project, no matter how long it took. His vision finally came into reality, and he was very persistent in protecting the property, which is in Aquifer Land. His belief in protecting the environment was key when starting this project with a sound design from an environmental and engineering standpoint, along with vivid architectural design.

Daily Mart, Inc. (Daily Mart Shell) is a newly built state-of-the-art gasoline station for fueling vehicles. Since the property is in Aquifer Land, which is an essential part of our ecosystem, we have taken robust measures by hiring Environmental Engineers who specialize in protecting the land by the rules and regulations of the Town and State of CT.

- ✓ *Our first measure was to eliminate the three outdated underground tanks.*
- ✓ *Our second measure was to remediate the old soil by removing tons of it, to protect the Aquifer Land by implementing new soils according to rules and regulations. Which was a painful effort for a few months.*
- ✓ *One of the things we think you should know is that we focused on the total amount of gallons (stored underground) has remained constant at 24,000 gallons.*
- ✓ *The other thing we need to mention is that the total number of tanks went from 3 to 2; this is very important because it shows we have reduced our fuel storage footprint. And the two new tanks are double-walled fiberglass, which have been approved and are good for 40 years, and we did not spare any amount of money to get this accomplished.*

- ✓ *Also, to monitor any fuel spills, we have implemented state-of-the-art Tank Monitoring Systems. (TLS-450 Plus.) Against any spills that may cause seeping into the soil and groundwater.*
- ✓ *Additionally, we have implemented an Emergency Shut-Off System in case of any accident which may or may not occur on the side of the building, visible to any first responders at the site and to our trained employees.*
- ✓ *To be more proactive, we have hired professionals under contract for regular maintenance and inspections to be on standby at the moment's notice for any mitigation and remediation measures.*
- ✓ *It is our principle at Daily Mart, Inc., to protect Aquifer Land by taking all the necessary measures to protect the environment, which may cause or lead to health issues for us and for our surrounding businesses or residents close to our facilities. And we will thrive on this for many years to come if we, at Daily Mart, Inc., own the property to take all necessary measures.*
- ✓ *To protect our environment, we have planted necessary shrubs/plants to spruce the property, along with proper fencing along the boundaries of the site.*
- ✓ *And to maintain proper traffic flow, we have added enough parking spaces for consumers to have easy access to enter & exit via Farmington Ave and Hefbern Rd as well. Which are properly marked according to the site plan, which is approved by the City of Bristol City Planner.*
- ✓ *Currently, our site has well-lit LED lighting fixtures to ensure great visibility for all.*
- ✓ *Also, we have implemented state-of-the-art CCTV & Alarm Systems, for our protection and our consumers, and for our first responders (who protect and serve) in the Town of Bristol to have access for emergency purposes only (24/7/365).*

We at Daily Mart, Inc., constantly try to improve according to industry standards, along with the City of Bristol and the State of CT. Since the site lies within the Aquifer Protection Zone, we will require our registration to be considered for the renewal of our certification.

Looking forward to hearing from you all. If you have any further questions, feel free to reach out to us. Thank you.

Sincerely,

Babar Zardad, President  
Daily Mart, Inc.

# Mapping





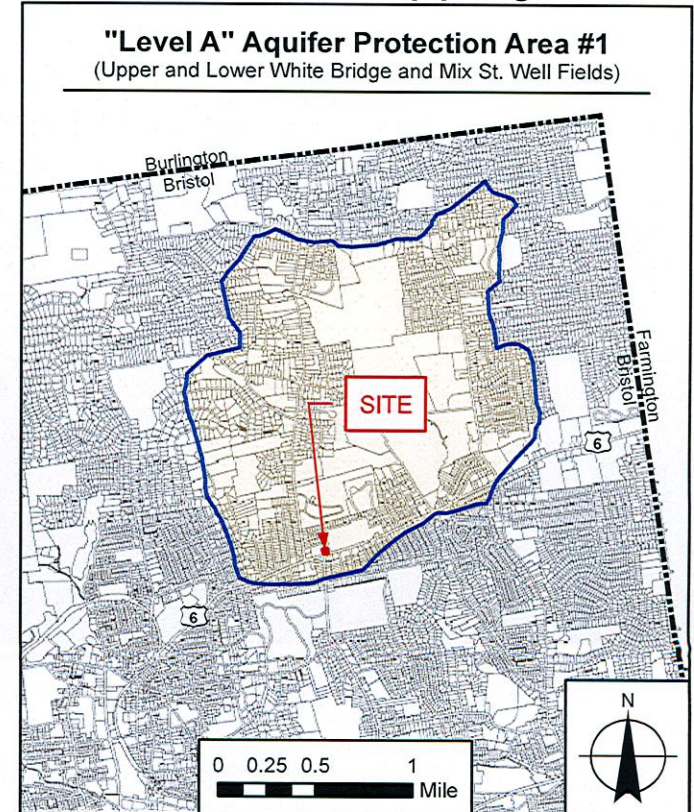
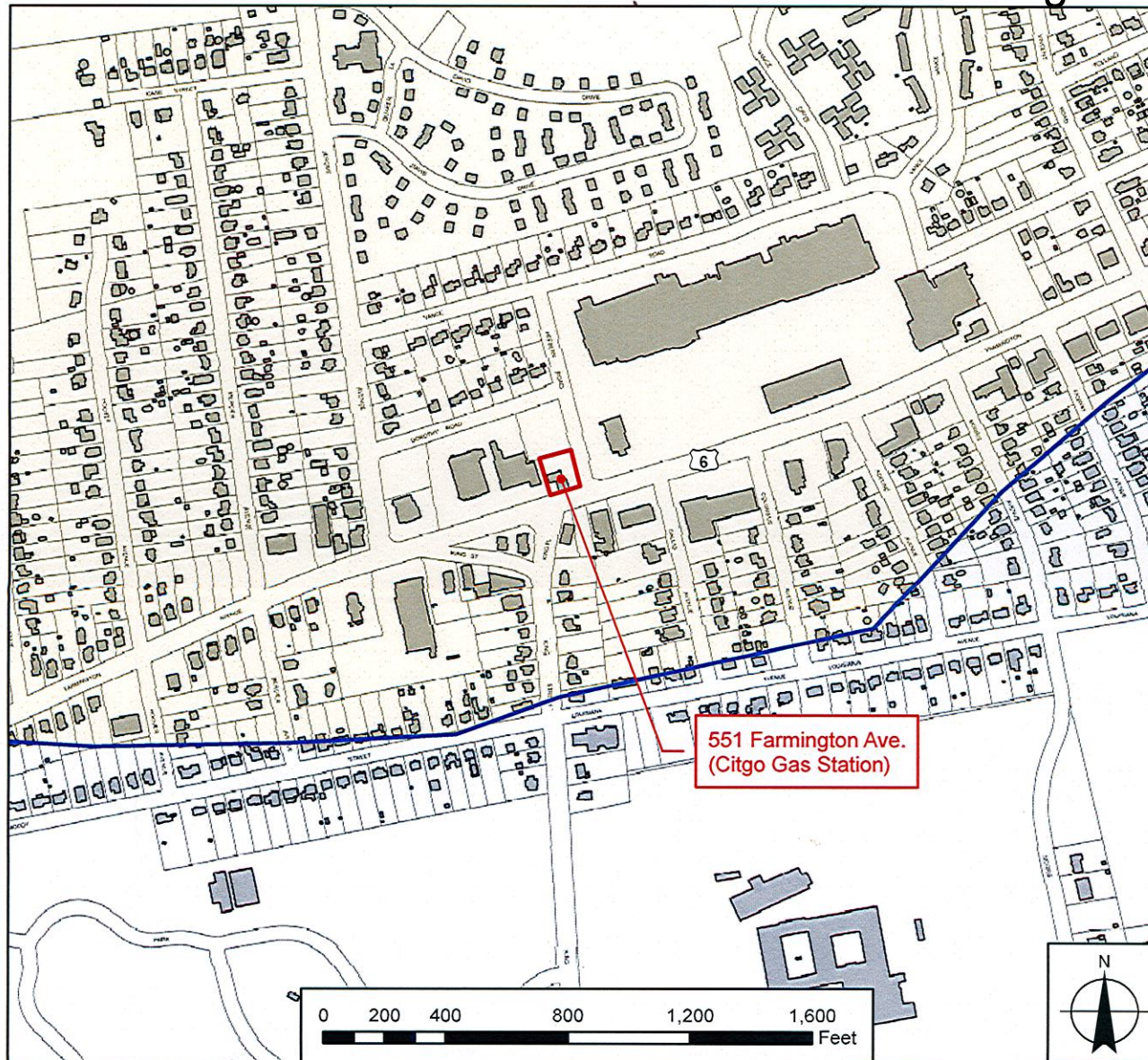
# Determination of Regulatory Status Aquifer Protection Area Program

## Facility Location Map

Citgo Gas Station/Daily Mart  
551 Farmington Avenue, Bristol, CT

Form No.: **2012-024**  
Date of Receipt: **8/28/12**  
Determination: **Regulated**  
Determination Date: **8/28/12**

## Original Determination Mapping - 2012

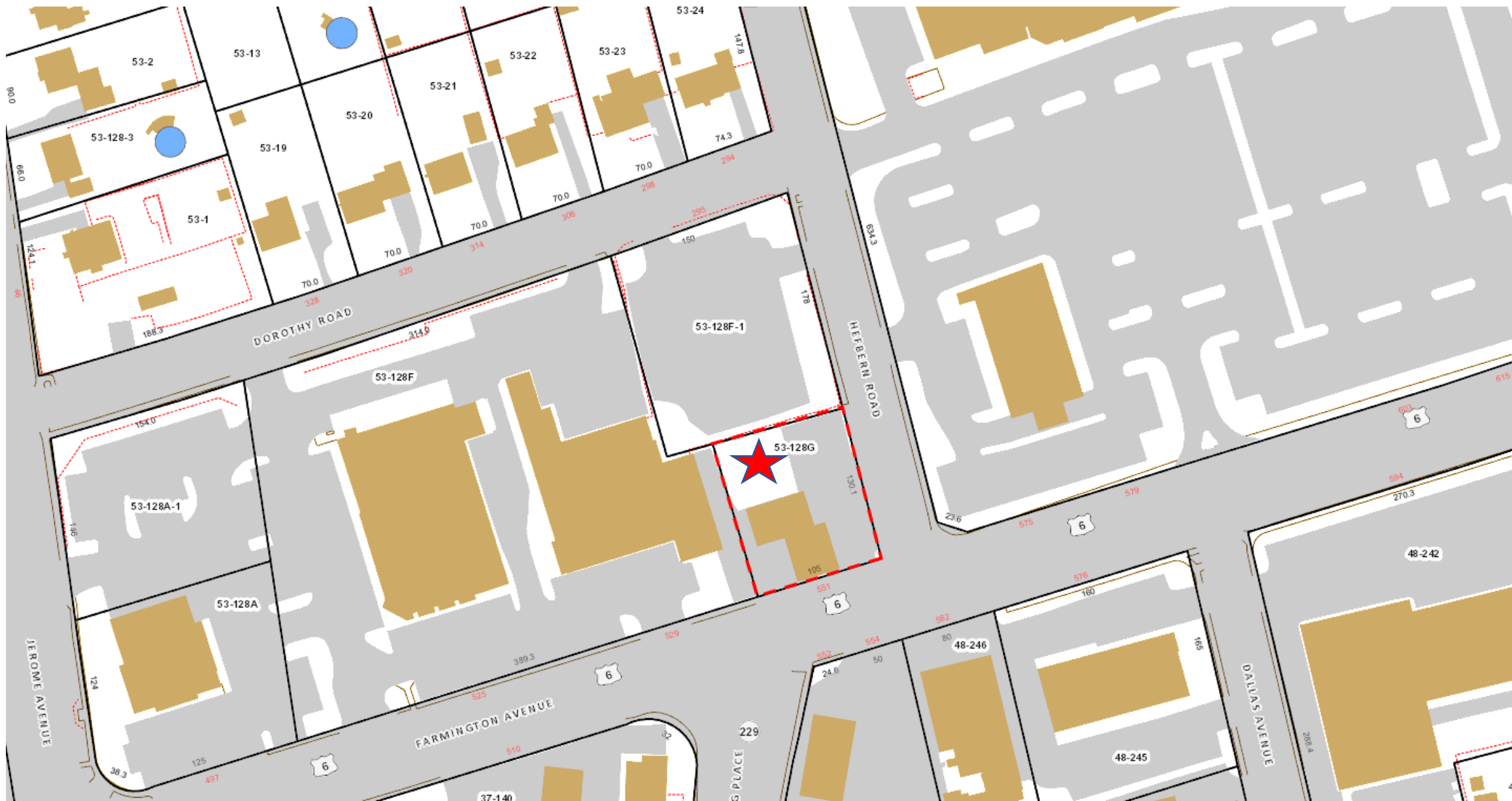


### Legend

- Property boundary of subject facility
- Buildings/Structures
- "Level A" Aquifer Protection Area #1 (Effective Date: 5/27/11)

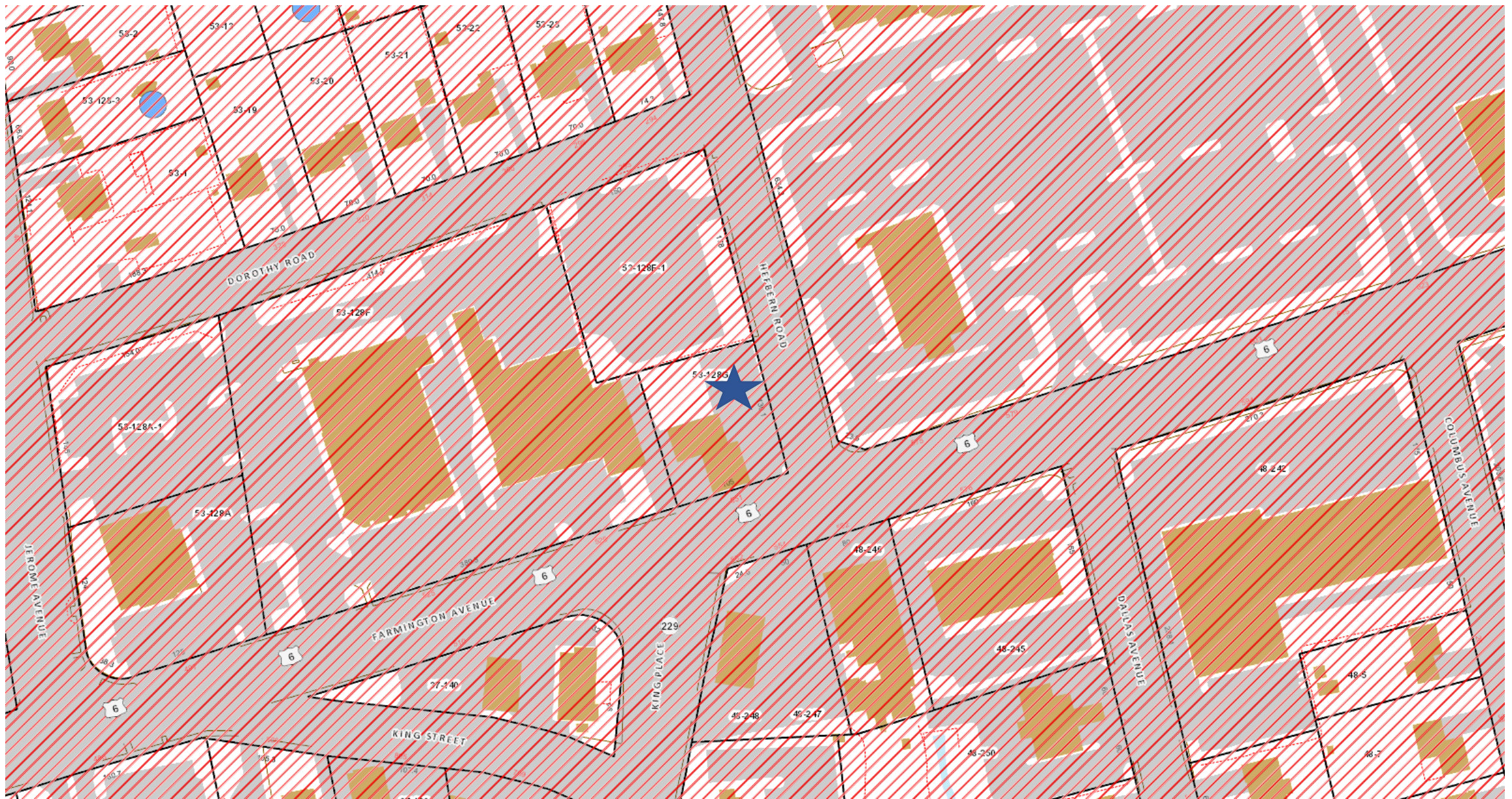
Map prepared by Bristol Land Use Office: 9/04/12





551 Farmington Avenue – Location  
Map 53 Lot 128G



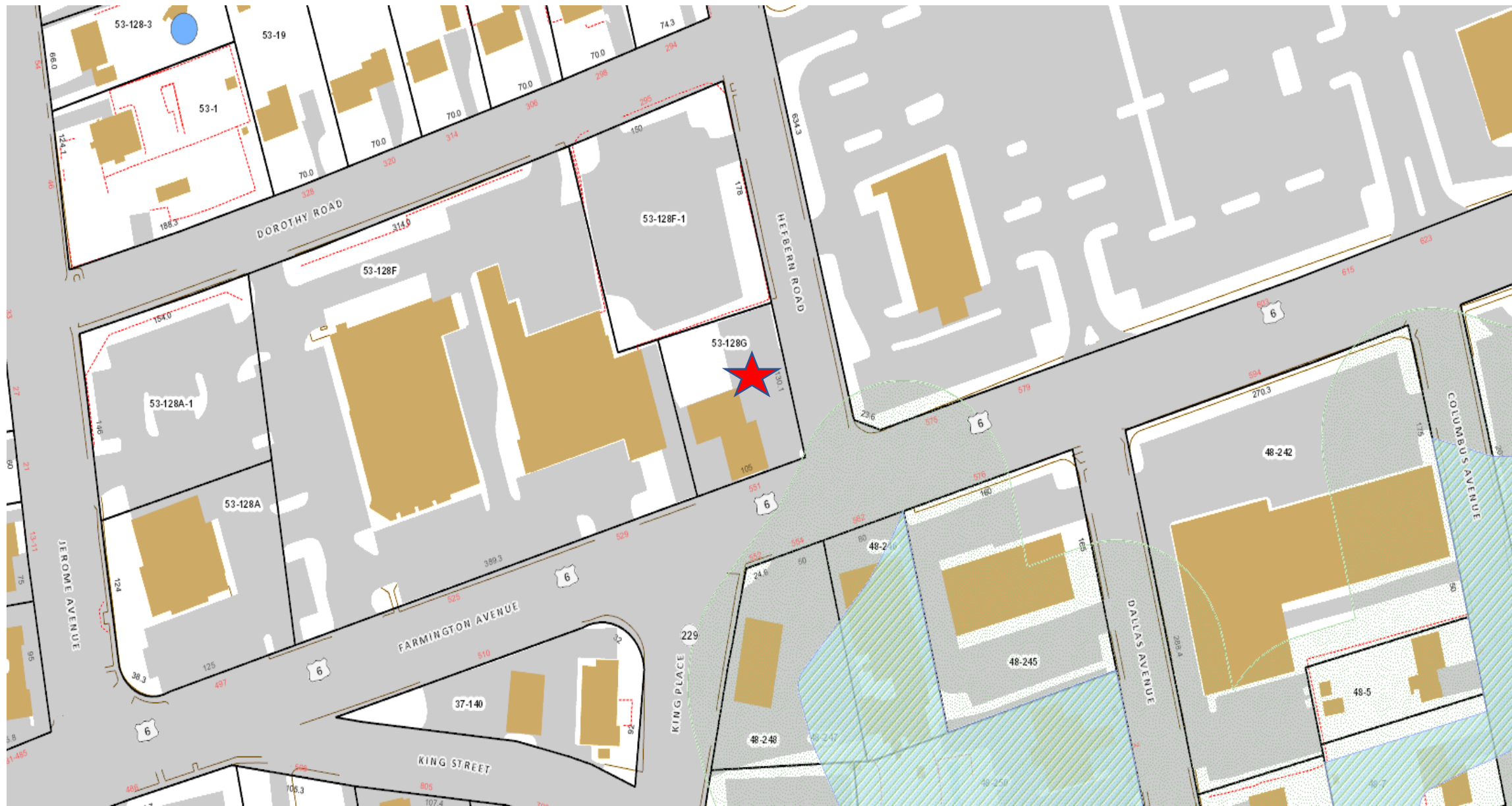


551 Farmington Avenue – Aquifer Protection  
Map 53 Lot 128G

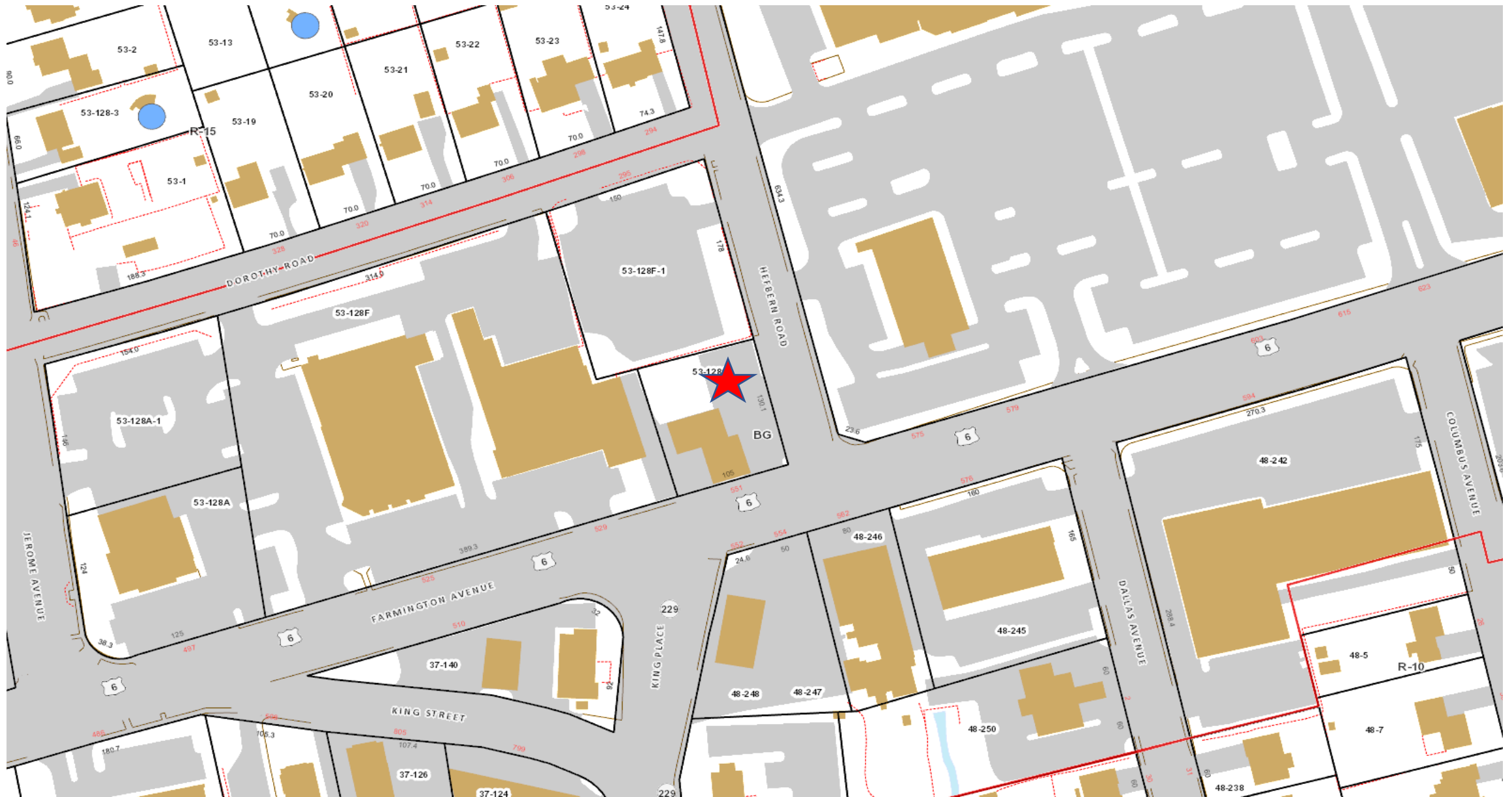




551 Farmington Avenue – Floodplain  
Map 53 Lot 128G

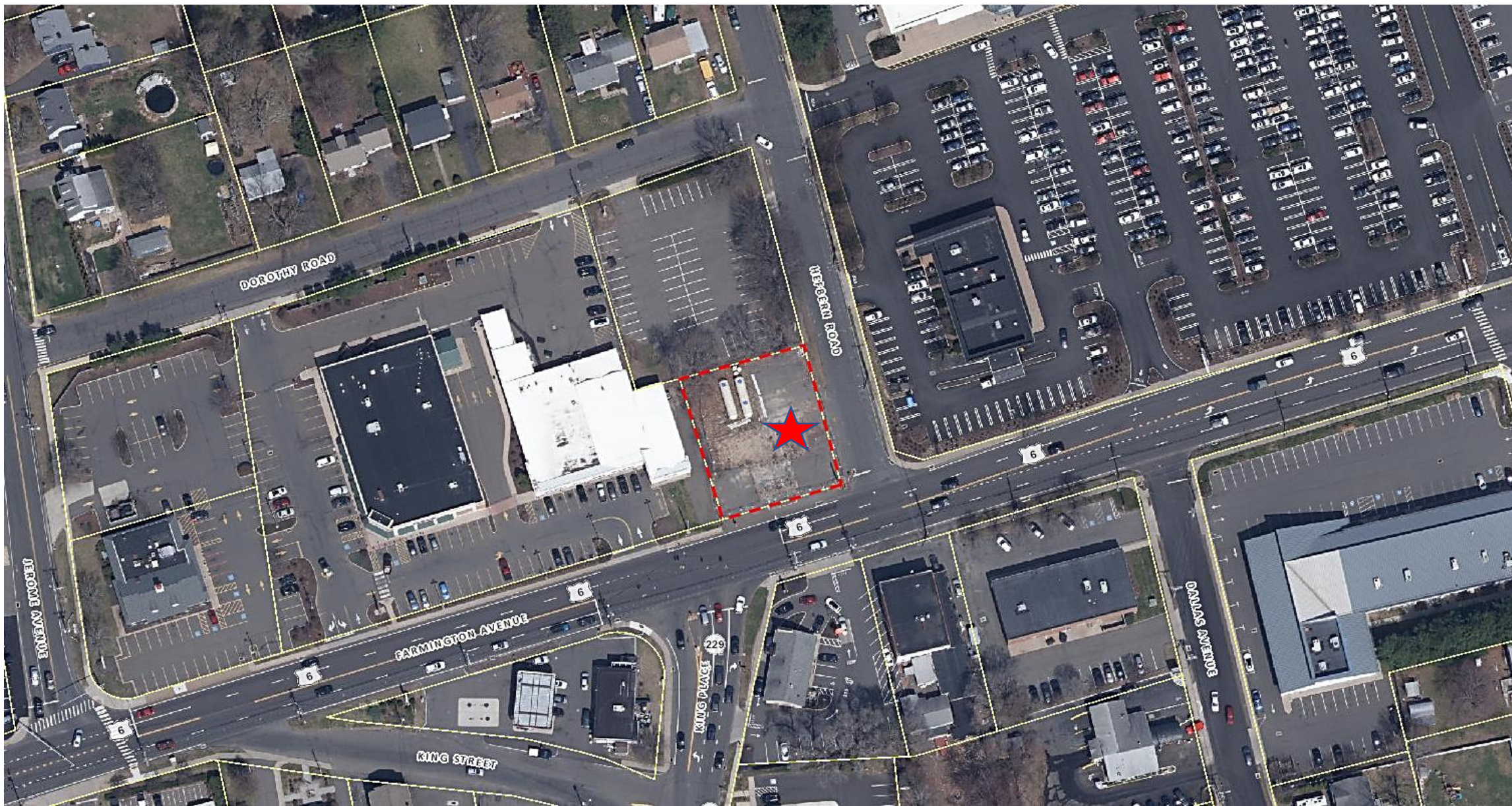


551 Farmington Avenue – Inland Wetlands  
Map 53 Lot 128G



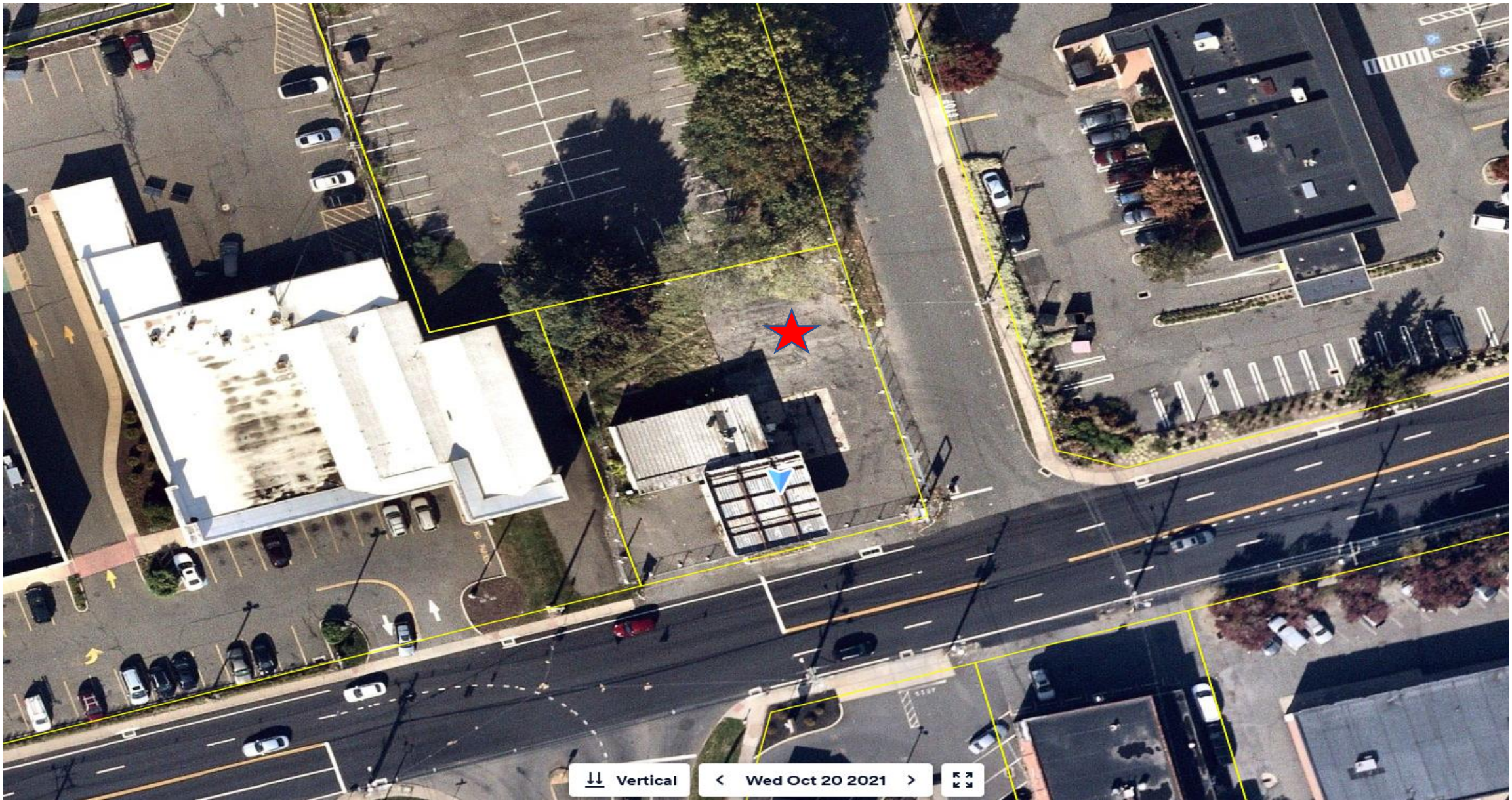
551 Farmington Avenue – Zoning – BG – General Business  
Map 53 Lot 128G





551 Farmington Avenue – 2023 Aerial  
Map 53 Lot 128G





551 Farmington Avenue – Aerial  
Previous Footprint  
Map 53 Lot 128G





551 Farmington Avenue – Aerial –  
New Underground Tanks Visible  
Map 53 Lot 128G





551 Farmington Avenue – Aerial  
Newly Reconstructed Footprint  
Map 53 Lot 128G



# Materials Management Plan May 2025

**MATERIALS MANAGEMENT PLAN FOR  
Daily Mart  
551 Farmington Avenue, Bristol, CT  
FOR REGULATED ACTIVITIES IN  
AN AQUIFER PROTECTION AREA**



**BRISTOL AQUIFER PROTECTION AGENCY  
CITY OF BRISTOL  
111 NORTH MAIN STREET  
BRISTOL, CT 06010**



**DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION  
BUREAU OF WATER PROTECTION AND LAND REUSE  
PLANNING AND STANDARDS DIVISION  
AQUIFER PROTECTION AREA PROGRAM  
79 ELM STREET, HARTFORD, CT 06106**



## Instructions

This model Materials Management Plan (MMP) was prepared by the CT Department of Energy and Environmental Protection (DEEP) and adapted for local use by the City of Bristol to assist you in complying with the requirements of the Bristol Aquifer Protection Area (APA) Program. The document provides a general form for developing and implementing a site-specific MMP for regulated activities conducted at facilities in aquifer protection areas in Bristol.

This model is an example of what a facility might use for a template for preparing its own MMP. Depending on the type of business or industry, MMPs may be different and could be tailored to meet the needs and requirements of each individual facility. This model MMP has eight sections including:

- Section 1 – Facility and Site Information
- Section 2 – Tables
- Section 3 – Emergency Response Plan
- Section 4 – Employee Training
- Section 5 – Record Keeping System
- Section 6 – Individual Responsible for Implementing MMP
- Section 7 – Additional Protection Actions
- Section 8 – Certification

Keep the following in mind when completing the MMP:

1. If any section does not apply to your facility, write “*not applicable*”. Do not skip it or leave it blank.
2. The MMP may be hand-written, but has been converted to an electronic format for your convenience.
3. If other similar information has already been prepared for the site for other purposes (i.e. site plans, emergency response procedures, spill plans, etc) and meets the MMP requirement, it may be submitted as an attachment.

Once the MMP is complete, you are required by the APA program to keep it on file at your facility and use it to assist you in controlling inventory of hazardous materials, monitoring and inspecting your site operations, responding to emergency and training employees.

Keep the MMP up to date. By using common sense, good housekeeping and by following the MMP, pollutants that could potentially contaminate ground water can be managed or eliminated without significant cost. Remember, it costs less to keep pollutants out of ground water than to remediate later!

The following are telephone numbers that you may find useful when assembling the MMP:

Bristol Land Use Office: 860-584-6225 (for any questions about the APA program or for assistance specific to completing the MMP)

Bristol Water Department: 860-582-7431 Bristol Water Department Emergency Line: 860-583-6504

### **CT DEEP Division Telephone Numbers:**

Aquifer Protection Area Program: 860-424-3020 (for any questions specific to completing the MMP, its format or its contents)

Pollution Prevention: 860-424-3297 (for any question about pollution prevention or best management practices)

Bureau of Materials Management and Compliance Assistance: 860-424-3023 (for any questions about spills, hazardous materials, waste engineering and enforcement)

Wastewater Permitting and Enforcement: 860-424-3018 (for any questions about floor drains or waste water discharges)

Emergency Response and Spill Prevention:

Emergency Line: 860-424-3333 OR 860-424-3338 (to report spills)

General Information: 860-424-3024 (for questions on underground storage tanks or spill preparedness)

## APA Materials Management Plan

### SECTION 1 – FACILITY AND PROPERTY INFORMATION

#### A. Facility Information

Name of business/facility: Daily Mart, Inc. (Shell Gas Station) Date of MMP: 04/15/2025

Address/location of business/Facility: 551 Farmington Ave, Bristol, CT 06010

Telephone No. of business/facility: 860-306-3136

E-Mail address of business/facility: bzardad@gmail.com (or) dailymartshell@gmail.com

Briefly describe the type of business(es) conducted at this address/location:

Convenience Store/Gas Station

Total number of employees: 3

#### B. Property Information

Property size (in acres or square feet): .31 acres

Description and size of buildings or accessory structures on the property (in square feet):

|                 | Description                          | Size            |
|-----------------|--------------------------------------|-----------------|
| 1. Building #1: | <u>Convenience Store/Gas Station</u> | <u>1,800 SF</u> |
| 2. Building #2: | <u></u>                              | <u></u>         |
| 3. Building #3: | <u></u>                              | <u></u>         |
|                 | Total Area:                          | <u>1,800 SF</u> |

Description and size of paved surfaces on the property (in acres or square feet):

|                      | Description              | Size            |
|----------------------|--------------------------|-----------------|
| 1. Paved surface #1: | <u>Asphalt Pavement</u>  | <u>5,000 SF</u> |
| 2. Paved surface #2: | <u>Concrete Pavement</u> | <u>1,258 SF</u> |
| 3. Paved surface #3: | <u></u>                  | <u></u>         |
|                      | Total Area:              | <u>6,258 SF</u> |



## **APA Materials Management Plan**

### **SECTION 1 – FACILITY AND PROPERTY INFORMATION**

#### **C. Site Map**

Attach a site map of the facility and label it as: "Attachment #1".

The following is a list of items that, if applicable to the facility, should be included on the site map:

- Property boundary
- Outlines of buildings, accessory buildings or other storage structures, including all paved surfaces
- Stormwater structures, such as catch basins, yard-drains, swales, detention basins, etc.
- Location of fueling stations, pump islands, and any other oil or petroleum dispensing point, etc.
- Location of hazardous material loading and unloading areas
- Location of wastewater disposal systems such as sewer lines or septic systems
- Location of waste storage and disposal areas including dumpsters, waste oil storage tanks, and other hazardous waste or material waste storage containers
- Location of liquid storage areas including underground storage tanks, above ground storage tanks, and their filling points as well as their discharging or distribution lines
- Location of any other outdoor structures or materials processing service areas that may impact groundwater or have materials, especially hazardous materials exposed to the weather.

Page 3





## **APA Materials Management Plan**

### **SECTION 1 – FACILITY AND PROPERTY INFORMATION**

#### **D. Building Floor Plan/Facility Operations**

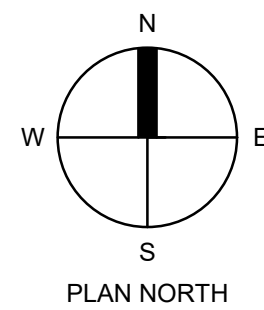
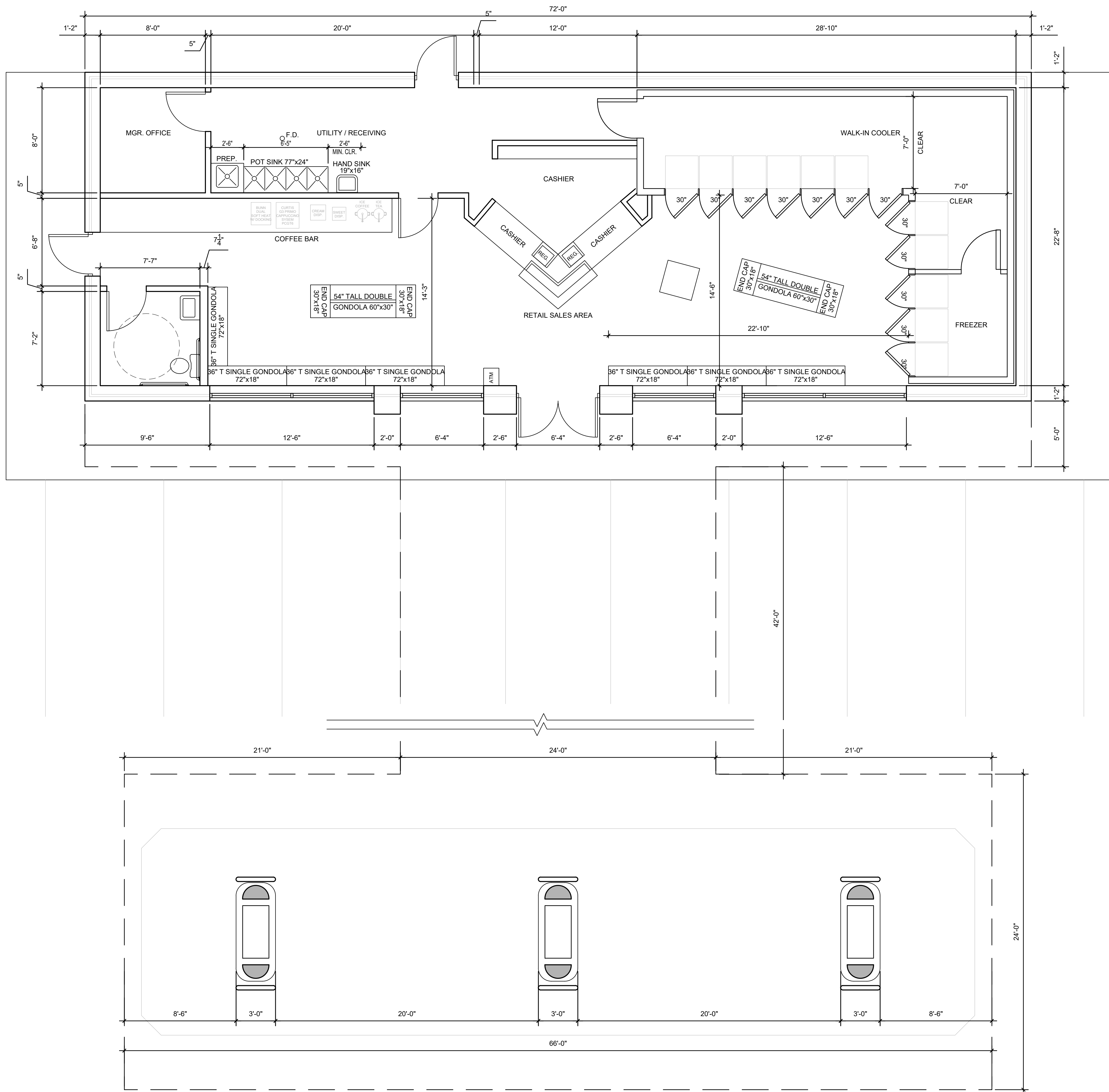
Attach a building plan or diagram showing the floor plan of the facility and label it as: "Attachment #2".

The following is a list of items that, if applicable to the facility, should be included on the building floor plan or diagram:

- Hazardous materials and hazardous waste storage areas
- Hazardous materials and hazardous waste transfer, handling, and processing areas
- Waste water generation areas, collection lines, and disposal areas including floor-drains, sinks, sewer-line or septic-system connections
- Hazardous materials delivery routes, and hazardous waste transport through the site
- Designated loading and unloading areas, tank filling operations, and holding areas
- Location of vehicle and equipment maintenance and cleaning areas
- Location of roof areas that may be subject to chemical exhaust or drippage (do not include heating/ventilation/air-conditioning (HVAC) condensate)

Note: For plans with less complexity, the site map and building floor plan may be combined into one attachment; label it as: "Attachment #1 & #2".





Revisions  
**ISSUE LOG**  
THIS SHEET WAS NOT INCLUDED IN THE PRELIMINARY SUBMISSION  
INDICATED NO REVISIONS WERE MADE TO THIS SHEET

PROGRESS PRINT 14 OCT. 2020

REVISE CANOPY SIZE 1 DEC 2020

CITY REVIEW COMMENTS 9 FEB 2021



ARCHITECTURE AND PLANNING  
COMMERCIAL • MEDICAL • RESIDENTIAL • INDUSTRIAL

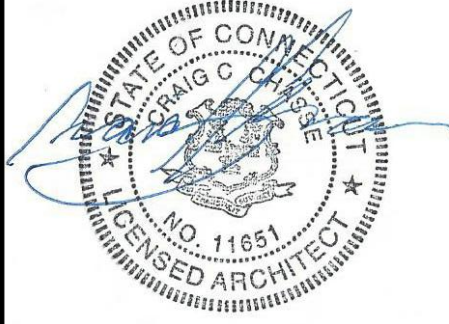
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This drawing is the property of the architect for the  
Owner of this project at this site, and is not to be  
used for any other purpose, location, or owner,  
without written consent of the Architect.

STAMP:



CONSULTANT:

**Daily Mart  
Fueling Station**  
551 Farmington Ave  
Bristol, CT 06010

SHEET TITLE:

**SCHEMATIC  
FLOOR PLAN  
& ELEVATIONS**

Date: 17 JULY 2020

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

Drawn: CCC

Checked: CCC

**SK1.1**

Project No.: 20005

CAD:

## APA Materials Management Plan

### SECTION 2 – TABLES

#### A. Hazardous Material Inventory

Date of Inventory: 04/15/2025

Provide an inventory of all hazardous materials that could potentially pollute ground-water. List hazardous materials that are handled or stored on site including: raw ("new") materials; waste materials; and other materials (i.e. used oil filters, used absorbents, etc.).

| Hazardous Material Type | Purpose / Description           | Location                       | Container Type                    | Container Size | Maximum Quantity Stored |
|-------------------------|---------------------------------|--------------------------------|-----------------------------------|----------------|-------------------------|
| Gasoline                | Fuel for Vehicles - Retail Sale | Underground Storage Tank (UST) | Double-Walled Fiberglass Clad UST | 12,000 gallons | 12,000 gallons          |
| Gasoline                | Fuel for Vehicles - Retail Sale | Underground Storage Tank (UST) | Double-Walled Fiberglass Clad UST | 12,000 gallons | 12,000 gallons          |
|                         |                                 |                                |                                   |                |                         |
|                         |                                 |                                |                                   |                |                         |
|                         |                                 |                                |                                   |                |                         |
|                         |                                 |                                |                                   |                |                         |
|                         |                                 |                                |                                   |                |                         |
|                         |                                 |                                |                                   |                |                         |



## APA Materials Management Plan

### SECTION 2 – TABLES

#### B. Waste and Wastewater Inventory

Date of Inventory: 04/15/2025

Provide a description of all types and volumes of hazardous and solid wastes and wastewaters generated, and a description of how wastes are handled, stored and disposed.

| Waste and Wastewater                  | Purpose / Description | Location                                 | Quantity Stored / Generated | Disposal Method                                    |
|---------------------------------------|-----------------------|------------------------------------------|-----------------------------|----------------------------------------------------|
| Waste gasoline and water in absorbent | Waste from spills     | 24-gallon double-walled container stored | Less than 20 gallons.       | Pickup within 2-3 days of call. All in solid form. |
|                                       |                       |                                          |                             |                                                    |
|                                       |                       |                                          |                             |                                                    |
|                                       |                       |                                          |                             |                                                    |
|                                       |                       |                                          |                             |                                                    |
|                                       |                       |                                          |                             |                                                    |
|                                       |                       |                                          |                             |                                                    |
|                                       |                       |                                          |                             |                                                    |

## APA Materials Management Plan

### SECTION 2 – TABLES

#### C. Potential Pollution Sources and Protection Measures

Date Completed: 04/15/2025

Provide a description of measures and controls used to prevent and abate any releases or spills which could cause pollution of the aquifer including design structures and controls, procedures, good housekeeping and preventive maintenance.

| Potential Pollution Source               | Control/Protection Measures                                                                   | Future Preventive Practices |
|------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------|
| <b>Overfill of an UST</b>                | High level alarms and shutoffs. Absorbents to contain a spill and booms trap/stop liquid flow |                             |
| Spill during vehicle fueling by customer | <b>Absorbents</b>                                                                             |                             |
| <b>All of the above</b>                  |                                                                                               |                             |
| Tank leakage/Line leakage of product     | Automatic Tank Monitoring (ATG) 24/7/365. The ATG is alarmed.                                 |                             |
|                                          |                                                                                               |                             |
|                                          |                                                                                               |                             |
|                                          |                                                                                               |                             |
|                                          |                                                                                               |                             |
|                                          |                                                                                               |                             |
|                                          |                                                                                               |                             |
|                                          |                                                                                               |                             |



## APA Materials Management Plan

### SECTION 2 – TABLES

#### **D. List of Significant (greater than 5 Gallons) Spills and Leaks**

Document any significant spill or leak and any response and correction measures taken. Call DEEP Waste Management Bureau at 860-424-3372 for questions about pollution potential of spilled materials and proper disposal of spilled materials or wastes.

| Date       | Spill       | Leak | Location | Description      |          |        |        | Response Procedures | Corrective Measures Taken |
|------------|-------------|------|----------|------------------|----------|--------|--------|---------------------|---------------------------|
| (MM/DD/YY) | (check one) |      |          | Type of Material | Quantity | Source | Reason |                     |                           |
|            |             |      |          |                  |          |        |        |                     |                           |
|            |             |      |          |                  |          |        |        |                     |                           |

| Date       | Spill       |  | Location | Description      |          |        |        | Response Procedures | Corrective Measures Taken |
|------------|-------------|--|----------|------------------|----------|--------|--------|---------------------|---------------------------|
| (MM/DD/YY) | (check one) |  |          | Type of Material | Quantity | Source | Reason |                     |                           |
|            |             |  |          |                  |          |        |        |                     |                           |
|            |             |  |          |                  |          |        |        |                     |                           |
|            |             |  |          |                  |          |        |        |                     |                           |

| Date       | Spill       |  | Location | Description      |          |        |        | Response Procedures | Corrective Measures Taken |
|------------|-------------|--|----------|------------------|----------|--------|--------|---------------------|---------------------------|
| (MM/DD/YY) | (check one) |  |          | Type of Material | Quantity | Source | Reason |                     |                           |
|            |             |  |          |                  |          |        |        |                     |                           |
|            |             |  |          |                  |          |        |        |                     |                           |
|            |             |  |          |                  |          |        |        |                     |                           |

## APA Materials Management Plan

### SECTION 2 – TABLES

#### E. Inspections

Identify high-risk activities and critical areas of the facility that could pollute the aquifer and require regular or special inspection including: storage areas, loading areas, drains, containment areas, waste areas, and any other areas of concern. The areas identified should be inspected for evidence of leaks/spills, integrity/condition, and maintenance and housekeeping. Inspection reports shall be kept on file with this MMP.

| Area to be Inspected                       | Inspection Schedule | Checked for leaks, conditions, maintenance                  | Problems? |   | If yes, describe action taken            | Date of Last Inspection |
|--------------------------------------------|---------------------|-------------------------------------------------------------|-----------|---|------------------------------------------|-------------------------|
|                                            |                     |                                                             | Y         | N |                                          |                         |
| Paved gas station area                     | Daily               |                                                             | 0         | X | Grooves in concrete cleaned if necessary | 06/15/2021              |
| All spill buckets if any liquid            | Daily in morning    | Liquid removed and added to waste container with absorbent. | 0         | X |                                          | 06/15/2021              |
| Spill kilt in order                        | Daily               |                                                             | 0         | X |                                          | 06/15/2021              |
| All hoses, nozzles, and dispensers checked | Daily               |                                                             | 0         | X | Supplies ordered as needed               | 06/15/2021              |
| Closest catch basin                        |                     |                                                             | 0         | X |                                          | 06/15/2021              |
|                                            |                     |                                                             |           |   |                                          |                         |
|                                            |                     |                                                             |           |   |                                          |                         |
|                                            |                     |                                                             |           |   |                                          |                         |
|                                            |                     |                                                             |           |   |                                          |                         |
|                                            |                     |                                                             |           |   |                                          |                         |

## APA Materials Management Plan

### **SECTION 3 - EMERGENCY RESPONSE PLAN**

Provide an Emergency Response Plan. You may reference any Spill Prevention Countermeasure Control Plan or other Spill Plan that you have as long as such plan sufficiently addresses the items listed below. The following information shall be included:

#### **A. Spill Response Procedures**

1. Identify where spill response equipment\* or materials are located at your facility:

Absorbents such as cat litter and absorbent brooms/socks are in the spill response kit.

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2. Indicate how a spill will be evaluated to determine an appropriate response.

Operators have been trained to use absorbent for spills. Location has a coordinator with experience and expertise in all aspects of gas station operations.

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3. Indicate the type of spill response equipment that your facility will use to properly contain a spill as close to its source as possible.

Facility is stocked with absorbent and replaced from store. Cat litter or a professional cleanup/disposal company.

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4. Indicate how all waste material is disposed of, including used cloths and absorbents.

A cleanup/disposal company is under contract with Daily Mart to respond immediately regarding a spill.

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## APA Materials Management Plan

### SECTION 3 - EMERGENCY RESPONSE PLAN

5. Indicate how the facility will re-stock its spill response equipment (i.e. absorbents)

Cat litter and absorbents socks/brooms are stored in the spill kit, which is stored in a closed barrel and would be replaced after used during an incident.

6. Describe the process that will be used to ensure the facility has spill response equipment that is always readily available and functioning properly.

Supplies under contract with Daily Mart and will immediately replenish appropriate used spill response materials upon a phone call.

In case of a health hazard, fire, or explosion potential:

1. Call 911
2. Call DEEP Oil and Chemical Spills Unit at 860-424-3338 immediately If the spill is large or threatens ground-water.
3. Any questions on pollution potential of spilled materials and proper disposal of spilled materials or wastes should be directed to DEEP Waste Management Bureau at 860-424-3372.

\*Emergency spill kits should include material such as spill dams; absorbent socks, pads, mats, and pillows; "pigs", dikes, barriers, and berms.

## APA Materials Management Plan

### SECTION 4 - EMPLOYEE TRAINING

It is the responsibility of the facility operator to ensure that all employees are properly trained in materials management. All employees shall be trained annually and new hires shall be trained within thirty-days of starting working. Training logs shall be kept on file with the MMP.

Training Date: 04-25-2025

Trainer Name/Title: Babar Zardad (Pres.)

Topics Covered: ( all applicable)

- Purpose and requirements of the MMP
- Employee responsibilities
- Facility site plan and location of all hazardous materials
- Proper waste collection and disposal procedures
- Spill prevention, response procedures, and use of spill equipment
- Good housekeeping practices and preventive maintenance
- Reporting procedures
- Other measures and controls

Employees in attendance:

| PRINTED NAME  | SIGNATURE     |
|---------------|---------------|
| Babar Zardad  | Babar Zardad  |
| Munawar Aftab | Munawar Aftab |
| Tehsil Rashid | Tehsil Rashid |
|               |               |
|               |               |
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Comments:

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## APA Materials Management Plan

### **SECTION 5 - RECORD KEEPING SYSTEM - ACCOUNTING AND TRACKING OF MATERIALS**

Identify how materials are tracked and how abnormal losses are accounted for:

1. Maintain product Material Safety Data Sheets (MSDS):

**Material Safety Data Sheet available for gasoline and motor oil.**

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2. Maintain hazardous waste manifests:
- 
- 

3. Ensure materials and waste containers are properly labeled:

**The waste barrel is properly labeled.**

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4. Mark purchase date on materials:

**N/A**

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5. Control access to materials that are hazardous:

**N/A**

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6. Maintenance of Spill Logs:

**Maintained by fuel specialist.**

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7. Other:

**N/A**

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## APA Materials Management Plan

### SECTION 6 - MATERIALS MANAGEMENT PLAN IMPLEMENTATION

#### **A. Contact Information:**

Identify the person(s) responsible for implementing the MMP.

1. Name of primary contact person: Babar Zardad Title: President  
Company: Daily Mart, Inc.  
Address: 551 Farmington Ave City: Bristol State: CT Zip Code: 06010  
Telephone No.: 860-306-3136 E-Mail: bzardad@gmail.com (or) dailymartshell@gmail.com

2. Name of secondary contact person: \_\_\_\_\_ Title: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Telephone No.: \_\_\_\_\_ E-Mail: \_\_\_\_\_

---

#### **B. Emergency Contact/Spill Coordinator Information:**

Identify the emergency contact information for the person identified as the "spill coordinator" for the facility who will be advised immediately of all spills, regardless of the quantity.

1. Name of spill coordinator: Babar Zardad  
Telephone No.: 860-306-3136  
E-Mail: bzardad@gmail.com (or) dailymartshell@gmail.com

2. List additional emergency contact telephone numbers:

DEEP Emergency Line: 860-424-3333 OR 860-424-3338 (to report spills)

Bristol Water Department Emergency Line: 860-583-6504

Other emergency contact telephone numbers:

Emergency Contact: \_\_\_\_\_ Telephone No.: \_\_\_\_\_

Emergency Contact: \_\_\_\_\_ Telephone No.: \_\_\_\_\_

Emergency Contact: \_\_\_\_\_ Telephone No.: \_\_\_\_\_

## **APA Materials Management Plan**

### **SECTION 7 - ADDITIONAL PROTECTION ACTIONS**

Use this section to list any other current measures, improvements, or modifications in practices, procedures, or structures that are needed to ensure compliance or to ease registration/permit requirements.

## APA Materials Management Plan

### SECTION 8 - CERTIFICATION

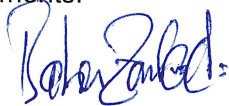
You shall certify the MMP by signing and dating it. A "Connecticut Licensed Professional Engineer" or "Certified Hazardous Materials Manager" may also have to certify the MMP, if such certification is required by the Bristol Aquifer Protection Agency. To obtain a list of consultants that are registered with the State of Connecticut, contact the Bureau of Water Protection and Land Reuse at 860-424-3018 and ask for the "Engineer of the Day".

Re-certification shall be required when there are substantial changes to the facility resulting in significant revisions to the MMP. An example of such a change would be the construction of a building addition that includes adding a new process to a registered regulated activity that was already existing at the facility. If you have any questions as to whether or not a change is "substantial", please contact the Bristol Land Use Office at 860-584-6225.

---

#### **Certification by Facility Owner/Operator**

"I certify that the Materials Management Plan (MMP) prepared for this site meets the criteria set forth in Sections 22a-354i-7(d) or 22a-354i-8(c) of the Regulations of Connecticut State Agencies. This certification is based on my review of the materials management plan for the site and an inspection of the site. I am aware that there are significant penalties for false statements in this certification, including the possibility of fine and imprisonment for knowingly making false statements."

→ 

Owner/Operator Signature

April 15th, 2025  
Date

Babur Zardad, President Daily Mart, Inc.  
Owner/Operator Name (printed or typed)

#### **Certification by Professional Engineer**

"I certify that, in my professional judgment, the Materials Management Plan (MMP) prepared for this site meets the criteria set forth in Sections 22a-354i-7(d) or 22a-354i-8(c) of the Regulations of Connecticut State Agencies. This certification is based on my review of the materials management plan for the site and an inspection of the site. I am aware that there are significant penalties for false statements in this certification, including the possibility of fine and imprisonment for knowingly making false statements."

\_\_\_\_\_  
P.E. Signature

\_\_\_\_\_  
P.E. Number and Seal

\_\_\_\_\_  
P.E. Name (printed or typed)

\_\_\_\_\_  
Date



# DAILY MART

## 551 FARMINGTON AVE

### BRISTOL, CT

#### DRAWING INDEX

| TITLE                    | SHEET NO. |
|--------------------------|-----------|
| COVER SHEET              | 1 OF 5    |
| SYSTEM LAYOUT SHEET      | 2 OF 5    |
| SYSTEM CALCULATION SHEET | 3 OF 5    |
| SYSTEM OVERLAY SHEET     | 4 OF 5    |
| 280HD DETAIL SHEET       | 5 OF 5    |

| PROJECT INFORMATION       |                                                                                                  |           |                            |     |
|---------------------------|--------------------------------------------------------------------------------------------------|-----------|----------------------------|-----|
| PROJECT NO.               | 22-0221                                                                                          |           |                            |     |
| CULTEC SALES REP.         | KEVIN GOODRICH<br>475-289-7075<br><a href="mailto:KGOODRICH@CULTEC.COM">KGOODRICH@CULTEC.COM</a> |           |                            |     |
| CULTEC PROJECT SUPERVISOR | JILL GORNEAU<br>203-973-7033<br><a href="mailto:JGORNEAU@CULTEC.COM">JGORNEAU@CULTEC.COM</a>     |           |                            |     |
| COMMENTS                  | REVISION                                                                                         | DATE      | COMMENT                    | BY  |
|                           | 00                                                                                               | 8-19-2023 | INITIAL SUBMITTAL DRAWINGS | GCH |
|                           |                                                                                                  |           |                            |     |
|                           |                                                                                                  |           |                            |     |
|                           |                                                                                                  |           |                            |     |



#### CULTEC, Inc.

Subsurface Stormwater Management Systems

P.O. Box 280  
878 Federal Road  
Brookfield, CT 06804  
[www.cultec.com](http://www.cultec.com)

PH: (203) 775-4416  
PH: (800) 4-CULTEC  
FX: (203) 775-1462  
[tech@cultec.com](mailto:tech@cultec.com)

NOTE: THESE SHOP DRAWINGS MAY CONTAIN COMPONENTS INCLUDING BUT NOT LIMITED TO: MANHOLES, CATCH BASINS, STORM PIPES AND FITTINGS, MANIFOLDS, CASTINGS AND OTHER NECESSARY APPURTENANCES THAT MAY NOT BE SUPPLIED BY CULTEC, INC. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND/OR SUPPLIER TO CONFIRM WITH CULTEC THE MATERIALS PROVIDED.

#### BEFORE YOU BEGIN - REQUIRED MATERIALS AND EQUIPMENT

1. PROPER GEOTECHNICAL SOIL EVALUATION BY A QUALIFIED ENGINEER OR SOIL SCIENTIST TO DETERMINE SUITABILITY OF STRUCTURAL INSTALLATION
2. OSHA COMPLIANCE
3. CULTEC WARNING TAPE, OR EQUIVALENT
4. ASSURANCES FROM LOCAL UTILITIES THAT NO UNDERGROUND GAS, ELECTRICAL OR OTHER POTENTIALLY DANGEROUS PIPELINES OR CONDUITS ARE ALREADY BURIED AT THE SITE
5. ACCEPTABLE 1-2 INCH (25 - 51 mm) WASHED, CRUSHED STONE AS DETAILED IN CULTEC'S INSTALLATION INSTRUCTIONS. CLEANLINESS OF STONE TO BE VERIFIED BY ENGINEER.
6. ACCEPTABLE FILL MATERIAL AS SHOWN IN CULTEC'S INSTALLATION INSTRUCTIONS.
7. ALL CULTEC CHAMBERS AND ACCESSORIES AS SPECIFIED IN THE ENGINEER'S PLANS INCLUDING CULTEC NO. 410 NON-WOVEN GEOTEXTILE, CULTEC STORMFILTER AND CULTEC NO. 4800 WOVEN GEOTEXTILE, WHERE APPLICABLE.
8. RECIPROCATING SAW OR ROUTER
9. STONE BUCKET
10. STONE CONVEYOR AND/OR TRACKED EXCAVATOR
11. TRANSIT OR LASER LEVEL MEASURING DEVICE
12. COMPACTION EQUIPMENT WITH MAXIMUM GROSS VEHICLE WEIGHT OF 12,000 LBS (5,440 KGS), VIBRATORY ROLLERS MAY ONLY BE USED ON THE STONE BASE PRIOR TO THE INSTALLATION OF CHAMBERS
13. **CHECK CULTEC CHAMBERS FOR DAMAGE PRIOR TO INSTALLATION. DO NOT USE DAMAGED CULTEC CHAMBERS. CONTACT YOUR SUPPLIER IMMEDIATELY TO REPORT DAMAGE OR PACKING-LIST DISCREPANCIES.**

#### REQUIREMENTS FOR CULTEC CHAMBER SYSTEM INSTALLATIONS

1. INSTALLING CONTRACTORS ARE EXPECTED TO COMPREHEND AND USE THE MOST CURRENT INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING A SYSTEM INSTALLATION. IF THERE IS ANY QUESTION AS TO WHETHER YOU POSSESS THE MOST CURRENT INSTRUCTIONS, CONTACT CULTEC AT (203) 775-4416 OR VISIT [WWW.CULTEC.COM](http://WWW.CULTEC.COM).
2. CONTACT CULTEC AT LEAST THIRTY DAYS PRIOR TO SYSTEM INSTALLATION TO ARRANGE FOR A PRE-CONSTRUCTION MEETING.
3. ALL CULTEC SYSTEM DESIGNS MUST BE CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER.
4. USE CULTEC INSTALLATION INSTRUCTIONS AS A GUIDELINE ONLY FOR MINIMUM/MAXIMUM REQUIREMENTS. ACTUAL DESIGN MAY VARY. REFER TO APPROVED CONSTRUCTION DRAWINGS FOR JOB-SPECIFIC DETAILS. BE SURE TO FOLLOW THE ENGINEER'S DRAWINGS AS YOUR PRIMARY GUIDE.
5. THE FOUNDATION STONE SHALL BE LEVEL AND COMPACTED PRIOR TO CHAMBER INSTALLATION.
6. OVERLAPPING RIB CONNECTIONS OF CHAMBERS SHALL BE FULLY SHOULDERED PRIOR TO STONE PLACEMENT.
7. CENTER-TO-CENTER SPACING SHALL BE CHECKED AND MAINTAINED THROUGHOUT INSTALLATION PROCESS.
8. ANY DISCREPANCIES WITH THE SYSTEM SUB-GRADE SOIL'S BEARING CAPACITY MUST BE REPORTED TO THE DESIGN ENGINEER.
9. NON-WOVEN GEOTEXTILE MUST BE USED AS SPECIFIED IN THE ENGINEER'S DRAWINGS.
10. CULTEC REQUIRES THE CONTRACTOR TO REFER TO CULTEC'S INSTALLATION INSTRUCTIONS CONCERNING VEHICULAR TRAFFIC. RESPONSIBILITY FOR PREVENTING VEHICLES THAT EXCEED CULTEC'S REQUIREMENTS FROM TRAVELING ACROSS OR PARKING OVER THE CHAMBER SYSTEM LIES SOLELY WITH THE CONTRACTOR THROUGHOUT THE ENTIRE SITE CONSTRUCTION PROCESS. THE PLACEMENT OF WARNING TAPE, TEMPORARY FENCING, AND/OR APPROPRIATELY LOCATED SIGNS IS HIGHLY RECOMMENDED. IMPRINTED WARNING TAPE IS AVAILABLE FROM CULTEC. FOR ACCEPTABLE VEHICLE LOAD INFORMATION, REFER TO CULTEC INSTALLATION INSTRUCTIONS.
11. TRAFFIC OF INSTALLATION EQUIPMENT OR OTHER VEHICULAR TRAFFIC OVER TOP OF THE CULTEC STORMWATER SYSTEM IS STRICTLY RESTRICTED AND PROHIBITED UNTIL SATISFACTORY COVER AND COMPACTION IS ACHIEVED ACCORDING TO CULTEC'S MANUFACTURER INSTALLATION INSTRUCTIONS.
12. EROSION AND SEDIMENT-CONTROL MEASURES MUST MEET LOCAL CODES AND THE DESIGN ENGINEER'S SPECIFICATIONS THROUGHOUT THE ENTIRE SITE CONSTRUCTION PROCESS.
13. CULTEC SYSTEMS MUST BE DESIGNED AND INSTALLED IN ACCORDANCE WITH CULTEC'S MINIMUM REQUIREMENTS. FAILURE TO DO SO WILL VOID THE LIMITED WARRANTY.
14. CONTACT CULTEC, INC. AT 203-775-4416 WITH ANY QUESTIONS OR FURTHER CLARIFICATION OF REQUIREMENTS.
15. **PLACEMENT OF EMBEDMENT STONE MUST BE IN ACCORDANCE WITH CULTEC'S INSTALLATION INSTRUCTIONS. STONE COLUMN HEIGHT DEFERENTIAL MUST NEVER EXCEED 12" (305 mm) BETWEEN CHAMBER ROWS. ADJACENT CHAMBERS OR STONE PERIMETER. STONE MUST BE PLACED OVER THE CROWN OF THE CHAMBERS TO ANCHOR THE CHAMBERS IN PLACE AND MAINTAIN ROW SPACING.**
16. **EMBEDMENT STONE MUST ONLY BE PLACED BY EXCAVATOR OR TELESOPING CONVEYOR BOOM. PLACEMENT OF EMBEDMENT STONE WITH BULLDOZER IS NOT AN ACCEPTABLE METHOD OF INSTALLATION AND MAY CAUSE DAMAGE TO THE CHAMBERS. ANY CHAMBERS DAMAGED USING AN UNACCEPTABLE METHOD OF BACKFILL ARE NOT COVERED UNDER THE CULTEC LIMITED WARRANTY.**

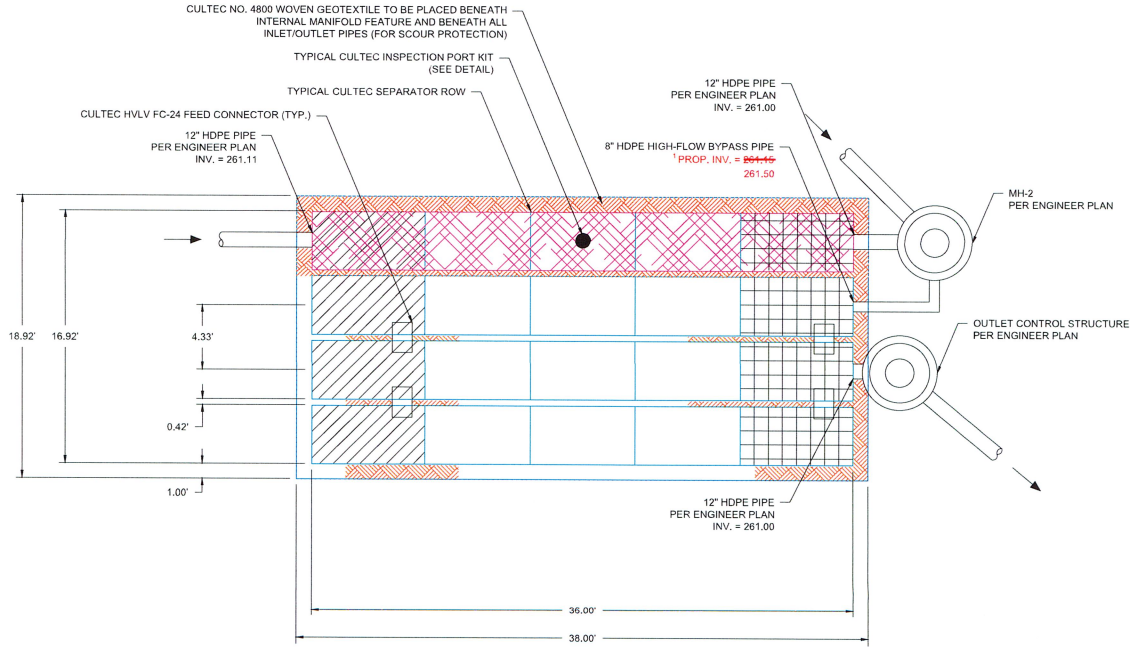
THIS DRAWING WAS PREPARED TO SUPPORT THE PROJECT ENGINEER OF RECORD FOR THE PROPOSED SYSTEM. IT IS THE ULTIMATE RESPONSIBILITY OF THE PROJECT ENGINEER OF RECORD TO ENSURE THAT THE CULTEC SYSTEMS DESIGN IS IN FULL COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. IT IS THE PROJECT ENGINEER OF RECORD'S RESPONSIBILITY TO ENSURE THAT THE CULTEC PRODUCTS ARE DESIGNED IN ACCORDANCE WITH CULTEC'S MINIMUM REQUIREMENTS. CULTEC DOES NOT APPROVE PLANS, SIZING, OR SYSTEM DESIGNS.

| PROPOSED STORMWATER MANAGEMENT SYSTEM ELEVATIONS                      |                          |
|-----------------------------------------------------------------------|--------------------------|
| (TO BE APPROVED BY ENGINEER)                                          |                          |
| *ENGINEER TO CONFIRM MINIMUM AND MAXIMUM BURIAL REQUIREMENTS ARE MET. |                          |
| MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT OR UNPAVED)                  | 275.21                   |
| MINIMUM ALLOWABLE GRADE (UNPAVED TRAFFIC)                             | 264.54                   |
| MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)                   | 264.38                   |
| MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)                       | 264.38                   |
| TOP OF STONE ELEVATION                                                | 263.71                   |
| TOP OF CHAMBER ELEVATION                                              | 263.21                   |
| 8" HIGH-FLOW BYPASS PIPE INVERT                                       | <del>261.15</del> 261.50 |
| 12" WEST INLET PIPE INVERT                                            | 261.11                   |
| OUTLET PIPE INVERT                                                    | 261.00                   |
| 12" EAST INLET PIPE INVERT                                            | 261.00                   |
| BOTTOM OF CHAMBER ELEVATION                                           | 261.00                   |
| BOTTOM OF STONE ELEVATION                                             | 260.50                   |
| CULTEC STORMWATER MANAGEMENT SYSTEM SUMMARY                           |                          |
| TOTAL STORAGE PROVIDED (CF)                                           | 1,449                    |
| % STONE POROSITY                                                      | 40                       |
| SYSTEM AREA (SF)                                                      | 718.83                   |
| DEPTH OF EMBEDMENT STONE (IN)                                         | 6                        |
| DEPTH OF BEDDING STONE (IN)                                           | 6                        |
| STONE PERIMETER (IN)                                                  | 12                       |
| SPACING BETWEEN CHAMBER ROWS (IN)                                     | 5                        |

NOTE: ALL EXTERNAL SYSTEM STRUCTURES, INLET/OUTLET PIPES AND PROPOSED ELEVATIONS MUST BE DESIGNED AND APPROVED BY THE ENGINEER OF RECORD. ALL PROPOSED SYSTEM ELEVATIONS PROVIDED MUST BE VERIFIED BY THE ENGINEER OF RECORD AND THE ENGINEER OF RECORD MUST ENSURE CHAMBER BURIAL REQUIREMENTS ARE MET

| MATERIALS LIST SUPPLIED BY CULTEC     |     |             |
|---------------------------------------|-----|-------------|
| CULTEC RECHARGER 280SHD STARTER       | 4   | PIECES      |
| CULTEC RECHARGER 280HD INTERMEDIATE   | 12  | PIECES      |
| CULTEC RECHARGER 280HD END            | 4   | PIECES      |
| CULTEC HVLV FC-24 FEED CONNECTORS     | 4   | PIECES      |
| CULTEC NO. 410 NON-WOVEN GEOTEXTILE   | 268 | SQ. YARDS   |
| CULTEC NO. 4800 WOVEN GEOTEXTILE      | 88  | LINEAL FEET |
| CULTEC INSPECTION PORT KIT            | 1   | PIECES      |
| MATERIALS LIST NOT SUPPLIED BY CULTEC |     |             |
| 1-2 INCH WASHED, CRUSHED STONE        | 53  | CUBIC YARDS |
| 8 OZ. NON-WOVEN GEOTEXTILE            | N/A | SQ. YARDS   |
| 30 MIL. PVC THERMOPLASTIC LINER       | N/A | SQ. YARDS   |

| CULTEC RECHARGER® 280HD LEGEND                                                      |                                     |
|-------------------------------------------------------------------------------------|-------------------------------------|
|  | CULTEC RECHARGER 280SHD STARTER     |
|  | CULTEC RECHARGER 280HD INTERMEDIATE |
|  | CULTEC RECHARGER 280HD END          |
|  | CULTEC HVLV FC-24 FEED CONNECTORS   |
|  | CULTEC SEPARATOR ROW                |
|  | CULTEC NO. 4800 WOVEN GEOTEXTILE    |
|  | STONE BORDER                        |



1 SYSTEM LAYOUT DETAIL  
NTS

| PROPOSED SYSTEM ALTERATION TABLE |                                                       |
|----------------------------------|-------------------------------------------------------|
| 1                                | PROPOSED PIPE INVERT FOR PROPER CONNECTION TO CHAMBER |

| CULTEC STORMWATER CHAMBER                       |                     | PROJECT NO: 22-0221.00                                                                                                                                                                             |        | DATE: 8/10/2023 |        |
|-------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------|--------|
| DAILY MART<br>551 FARMINGTON AVE<br>BRISTOL, CT | SYSTEM LAYOUT SHEET | DESIGNED BY:                                                                                                                                                                                       | GCH    | CHECKED BY:     | JG     |
|                                                 |                     | SCALE:                                                                                                                                                                                             | N.T.S. | SHEET NO:       | 2 OF 5 |
|                                                 |                     | CULTEC, Inc.<br>Subsurface Stormwater Management Systems<br>P.O. Box 280<br>878 Federal Road<br>Bristol, CT 06004<br>PH: (203) 775-4416<br>FX: (203) 775-1462<br>info@cultec.com<br>www.cultec.com |        |                 |        |



CULTEC, Inc.  
Subsurface Stormwater Management Systems  
P.O. Box 280  
878 Federal Road  
Bristol, CT 06004  
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FX: (203) 775-1462  
info@cultec.com  
www.cultec.com

1





## CULTEC Recharger 280HD Stormwater System Calculations

### Consulting Engineer:

Louisa Engineering  
1000  
1000  
1000

### Calculations Performed By:

Patrick Blocker  
Cultec, Inc.  
878 Federal Rd.  
Bristol, CT 06010  
Tel: 203-775-4416  
Fax: 203-775-5867

### Project Information:

Daily Mart  
551 Farmington Avenue  
Bristol, CT

### Date:

9/10/23

### Project Number:

22-0221.00



## CULTEC Recharger 280HD Stormwater Incremental Storage

### Date:

August 10, 2023

### Project Information

Daily Mart  
551 Farmington Avenue  
Bristol, CT

### Project Number:

22-0221.00

Base of Stone Elevation=

0.00

### System Information

#### Rectangular End Inputs

No. of Rows=

4

No. of Chambers/Row=

5

#### Given:

No. 4800 Fabric For Internal External Reinforcing

Number of Inlet/Outlet Pipes (Do Not Include Separator Rows)

Stone Base

Spacing Between Rows

No. of HVLV FC-24 Feed Connectors

No. CULTEC Inspection Ports

Stone Porosity

Stone Border Width

Other Parameters:

Length of Separator Row

Type of Lining

Sand Filter Depth (If Applicable)

Sloped Sides (1:1) (If Applicable)

20 feet  
2  
6 inches  
3 inches  
4 units  
1 unit  
42%  
3 feet  
20 feet  
None  
feet

152.4 mm  
152.4 mm  
3.05 m  
10.973 m  
0.000 m

Discount stone base from total storage provided (If Applicable)

Discount stone above from total storage provided (If Applicable)

Maximum Finished Grade Elevation

Minimum Finished Grade Elevation (Unpaved)

Minimum Finished Grade Elevation (Base/Finish)

Minimum Finished Grade Elevation (Top/Right)

Top of Stone Elevation

Top of Chamber Elevation

Bottom of Chamber Elevation

Bottom of Stone Elevation

22.12  
26.42  
25.42  
22.12  
22.12  
26.5  
25.38

#### Assumptions

| Model Name                    | Chamber Height | Design Unit | Chamber Width | Chamber Spacing | Design Unit | Chamber Volume per Linear Foot | Design Unit | Installed Chamber Length |
|-------------------------------|----------------|-------------|---------------|-----------------|-------------|--------------------------------|-------------|--------------------------|
|                               | inches         | feet        | inches        | inches          | feet        | cu. ft./ft.                    | cu. ft./ft. | feet                     |
| Recharger 280 HD Stand Alone  | English        | 26.5        | 3.21          | 47              | 3           | 4.33                           | 6.08        | 9.21                     |
|                               | Metric         | 673         | 0.98          | 1194            | 127         | 1.32                           | 0.36        | 0.86                     |
| Recharger 280 HD Intermediate | English        | 24.5        | 3.21          | 47              | 3           | 4.33                           | 6.08        | 9.21                     |
|                               | Metric         | 619         | 0.86          | 1194            | 127         | 1.32                           | 0.36        | 0.86                     |
| Recharger 280 HD Starter      | English        | 24.5        | 3.21          | 47              | 3           | 4.33                           | 6.08        | 9.21                     |
|                               | Metric         | 619         | 0.86          | 1194            | 127         | 1.32                           | 0.36        | 0.86                     |
| Recharger 280 HD End          | English        | 26.5        | 3.21          | 47              | 3           | 4.33                           | 6.08        | 9.21                     |
|                               | Metric         | 673         | 0.86          | 1194            | 127         | 1.32                           | 0.36        | 0.86                     |
| HVLV FC-24 Feed Connectors    | English        | 12          | n/a           | 16              | n/a         | n/a                            | 0.91        | n/a                      |
|                               | Metric         | 305         | n/a           | 406             | n/a         | n/a                            | 0.09        | 0.12                     |

### Storage Provided within CULTEC Recharger 280HD Stormwater Chambers and HVLV FC-24 Feed Connectors - not including stone

|                                                                          |   |             |
|--------------------------------------------------------------------------|---|-------------|
| Number of Recharger 280 HD Stand Alone by design                         | = | 3 pcs       |
| Number of Recharger 280 HD Intermediates by design                       | = | 0 pcs       |
| Number of Recharger 280 HD Starters by design                            | = | 7 pcs       |
| Number of Recharger 280 HD Ends by design                                | = | 4 pcs       |
| Number of HVLV FC-24 Feed Connectors by design                           | = | 4 pcs       |
| Total Footage of Recharger 280HD chambers                                | = | 144.09 feet |
| Total Footage of HVLV FC-24 Feed Connectors                              | = | 1.67 feet   |
| Storage provided within Recharger 280HD chambers                         | = | 875.38 CF   |
| Storage within HVLV FC-24 Feed Connectors                                | = | 1.22 CF     |
| Total Storage within CULTEC Recharger 280HD chambers and feed connectors | = | 876.60 CF   |

### Storage Provided Within Inter CULTEC Stormwater System - including stone

|                                                                 |   |                |
|-----------------------------------------------------------------|---|----------------|
| Bed width                                                       | = | 15.92 feet     |
| Bed length                                                      | = | 34.69 feet     |
| Bed depth                                                       | = | 3.21 feet      |
| Total Area                                                      | = | 712.83 sq. ft. |
| Volume of Effective Excavation (not including additional cover) | = | 2366.26 CF     |
| Diameter of bed                                                 | = | 113.07 feet    |
| Total Storage within CULTEC chambers and feed connectors        | = | 877 CF         |
| Total Stone Required                                            | = | 1429 CF        |
| Storage provided within stone                                   | = | 571.28 CF      |
| Total Storage within CULTEC Stormwater System                   | = | 1449 CF        |

### CULTEC MATERIALS LIST

| Model #                                                        | Quantity | Unit of Measure | Quantity | Unit of Measure |
|----------------------------------------------------------------|----------|-----------------|----------|-----------------|
| Recharger 280 HD Stand Alone Heavy Duty                        | 3        | pcs             |          |                 |
| Recharger 280 HD Intermediate Heavy Duty                       | 0        | pcs             |          |                 |
| Recharger 280 HD End Heavy Duty                                | 4        | pcs             |          |                 |
| HVLV FC-24 Feed Connectors                                     | 4        | pcs             |          |                 |
| CULTEC No. 410 Non-Woven Geotextile                            | 268      | Sq. Yards       | 224      | sq. yd.         |
| CULTEC No. 410 Woven Geotextile 7.5' x 100' (2.29 m x 30.48 m) | 750      | Sq. Yards       | 27       | sq. yd.         |
| CULTEC Inspection Port Kit                                     | 1        | kit             |          |                 |
| Total Stone                                                    | 53       | cubic yards     | 40       | cubic yards     |

### SYSTEM STORAGE CALCULATION

### CULTEC Recharger 280HD Incremental Storage Volumes

| Height of System | Chamber Volume | HVLV FC-24 Feed Connector Volume | Stone Volume | Cumulative Storage Volume | Total Cumulative Storage Volume | Elevation |
|------------------|----------------|----------------------------------|--------------|---------------------------|---------------------------------|-----------|
| ft.              | in.            | ft.                              | in.          | ft.                       | in.                             | ft.       |
| 38.5             | 978            | 0.00                             | 0.00         | 0.00                      | 0.00                            | 38.5      |
| 37.5             | 953            | 0.00                             | 0.00         | 0.00                      | 0.00                            | 37.5      |
| 36.5             | 927            | 0.00                             | 0.00         | 0.00                      | 0.00                            | 36.5      |
| 35.5             | 902            | 0.00                             | 0.00         | 0.00                      | 0.00                            | 35.5      |
| 34.5             | 876            | 0.00                             | 0.00         | 0.00                      | 0.00                            | 34.5      |
| 33.5             | 851            | 0.00                             | 0.00         | 0.00                      | 0.00                            | 33.5      |
| 32.5             | 826            | 0.01                             | 0.00         | 0.00                      | 0.00                            | 32.5      |
| 32.0             | 813            | 2.59                             | 0.07         | 0.00                      | 0.00                            | 32.0      |
| 31.0             | 787            | 6.77                             | 0.19         | 0.00                      | 0.00                            | 31.0      |
| 30.0             | 762            | 14.40                            | 0.41         | 0.00                      | 0.00                            | 30.0      |
| 29.0             | 737            | 18.30                            | 0.55         | 0.00                      | 0.00                            | 29.0      |
| 28.0             | 711            | 22.90                            | 0.65         | 0.00                      | 0.00                            | 28.0      |
| 27.0             | 686            | 26.78                            | 0.73         | 0.00                      | 0.00                            | 27.0      |
| 26.0             | 660            | 28.08                            | 0.80         | 0.00                      | 0.00                            | 26.0      |
| 25.0             | 635            | 30.10                            | 0.85         | 0.00                      | 0.00                            | 25.0      |
| 24.0             | 610            | 31.82                            | 0.90         | 0.00                      | 0.00                            | 24.0      |
| 23.0             | 584            | 33.43                            | 0.95         | 0.00                      | 0.00                            | 23.0      |
| 22.0             | 559            | 34.70                            | 0.98         | 0.00                      | 0.00                            | 22.0      |
| 21.0             | 533            | 35.96                            | 1.02         | 0.00                      | 0.00                            | 21.0      |
| 20.0             | 508            | 37.07                            | 1.07         | 0.00                      | 0.00                            | 20.0      |
| 19.0             | 483            | 38.45                            | 1.09         | 0.00                      | 0.00                            | 19.0      |
| 18.0             | 457            | 39.02                            | 1.11         | 0.00                      | 0.00                            | 18.0      |
| 17.0             | 432            | 39.60                            | 1.12         | 0.00                      | 0.00                            | 17.0      |
| 16.0             | 406            | 40.18                            | 1.14         | 0.00                      | 0.00                            | 16.0      |
| 15.0             | 381            | 41.33                            | 1.17         | 0.00                      | 0.00                            | 15.0      |
| 14.0             | 356            | 42.05                            | 1.19         | 0.00                      | 0.00                            | 14.0      |
| 13.0             | 330            | 42.34                            | 1.20         | 0.00                      | 0.00                            | 13.0      |
| 12.0             | 305            | 43.92                            | 1.24         | 0.00                      | 0.00                            | 12.0      |
| 11.0             | 279            | 44.06                            | 1.25         | 0.00                      | 0.00                            | 11.0      |
| 10.0             | 254            | 44.35                            | 1.26         | 0.00                      | 0.00                            | 10.0      |
| 9.0              | 229            | 44.64                            | 1.26         | 0.00                      | 0.00                            | 9.0       |
| 8.0              | 203            | 44.93                            | 1.27         | 0.00                      | 0.00                            | 8.0       |
| 7.0              | 178            | 45.94                            | 1.33         | 0.00                      | 0.00                            | 7.0       |
| 6.0              | 152            | 0.00                             | 0.00         | 0.00                      | 0.00                            | 6.0       |
| 5.0              | 127            | 0.00                             | 0.00         | 0.00                      | 0.00                            | 5.0       |
| 4.0              | 102            | 0.00                             | 0.00         | 0.00                      | 0.00                            | 4.0       |
| 3.0              | 76             | 0.00                             | 0.00         | 0.00                      | 0.00                            | 3.0       |
| 2.0              | 51             | 0.00                             | 0.00         | 0.00                      | 0.00                            | 2.0       |
| 1.0              | 25             | 0.00                             | 0.00         | 0.00                      | 0.00                            | 1.0       |
| 0.0              | 0              | 0.00                             | 0.00         | 0.00                      | 0.00                            | 0.0       |

### SYSTEM STAGE-STORAGE TABLE

CULTEC Recharger 280HD Stormwater Chamber

PROJECT NO: 22-0221.00

DESIGNED BY: GCH

SCALE: N.T.S.

DATE: 8/10/2023

CHECKED BY: JG

SHEET NO: 3 OF 5

DAILY MART

551 FARMINGTON AVE

BRISTOL, CT

CULTEC, Inc.

878 Federal Road

Bristol, CT 06010

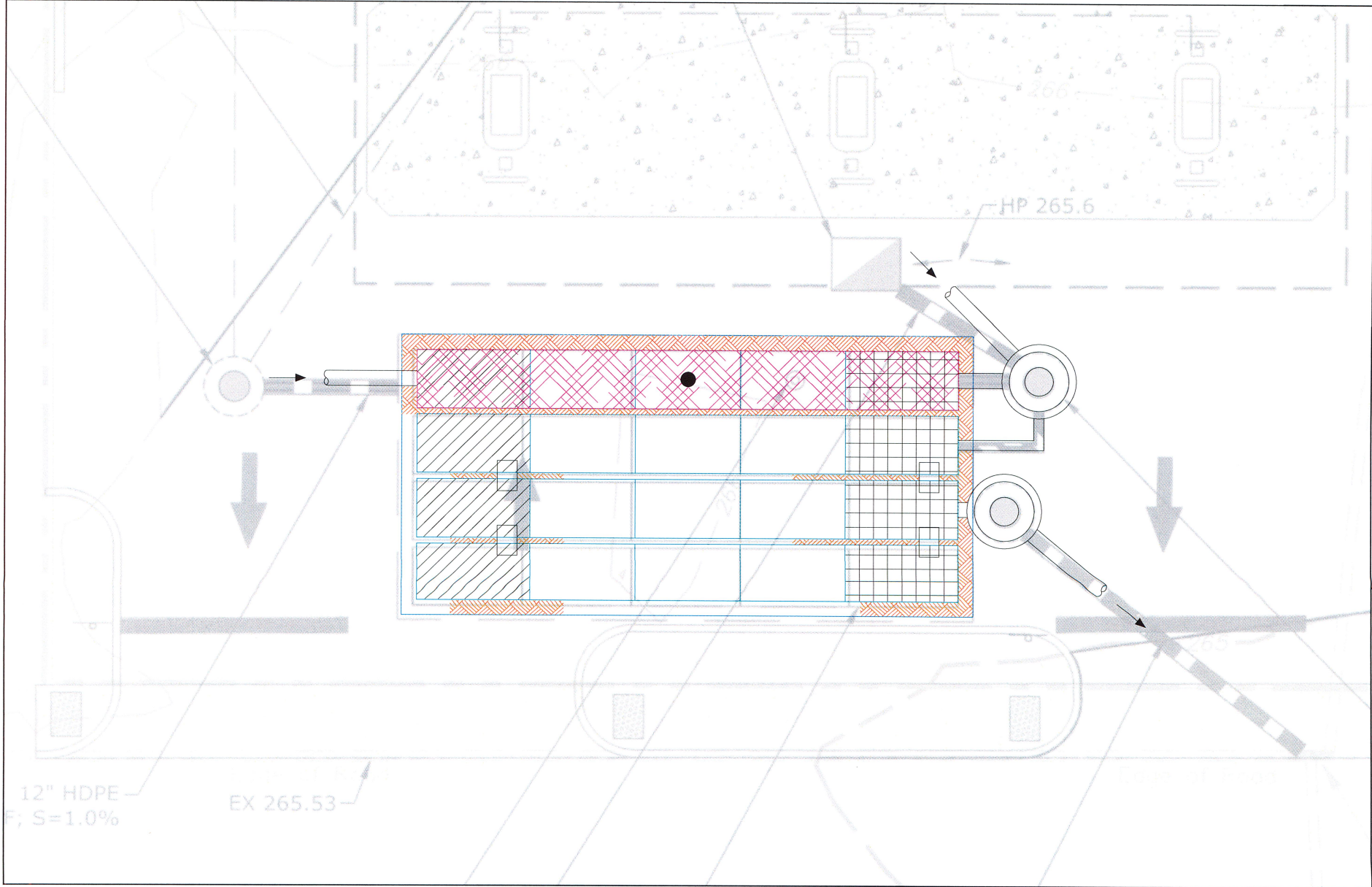
203-775-4416

203-775-5867

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info@cultec.com







**CULTEC, Inc.**  
 Subsidiary: Stormwater Management Systems  
 P.O. Box 280  
 878 Federal Road  
 Bristol, CT 06010  
 www.cultec.com  
 (860) 686-8004  
 tech@cultec.com

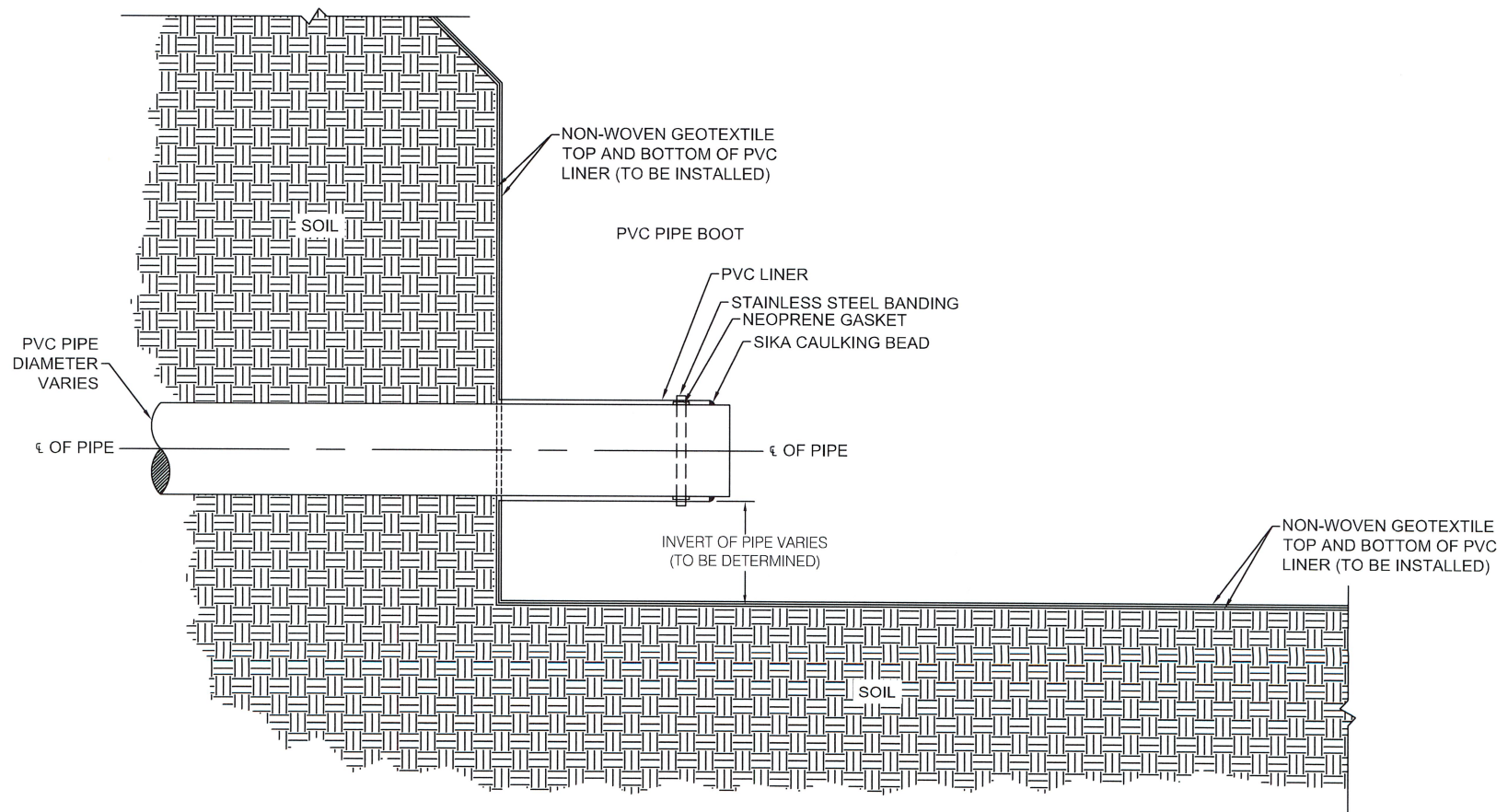
**DAILY MART**  
 551 FARMINGTON AVE  
 BRISTOL, CT  
 SYSTEM OVERLAY SHEET

**CULTEC STORMWATER CHAMBER**

|              |            |             |           |
|--------------|------------|-------------|-----------|
| PROJECT NO:  | 22-0221.00 | DATE:       | 8/10/2023 |
| DESIGNED BY: | GCH        | CHECKED BY: | JG        |
| SCALE:       | N.T.S.     | SHEET NO:   | 4 OF 5    |







## TYPICAL PIPE PENETRATION: POLY LINED CULTIC SYSTEM

DWN BY:

DATE:

JOB #:

SCALE: N.T.S.



6810 8 St NW Edmonton AB.





## Module 11: Registrations





### Aquifer Protection Area Registrations

As we learned in earlier modules, new regulated activities are prohibited from locating in Aquifer Protection Areas. Existing regulated facilities may be "grandfathered" into the program and allowed to continue operations in the Aquifer Protection Area by registering their regulated activities.

An Aquifer Protection Area Registration allows the facility to preserve their right to continue to conduct a regulated activity on the property at a site that is within the Aquifer Protection Area. The registration also allows the facility to expand their registered activity within the property boundary of the site.





### Aquifer Protection Area Registrations, continued

Existing facilities engaged in regulated activities located in the Aquifer Protection Area must file an Aquifer Protection Area Registration with the Agency within six (6) months of the adoption of local Aquifer Protection Area Regulations or adoption of the aquifer protection area on the municipal zoning map, whichever occurs later.

Both the Municipal Aquifer Protection Agency and Connecticut DEEP will process registrations.

Failure to register may result in loss of the ability to conduct regulated activities at a site.

**NOTE:** If a business wants to add or change their regulated activity, they must apply for an Aquifer Protection Area Permit. (Permits are discussed in Module 12.)

### Municipal Aquifer Protection Area Registrations

Most regulated activities will be registered at the local level by the Municipal Aquifer Protection Agency. The Municipal Aquifer Protection Agency has jurisdiction over all regulated activities not regulated by the State of Connecticut DEEP.

Typically, these include businesses that use, store and handle smaller quantities of hazardous materials. Some examples are gas stations, auto repair facilities, metal fabricators, furniture finishers and pest control services.

Facilities conducting regulated activities within the authority of the Aquifer Protection Agency must submit an Aquifer Protection Area Registration to the Agency for their regulated activity.

The Agency administratively processes registrations for those regulated activities.

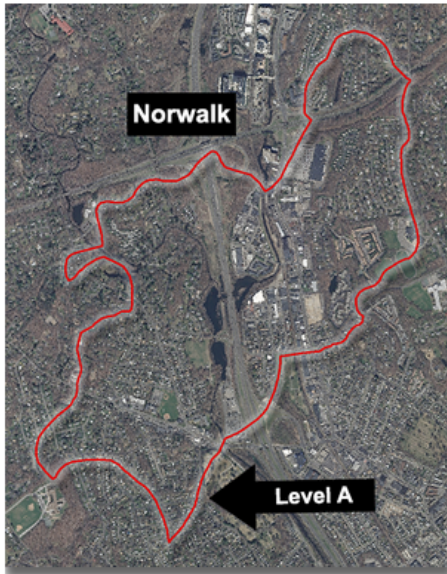


### What Sites are Eligible for an Aquifer Protection Area Registration?

There are certain requirements a site must meet in order to be eligible to register under the Aquifer Protection Area Program.

These include:

1. the site must be located in an Aquifer Protection Area (Level A)
2. the facility must be conducting one or more of the twenty-eight (28) regulated activities listed in the Aquifer Protection Area Regulations
3. on or before the date the municipality adopts the Aquifer Protection Area boundary on the town's zoning map, the facility must meet one of the following conditions:
  - a. be in active operation, or
  - b. have been active within the past five (5) years, or
  - c. has obtained a municipal building permit for the site and be planning to conduct a regulated activity.





### Example 1: Stand-alone Business

In the case of a stand-alone business that is on property owned by the business, the facility boundary is straightforward.

The business owner/property owner submits the registration, and the facility boundary is the full extent of the property boundary of the site.



1 Lovely St., Canton, CT  
property boundary for Best Cleaners



### Inactive Sites

If a regulated facility/site is currently out of business, unoccupied, or in some other way currently inactive at the time the registration is due, the regulated facility may be registered if it has been active within the past five (5) years of the date the Aquifer Protection Area was adopted and if Aquifer Protection Area Regulations are in place.

In this case, the facility owner or property owner should file an Aquifer Protection Area Registration to preserve its right to conduct a regulated activity in the future.

The facility seeking to register an inactive site may register only the regulated activities that were previously conducted on the site within the past five (5) year timeframe.

If the facility is registered as an inactive site and then becomes active, the facility should modify its registration to an active status. If the facility becomes active but will be adding or changing the registered regulated activity conducted on site, then an Aquifer Protection Area Permit is required to be submitted to the Agency for review and approval.

## Inactive Sites, continued



For example, four (4) years ago a gas station was active and registered with the Municipal Aquifer Protection Area Agency. Unfortunately, the gas station went out of business and the property became unoccupied.

Now, new business owners want to revive the gas station and bring it back to life. Because the site had an Aquifer Protection Area Registration and was active within the last five (5) years, the Aquifer Protection Area Registration for the site is able to be transferred to the new business owners.







### Municipal Agency Action

The Agency must review and take action on Aquifer Protection Area Registration applications within one hundred eighty (180) days of the date of receipt of an application.

The date of receipt is the day of the next regularly scheduled meeting of the Agency, immediately following the day of submission of the application to the Agency or thirty-five (35) days after the submission, whichever is sooner.





### Municipal Agency Action, continued

The action involves the Agency making a determination of completeness of the application.

A complete application contains important information about the business, the owner, the operator, the address of the facility, a map of the property boundary, the regulated activity or activities conducted at the site, and a certification by the registrant that they are in compliance with all Best Management Practices (BMPs).

The Agency may require registrants to submit additional documentation for the registration. The Agency may, by written notice, require any registrant to submit for review and written approval a materials management plan and/or a stormwater management plan.

A Model Materials Management Plan and a Model Stormwater Management Plan can be found on DEEP's website on the [Municipal Information page](#).



### Municipal Agency Action, continued

The Agency may accept a late registration at their discretion, if a business conducting a regulated activity that is eligible for registration fails to register. The Agency should be consistent in their decision to accept a late registration and set timeframes for late submittals.

If the Municipal Aquifer Protection Agency determines that the registration is incomplete, the Agency must reject the registration and notify the registrant of what additional information is needed and the date by which it must be submitted. A [sample Notice of Incompleteness letter](#) (Word document will download from a new web page) is available on [DEEP's website](#).







### Aquifer Protection Area Registration Renewals

A registration expires five (5) years from the date of receipt of the registration by the Municipal Aquifer Protection Agency. Registered facilities must apply to the Agency to renew the registration on a form prescribed by the Commissioner for a facility before expiration of the registration.

If a registered regulated activity is out of business or inactive when the registration renewal is required, a five (5) year allowance is in effect from the date the registration expires.

If the registrant has not applied to renew the registration within five (5) years of the date the registration expires, the facility is no longer eligible for registration, and conduct of regulated activities would be prohibited.