HAROLD GARY
Chairman

CRAIG PAEPRER Vice Chairman

BOARD MEMBERS
ANTHONY GIANNICO
DAVE FURFARO
CARL STONE
KIM KUGLER
RAYMOND COTE

TOWN OF CARMEL PLANNING BOARD



60 McAlpin Avenue Mahopac, New York 10541 Tel. (845) 628-1500 – Ext.190 www.ci.carmel.ny.us MICHAEL CARNAZZA

Director of Code

Enforcement

RICHARD FRANZETTI, P.E. Town Engineer

> PATRICK CLEARY, AICP,CEP, PP, LEED AP Town Planner

VINCENT FRANZE Architectural Consultant

### **PLANNING BOARD AGENDA**

**JULY 12, 2017** 

### **MEETING ROOM #1**

### TAX MAP # PUB. HEARING MAP DATE COMMENTS

### SITE PLAN

1.	NY Fuel Distributors (Coco Farms) 1923 Route 6	55.11-1-40	06/20/17	Amended Site Plan
2.	ShopRite Carmel – 184 Route 52, Carmel	44.9-1-9	06/13/17	Amended Site Plan

### MISC.

3.	Sansevera, John – 47 Gleneida Ridge Road	55.5-1-4	06/15/17	Regrading Application
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4. Minutes - 05/24/17

# HARFENIST KRAUT & PERLSTEIN LLP

LEO NAPIOR

DIRECT TEL.: 914-701-0800 MAIN FAX: 914-701-0808 LNAPIOR@HKPLAW.COM

June 30, 2017
VIA HAND DELIVERY

Chairman Harold Gary and Members of the Planning Board 60 McAlpin Avenue Mahopac, New York 10541

Re: 1923 US Route 6, Town of Carmel (the "Subject Property")

Dear Chairman Gary and Members of the Planning Board:

As you know, we represent NY Fuel Distributors LLC (the "Applicant"), in connection with the above referenced matter. We write to provide you with supplemental information and materials in regards to the application. Enclosed please find a letter of approval from NYCDEP dated June 27, 2017.

In addition, submitted herewith are updated site plan drawings, last revised June 20, 2017, that were approved by NYCDEP and NYSDOT. The only revisions to the plan are:

- 1. Additional storm water inlets are proposed both on and off site per coordination with NYSDOT AND NYCDEP; and
- 2. Additional soil erosion & sediment control measures are proposed per coordination with the NYCDEP.

We look forward to addressing any questions or comments at your upcoming meeting and respectfully request the Planning Board schedule a public hearing for the next available meeting date thereafter. Thank you for your attention to this matter.

Very Truly Yours,

HARFENIST KRAUT & PERLSTEIN LLP

Leo Napior





Vincent Sapienza
Acting Commissioner

Paul V. Rush, P.E. Deputy Commissioner Bureau of Water Supply prush@dep.nyc.gov

465 Columbus Avenue Valhalla, NY 10595 T: (845) 340-7800 F: (845) 334-7175 Mr. Jeffery Martell, PE, CM, LEED, AP Mr. Zachary E. CHaplin Stonefield Engineering and Design, LLC 92 Park Avenue Rutherford, NJ 07070

Via email: <u>jmartell@stonefieldeng.com</u> zchaplin@stonefieldeng.com

NY Distributors Proposed Convenience Store and Fueling Station a.k.a Coco Farms Gasoline Station 1923 US Route 6: Carmel, NY DEP Log # 2015-CF-0686-SP.1 Croton Falls Reservoir Basin

Dear Mr. Martell and Mr. Chaplin:

Re:

This letter is to inform you that your application to engage in the above referenced regulated activity pursuant to the "Rules and Regulations for the Protection from Contamination, Degradation and Pollution of the New York City Water Supply and Its Sources" (Regulations) was approved on June 27, 2017.

The Department reserves the right to modify, suspend or revoke this approval based on the grounds set forth in Section 18-26 of the Regulations. The activity proposed in your application only applies to the terms of this approval and is subject to the Regulations cited above. Failure to comply with the conditions of the approval may be the cause for suspension of this approval and initiation of an enforcement action. Should modification, suspension or revocation of an approval be necessary, the Department will notify the regulated party, via certified mail or personal service prior to modifying, suspending or revoking the approval. The notice will state the alleged facts or conduct which appear to warrant the intended action and explain the procedures to be followed.

The Regulations provide that an applicant may appeal the imposition of a substantial condition in an approval by filing a petition, in writing, with NYCDEP and with the New York City Office of Administrative Trials and Hearings (OATH) within thirty days of the date this determination was mailed.

NYCDEP may inspect and monitor the erosion control practices at the project site during construction. Therefore, a pre-construction meeting must be held at least two days prior to the start of any work. The owner, design professional, contractor and NYCDEP personnel must attend.

Please contact Mary Galasso at (914) 749 – 5265 to schedule this pre-construction meeting.

Sincerely,

Mary P. Galasso

Supervisor

Stormwater Programs EOH

C: Danny Porco, NY Fuel Distributors — <u>danny.porco@nyfueldistributors.com</u>
Rose Trombetta, (T) Carmel Planning - <u>rtrombetta@ci.carmel.ny.us</u>
Rich Franzetti, P.E., (T) Carmel Engineering - <u>rjf@ci.carmel.ny.us</u>
Armand DeAngelis, NYSDEC - <u>armand.deangelis@dec.ny.gov</u>



Pursuant to the authority granted under:

Article 11 of the New York State Public Health Law; Rules and Regulations For The Protection From Contamination, Degradation and Pollution Of The New York City Water Supply and Its Sources, 15 RCNY Chapter 18, 10 NYCRR Part 128.

New York City Department of Environmental Protection makes the following determinations with respect to the stormwater pollution prevention plan described below:

Name of Project:

NY Fuel Distributors, LLC

a.k.a. Coco Farms Gasoline Station

Location:

1923 US Route 6

(T) Carmel, Putnam County, New York

Tax Map # 55.11-1-40

Owner:

NY Fuel Distributors

c/o Danny Porco

Address:

235 Mamaroneck Road

White Plains, NY 10605

Drainage Basin:

Croton Falls Reservoir

### General Description:

The proposed project consists of construction of a gasoline station on the site of an existing gasoline station. The new gasoline station will consist of new gasoline tanks providing a greater storage capacity, new and additional gasoline pumps under a canopy, and a convenience store. Proposed impervious surfaces will be within the footprint of existing impervious surfaces. DEP review and approval is required by Section 18-39 (b) (3) (vi) – construction of a gasoline station. Because the proposed impervious surfaces are within the footprint of existing impervious surfaces, redevelopment criteria apply.

NY Fuel Distributors, LLC Gasoline Station (T) Carmel, New York

June 27, 2017 Page 2 of 6

Stormwater treatment will be provided using a Hydo International Downstream Defender unit. Runoff reduction is provided in a rain garden. The Stormwater Pollution Prevention Plan shall be implemented in accordance with the plan titled "Stormwater Pollution Prevention Plan (SWPPP), Proposed Convenience Store and Fueling Station" prepared by Stonefield Engineering & Design, LLC dated July 15, 2016 and last revised June 20, 2017 (see appendix A).

### Date(s) of site inspection:

December 2, 2015 March 17, 2016

NY Fuel Distributors, LLC Gasoline Station (T) Carmel, New York

June 27, 2017 Page 3 of 6

(XX) Approved	( ) Denied
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### Conditions of Approval:

This approval is granted with the following conditions:

- The regulated activity must be conducted in compliance with the plans as approved, listed in Appendix A, all applicable accepted standards, and all applicable laws, rules and regulations.
- Any alteration or modification of the SWPPP must be approved by DEP prior to implementation; DEP may opt to issue an amended SWPPP Determination.
- The applicant must schedule a pre-construction conference prior to the start of construction. Present at the meeting should be the applicant, the design engineer, the general contractor, and DEP staff.
- The applicant must notify DEP at least forty-eight (48) hours prior to the commencement of construction activity so that compliance inspections may be scheduled by DEP.
- All erosion and sediment controls must be properly installed and maintained until the site has been stabilized and the risk of erosion eliminated. Final stabilization is defined in the General Permit as all soil disturbing activities at the site have been completed, and that a uniform perennial vegetative cover with a density of 80% cover for the area has been established or equivalent stabilization measures (such as the use of mulches or geotextiles) have been employed.
- The applicant is required to submit as-built drawings for all stormwater management and water quality facilities.
- The stormwater management and water quality facilities must be maintained in accordance with the maintenance schedule included in the SWPPP as approved by DEP.
- This approval shall expire and thereafter be null and void unless construction is completed within Five (5) years of the date of issuance or within any extended period of time approved by DEP upon good cause shown.
- In the event that the material submitted is inaccurate or misleading, this approval is not valid and construction of this project is in violation of DEP regulations
- Failure to comply with any of the conditions of this approval is a violation of this approval and the Rules and Regulations For The Protection From Contamination, Degradation and Pollution Of The New York City Water Supply and Its Sources.

NY Fuel Distributors, LLC Gasoline Station (T) Carmel, New York

June 27, 2017 Page 4 of 6

This approval and all conditions of the approval are binding on the owner of the property where the facility is to be located. Any references to the "applicant" in this approval or in any conditions of this approval shall be deemed to refer to the owner of such property.

- If the applicant sells or otherwise transfers title of NY Fuel Distributors, LLC Gasoline Station before all construction planned for the property is completed and the site is stabilized, the applicant shall require the new owner ("Buyer") to comply with the SWPPP approved by the New York City Department of Environmental Protection on June 27, 2017 including, but not limited to, conservation easements, negative covenants, all provisions relating to erosion and sediment control during construction and to all maintenance of the stormwater management facilities once construction is complete. In particular, the applicant shall provide the Buyer with a copy of the SWPPP and shall cause the following real covenants and restrictions to be recorded with the deed for NY Fuel Distributors, LLC Gasoline Station with the following provisions:
  - (1) Buyer hereby acknowledges, covenants, warrants, and represents that he/she shall install and maintain any and all erosion controls and stormwater management facilities on the premises in accordance with the SWPPP, such SWPPP being attached hereto as Exhibit \_\_.
  - Buyer's installation and maintenance of the erosion control and stormwater management facilities shall be for the benefit of the City of New York as well as for the owners of NY Fuel Distributors, LLC Gasoline Station.
  - (3) Buyer's obligation to install and maintain any and all erosion controls and stormwater management facilities on the premises in accordance with the attached SWPPP shall be perpetual, shall run with the land, and shall be binding on Buyer's heirs, successors, and assigns.
  - (4) Buyer hereby covenants, warrants and represents that any lease, mortgage, subdivision, or other transfer of NY Fuel Distributors, LLC Gasoline Station SWPPP, or any interest therein, shall be subject to the restrictive covenants contained herein pertaining to the installation and maintenance of erosion control and stormwater management facilities, and any deed, mortgage, or other instrument of conveyance shall specifically refer to the attached SWPPP and shall specifically state that the interest thereby conveyed is subject to covenants and restrictions contained herein.
- Prior to conveying title to NY Fuel Distributors, LLC Gasoline Station, the applicant shall submit to the New York City Department of Environmental Protection a proposed deed containing the aforementioned real covenants and restrictions.

NY Fuel Distributors, LLC Gasoline Station (T) Carmel, New York

June 27, 2017 Page 5 of 6

This approval and all conditions of the approval are binding on the owner of the property where the stormwater management facilities are to be located. Any references to the "applicant" in this approval or in any conditions of this approval shall be deemed to refer to the owner of such property.

Date: June 27, 2017

Determination made by:

Mary P. Galasso Supervisor

Stormwater programs, EOH

DEP Regulatory and Engineering Programs

This determination letter must be maintained by the applicant and be readily available for inspection at the construction site.

NY Fuel Distributors, LLC Gasoline Station (T) Carmel, New York

June 27, 2017 Page 6 of 6

APPENDIX A

The following documents were prepared by Stonefield Engineering & Design, LLC for NY Fuel Distributors, LLC Gasoline Station:

- 1. "Stormwater Pollution Prevention Plan (SWPPP), Proposed Convenience Store and Fueling Station" dated July 15, 2016 and last revised June 20, 2017.
- 2. Drawing C-1 entitled "Cover Sheet" dated July 6, 2016, last revised June 20, 2017.
- 3. Drawing C-2 entitled "Existing Conditions Plan" dated July 6, 2016, last revised June 20, 2017.
- 4. Drawing C-3 entitled "Demolition Plan" dated July 6, 2016, last revised June 20, 2017.
- 5. Drawing C-4 entitled "Site Plan" dated July 6, 2016, last revised June 20, 2017.
- 6. Drawing C-5 entitled "Grading & Drainage Plan" dated July 6, 2016, last revised June 20, 2017.
- 7. Drawing C-6 entitled "Utility Plan" dated July 6, 2016, last revised June 20, 2017.
- 8. Drawing C-8 entitled "Soil Erosion & Sediment Control Plan" dated July 6, 2016, last revised June 20, 2017.
- 9. Drawing C-9 entitled "Soil Erosion & Sediment Control Plan" dated July 6, 2016, last revised June 20, 2017.
- 10. Drawing C-10 entitled "Landscaping Plan" dated July 6, 2016, last revised June 20, 2017.
- 11. Drawing C-11 entitled "Landscaping Details" dated July 6, 2016, last revised June 20, 2017.
- 12. Drawing C-12 entitled "Construction Details" dated July 6, 2016, last revised June 20, 2017.
- 13. Drawing C-13 entitled "Construction Details" dated July 6, 2016, last revised June 20, 2017.
- 14. Drawing C-14 entitled "Construction Details" dated July 6, 2016, last revised June 20, 2017.
- 15. Drawing C-15 entitled "Construction Details" dated July 6, 2016, last revised June 20, 2017.

### LOCATION MAP SCALE: 1" = 2.000'±

# SITE PLAN

# NY FUEL DISTRIBUTORS, LLC

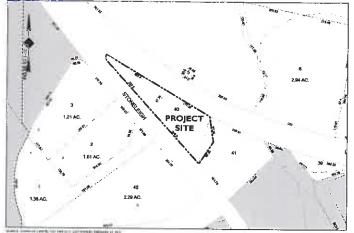
# **PROPOSED CONVENIENCE STORE AND FUELING STATION**

BLOCK I, LOT 40 1923 U.S. ROUTE 6 TOWN OF CARMEL PUTNAM COUNTY, NEW YORK





**AERIAL MAP** SCALE: 1" = 100'±



**TAX MAP** SCALE: 1" = 100'±

PLANS PREPARED BY:



STONEFIELD engineering & design Rutherford, NJ · Long Island City, NY · Royal Oak, MI

Headquarters: 75 Orient Way, Suite 303, Rutherford, NJ 07070 Phone 201.340.4468 - Fax 201.340.4472

www.stonefieldeng.com

### PLAN REFERENCE MATERIALS:

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EXISTING CONDITIONS PLAN	C-2					
DEMOLITION PLAN	C-3					
SITE PLAN	C-I					
GRADING & DRAINAGEPLAN	C-5					
UTILITY PLAN	C-6					
LIGHTING PLAN	C-7					
SOIL BROWN A HERMINT CONTROL PLAN	C-8					
LANDSCAPING PLAN & DETAILS	C-9 - C-10					
CONSTRUCTION DETAILS	C11-C14					
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### **APPLICANT**

### OWNER

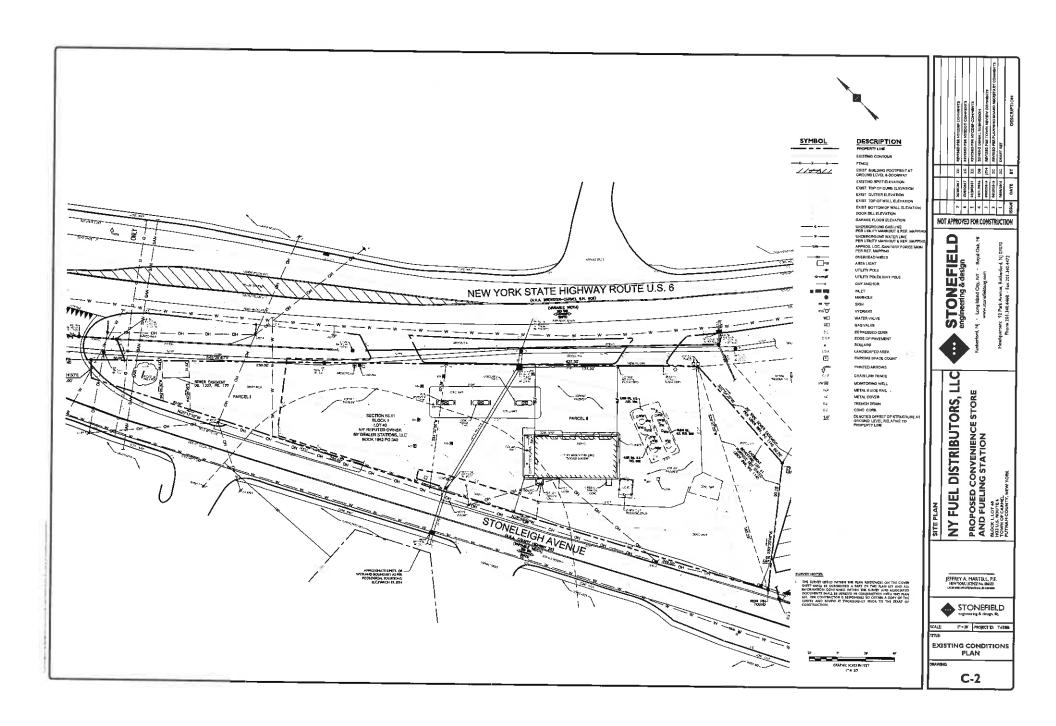
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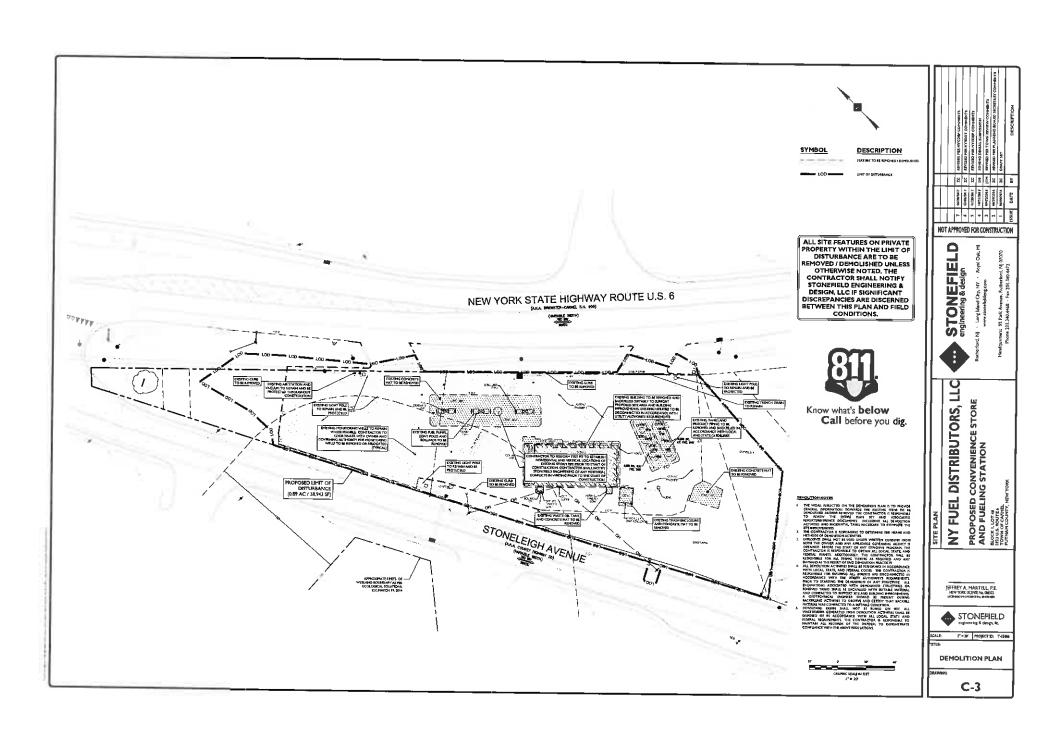
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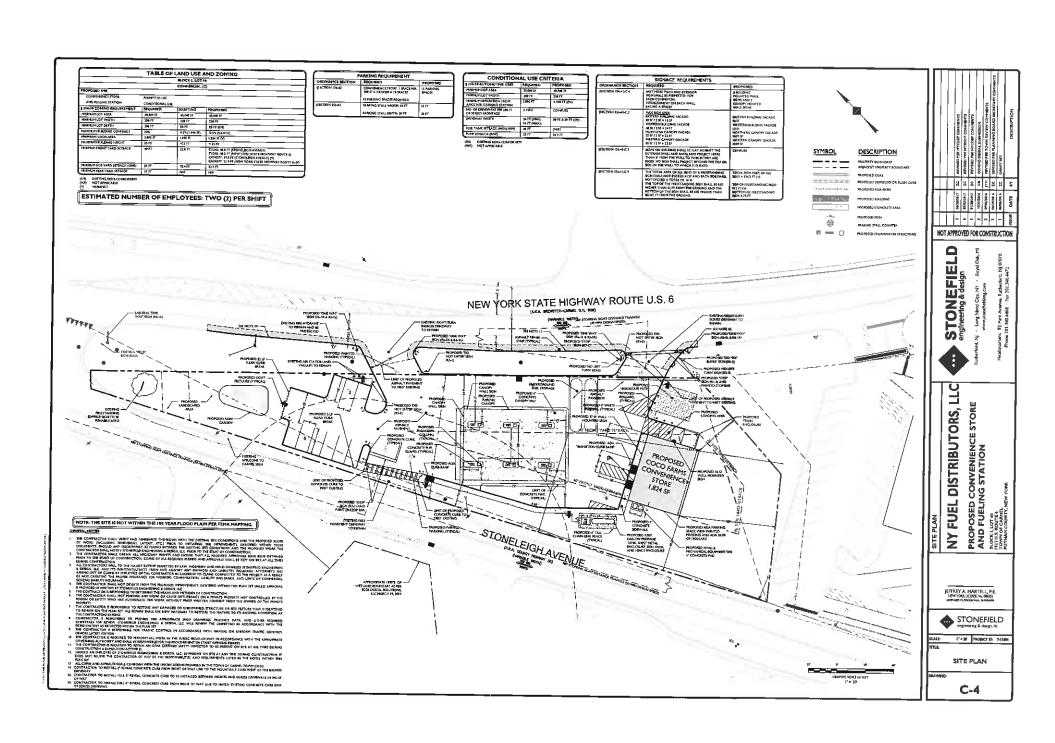
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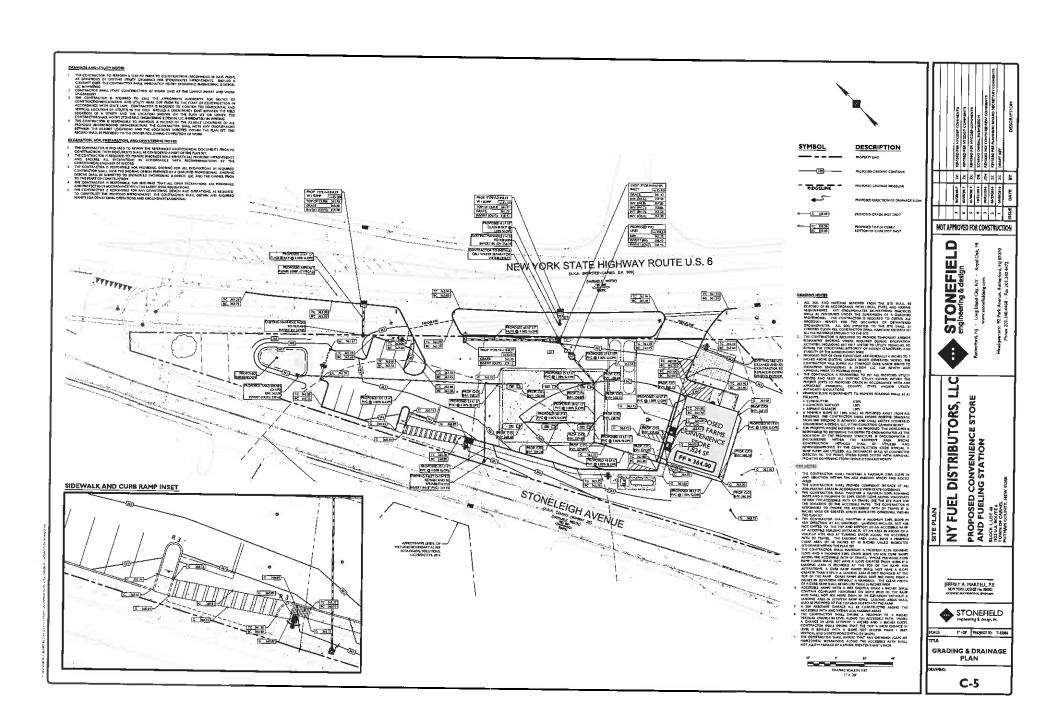
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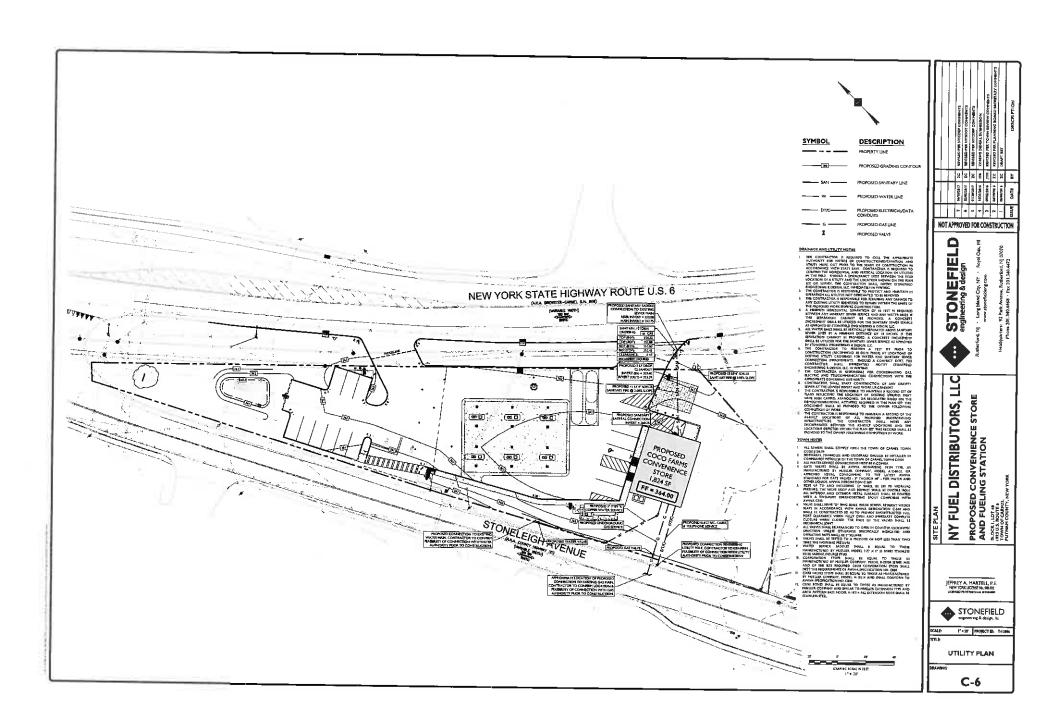
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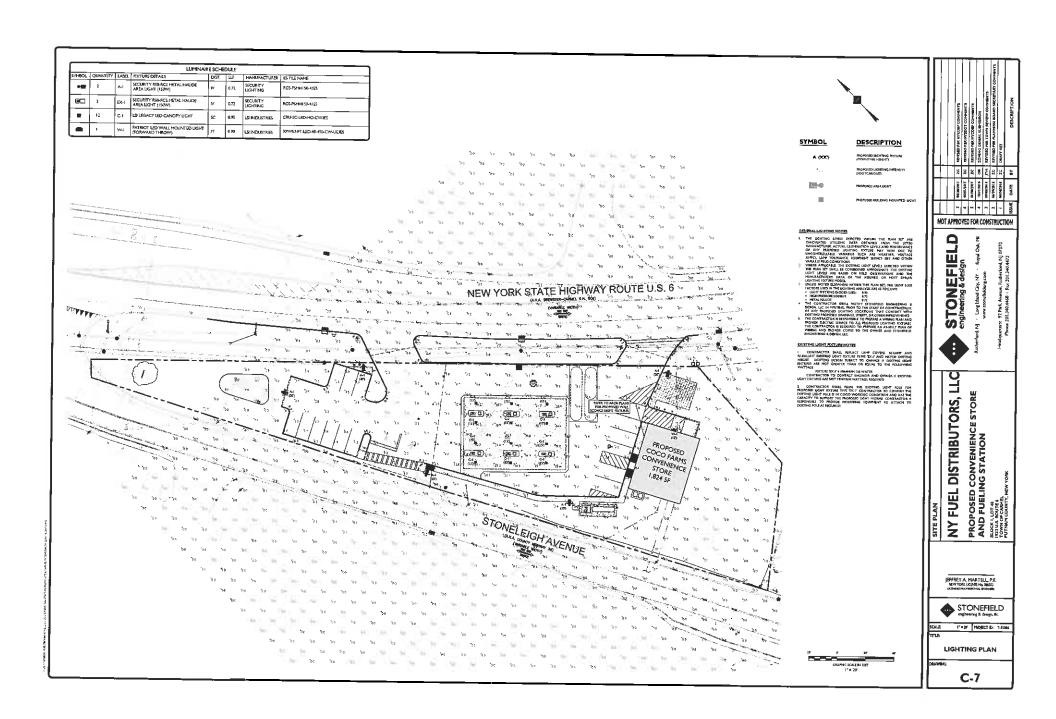


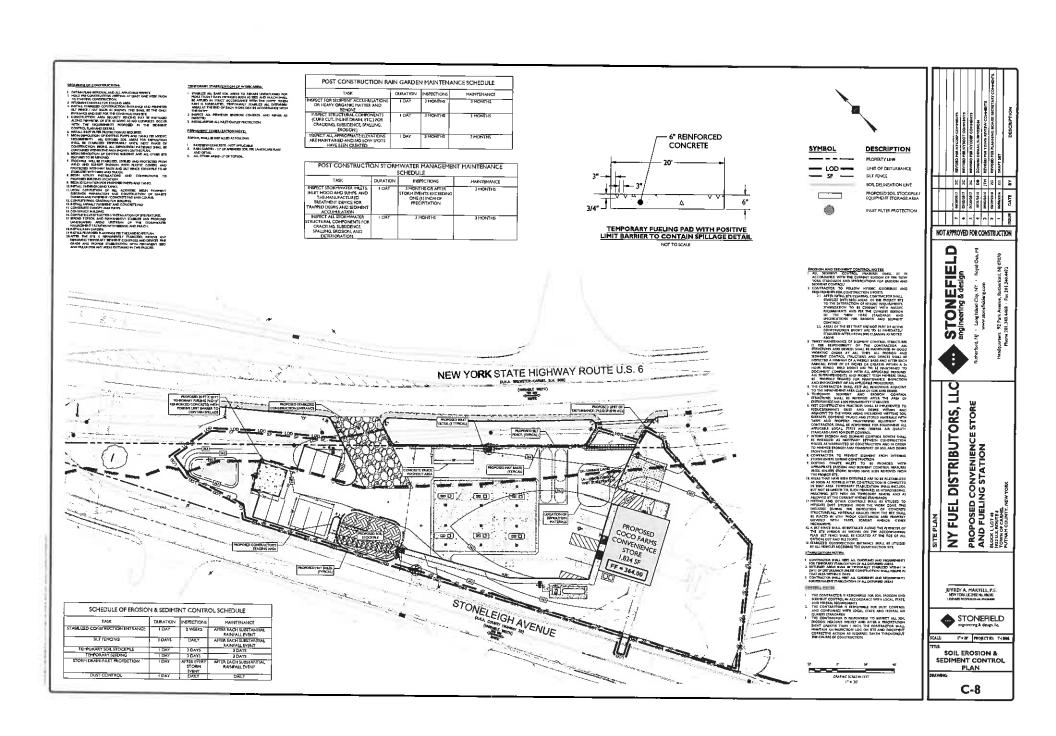


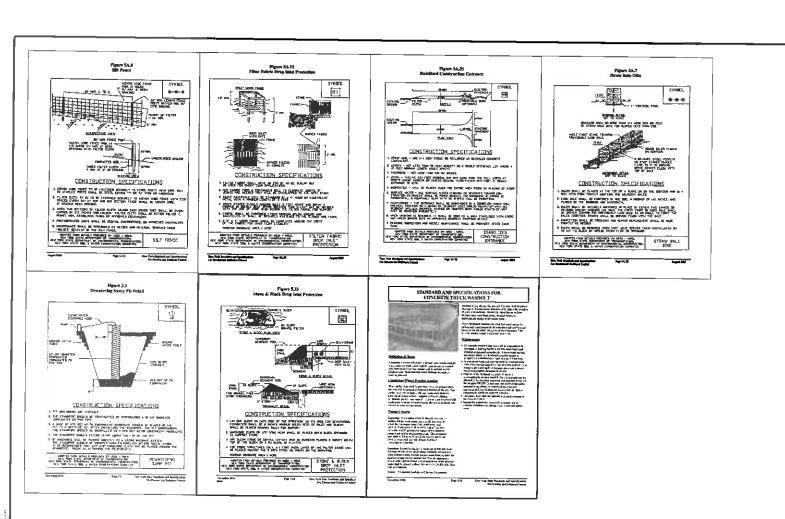












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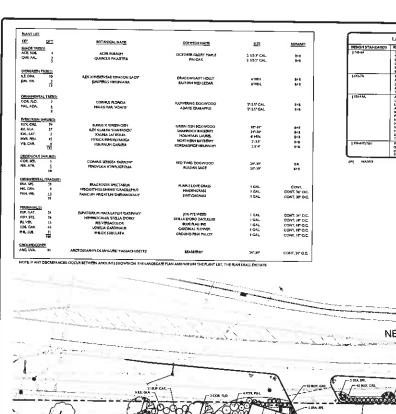
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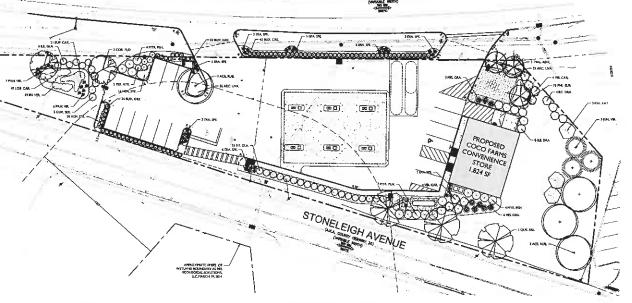
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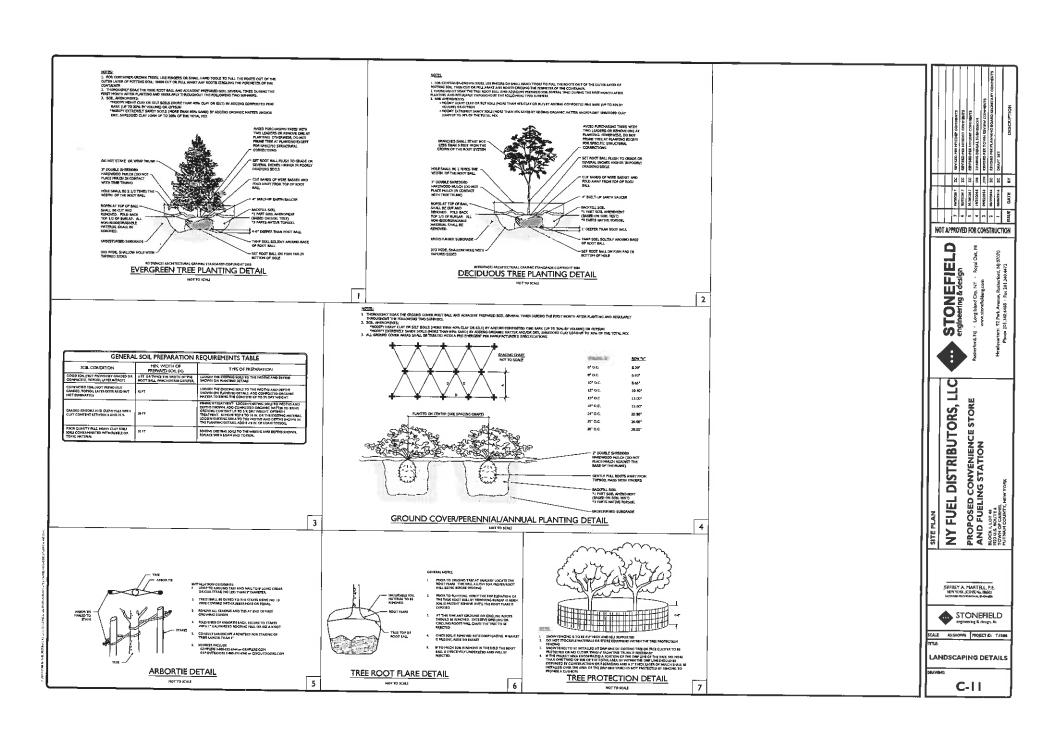
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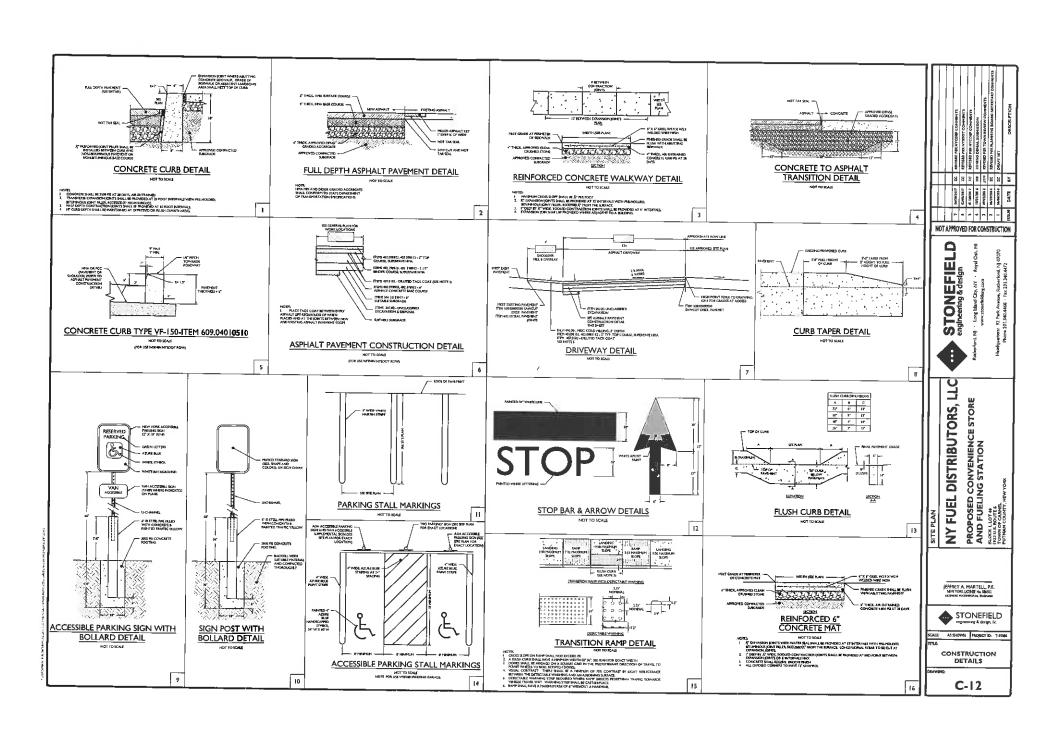
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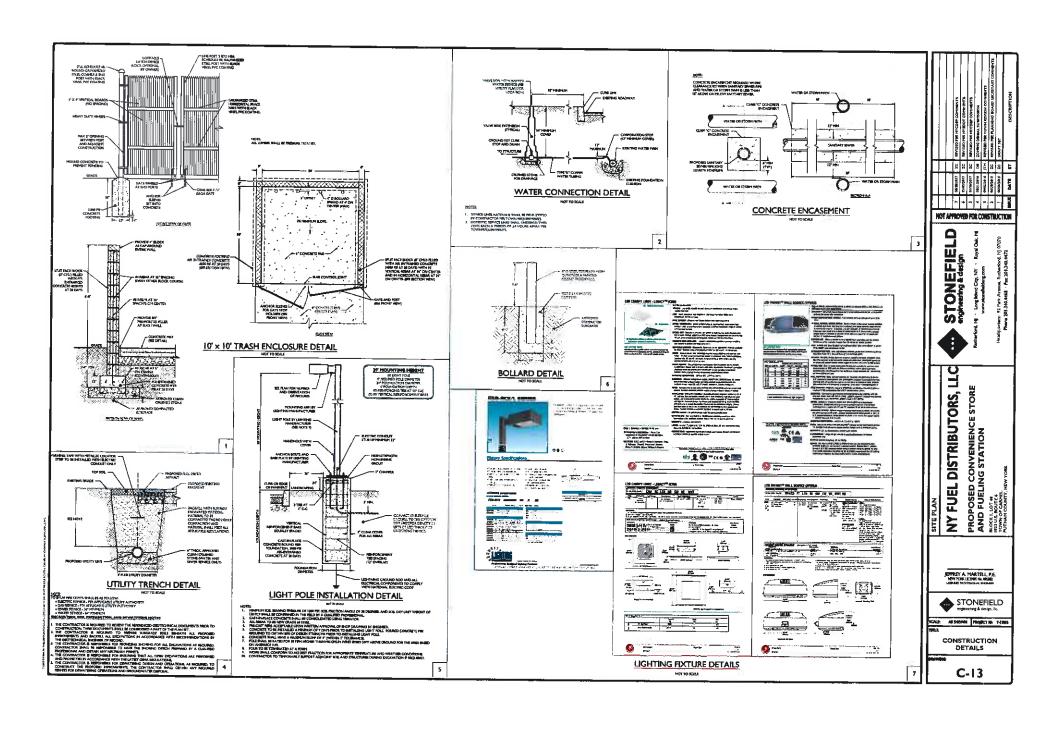


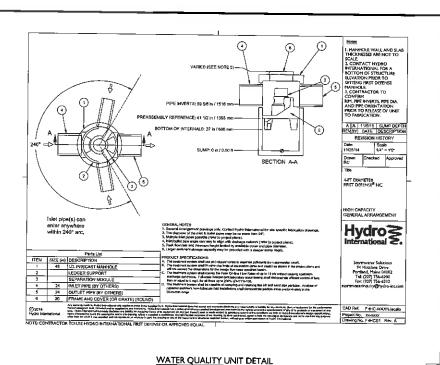
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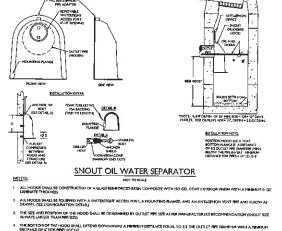
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CONSTRUCTION DETAILS

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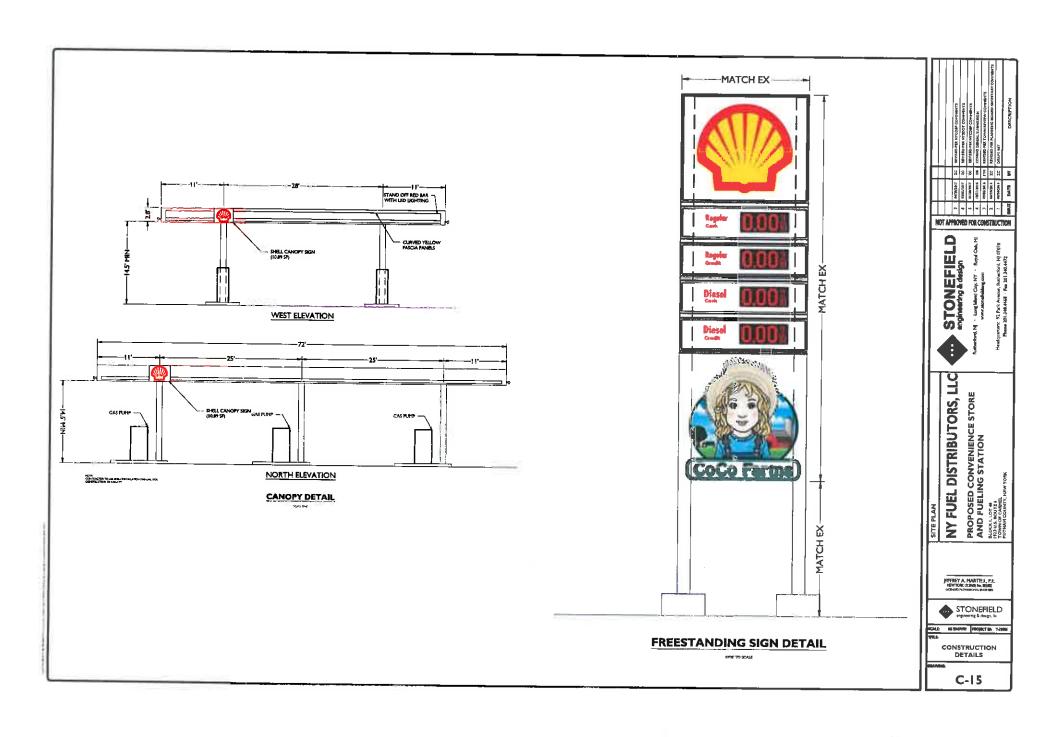
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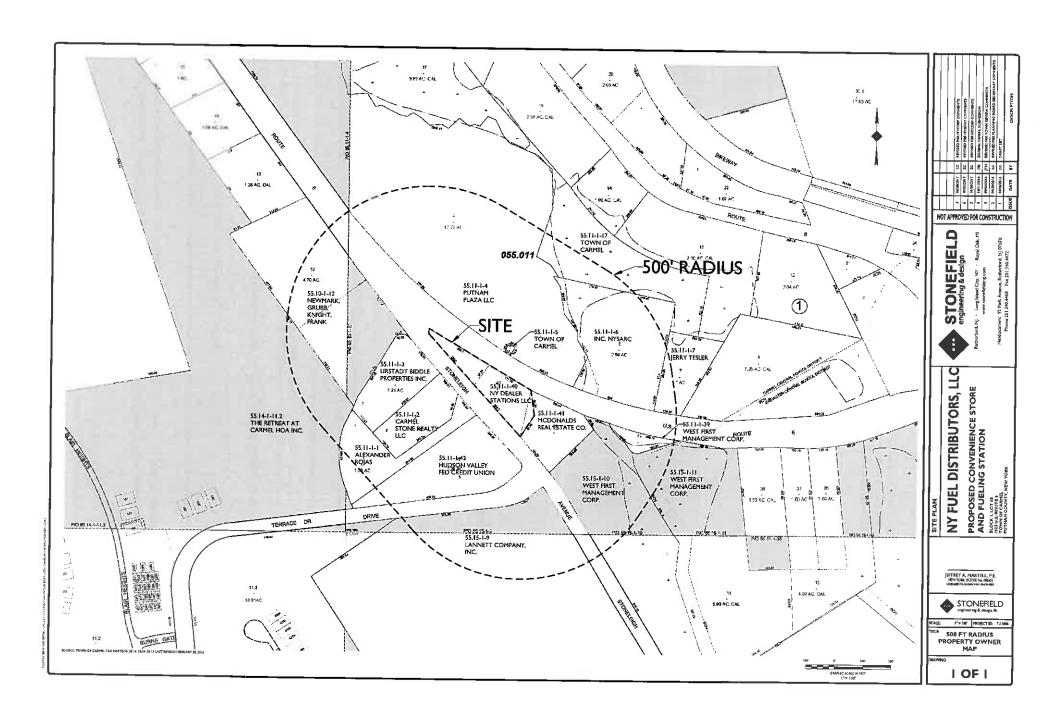
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### Via Hand Delivery

Town of Carmel Planning Board Office of the Town Engineer 60 McAlpin Avenue Mahopac, NY 10541

Re: ShopRite Supermarket Expansion (Store #235)

184 NYS Rt. 52 Carmel, NY 10512 Tax Map ID: 44.9 - 1 - 9

To the Town of Carmel Planning Board:

Our office is in receipt of the following comment letters concerning the above referenced project (copies enclosed):

- Town Engineer Memorandum (dated 5/23/17);
- Cleary Consulting Memorandum (dated 5/24/17).

With regard to the specific comments from these documents, we offer the following responses:

### Town Engineer Memorandum

- I. General Comments
  - 1. The facility is currently served by Carmel Water District #2 and Carmel Sewer District #2. RESPONSE: Duly noted. Carmel Water District #2 and Carmel Sewer District #2 are listed on the Cover Sheet of the civil drawing package.
  - 2. The following referrals would appear to be warranted:
    - a. Carmel Fire Department.

RESPONSE: Duly noted. A copy of the proposed plans have been submitted to the Carmel Fire Department for review.

- 3. The following regulatory permits will be required for the application:
  - a. New York State Department of Conservation Stormwater Permit
  - b. New York City Department of Environmental Protection (NYCDEP) Stormwater Permit

RESPONSE: Enclosed please find the stormwater and HydroFlow calculations. A full Stormwater Pollution Prevention Plan (SWPPP) is to be prepared upon satisfaction of all other comments from the Town. Per our discussion with the Town Engineer, a NYSDEP permit will not be required.

4. The applicant will be required to supply a stormwater maintenance agreement and maintenance guarantee per Town Code (§156-85 and §156-87 B respectively) to assure long-term maintenance of all stormwater management practices (SWMP) proposed for the site.

RESPONSE: A signed copy of the prepared agreement will be included with the finalized SWPPP and submitted at a later date.

- 5. The overall disturbance for the project is 1.62 acres which therefore exceeds the threshold criteria of disturbance for New York State Department of Environmental Conservation (NYSDEC) stormwater regulations. This project is above the 1 acre threshold and therefore requires coverage under the NYSEC SPDES General Permit for Stormwater Discharges from Construction Activity (GP-0-15-002) and the development of Stormwater Pollution Prevention Plan (SWPPP) that includes the post stormwater controls. The applicant must provide a Storm Water Prevention Control Plan Which provides all the necessary details for design of the stormwater management system.

  RESPONSE: A Stormwater Pollution Prevention Plan (SWPPP) is to be prepared upon satisfaction of all other comments from the Town. The SWPPP Plans including all the necessary details for design of the stormwater management system is included with the Civil Site Plan Package (see sheets C4.0-C4.2).
- 6. Should any public improvements be deemed necessary as part of the development of the tract, a Performance Bond and associated Engineering Fee must eventually be established for the work.

RESPONSE: Duly noted. There are no improvements proposed within the State right-of-way.

### II. Detailed Comments

1. Clarify Line Striping Pattern. The detail indicates a U pattern. Is this the pattern that will be used?

RESPONSE: The detail for the parking stall striping has been revised to match the existing striping of the shopping center (square, "California" striping). Please refer to the "Striping Note" located on the Site Plan (sheet C1.1) stating "Parking stalls shall be California Striping (see detail)" and the "Typical Head-To-Head Parking Stalls" Detail on Detail Sheet I (sheet C8.0).

2. The Parking spot dimensions do not conform to the Town Code. Dimensions of 9'x 18' are provided. The Code requires spots dimensioned at 10'x 20'.

RESPONSE: The proposed stall dimensions (9'x18') match the existing stall dimensions. The existing stall dimensions were approved via variance (granted in March 1997 by the Town of Carmel). It is anticipated that parking variances will be required for approval of this application. An application is to be submitted to the Zoning Board of Appeals for the required variances upon receipt of direction from the Planning Board to make such application.

3. Details should be provided to show that the water infiltration system meets NYSDEC criteria.

RESPONSE: The enclosed stormwater runoff calculations show the CMP Infiltration System meets NYSDEC criteria by providing stormwater storage/infiltration so that the proposed total stormwater runoff flow is less than the existing stormwater runoff flow. Additional boring/infiltration testing is being undertaken and will be submitted to the Engineer for review upon completion.

- 4. The storm water infiltration system indicated the use of CMP indicating Corrugated Metal Pipe. The applicant should provide High Density Polyethylene piping.

  RESPONSE: Per our discussions with the manufacturers, the proposed Perforated CMP system is significantly less costly than a Perforated High Density Polyethylene Pipe System. Additionally, HDPE Pipe is generally only used for applications where leak resistance is a major concern or where soil chemistry isn't suitable for metal pipe.
- 5. The piping for the storm water infiltration system should be perforated.

  RESPONSE: The CMP Infiltration System detail and the drainage structure schedule has been revised to better note the use of "Perforated" CMP.
- 6. Provide greater detail on the construction of the Header Row for the storm water infiltration system.

RESPONSE: Additional specifications with greater detail are provided in the civil site plan package (sheet C4.3).

- 7. Identify Risers and Stubs for the storm water infiltration system.

  RESPONSE: Elevations for manhole covers and pipe inverts are listed on the Drainage Structure Schedule. Per our discussions with the CMP Infiltration system manufacturer, manhole riser locations are recommended near pipe inverts and every ±150 feet of pipe length (as shown on the drawings).
- 8. Storm water at the proposed loading bays will be handled by a hybrid gravity/pumping system. The gravity elements will be handled by trench drains at the top of the bay and by a combination of trench drains and catch basins at the bottom of the bays which will outlet into a pump pit. The applicant may wish to consider roofing over the loading bays to eliminate the need for the pumping system.

RESPONSE: A proposed roof over the loading bays is anticipated to be too costly and potential column locations will pose issues for access to the truck loading bays. ShopRite has locations, including one in Scarsdale, NY, where the use of pumps in the loading docks was required. These pumps have performed without issue. Furthermore, the pump will be a triplex pump (full design confirmed/completed by the MEP Engineer during the Building Permit Design) and will be connected to the

existing backup power supply for the building. Given the small tributary area of the bottom of the loading docks and the additional safety of backup power, the use of a roof over the docks is not warranted.

- 9. The applicant should consider slope stabilization mats for the 1V.2H slopes.
  RESPONSE: Contech Erosion Control Blankets (LANDLOK CS2) are proposed for the 1V:2H slopes. Please refer to callout on sheet C4.1 of the Civil Site Plan Drawings.
- 10. The applicant should consider an interceptor swale at the toe of the cut slope on the east side of the property.
  - RESPONSE: A 3' wide french drain has been proposed at the toe of the slope on the east side of the property to intercept stormwater so a swale will not be required. The french drain piping has been sized to collect all stormwater within the tributary area of the slopes.
- 11. The application of filter fabric on the top of the French drain is not recommended. The applicant should consider a heavier stone for the top of the French drain along with a swale cross section at the top.
  - RESPONSE: The detail for the proposed french drain has been revised. Larger stone has been proposed above the french drain pipe. The filter fabric has also been removed from above the french drain. The drainage pipe has been proposed to be wrapped in filter fabric to avoid collection of eroded soils. The larger stone proposed on top of the drainage pipe is intended to remove the need of a swale.
- 12. The stormwater design must consider the existing regulatory approved stormwater infrastructure.
  - RESPONSE: Enclosed please find the stormwater runoff calculations which show the proposed total stormwater runoff flow is less than the existing stormwater runoff flow (please refer to the note on sheet C5.0). As the downstream stormwater infrastructure will not be impacted by a 100-year storm (i.e. existing flow  $\geq$  proposed flow), an analysis of the downstream system is not warranted. Please refer to the "Flow Calculations" note on sheet C5.0.
- 13. Drawing C2.0 calls for the removal of a propane tank. It is unclear where this tank will be moved to and if it will be adequately protected.
  - RESPONSE: The existing storage cage location has been moved near the proposed cooler expansion in the rear of the building.
- 14. The applicant should meet with the Town Engineer to discuss the water system shutdown and the need for a water system workplan.
  - RESPONSE: Note #1 has been added to the Town of Carmel Water Service Notes (sheet C0.1) and Utility Note #2 has been added to the Utility Plan (sheet C5.0) that states: "Contractor shall meet with Town Engineer to develop a Water System Work

Plan prior to start of construction and two weeks prior to start of work on water mains."

- 15. The applicant should provide wind load calculations for the canopy.

  RESPONSE: Wind calculations for the canopy shall be provided during the Building Permit review period.
- 16. A landscaping plan should be provided to show the location and extent of all plantings. RESPONSE: A Landscape Plan has been provided in the civil drawing package (sheet C7.0).
- 17. All plantings shall be installed per §142 of the Town of Carmel Town Code.

  RESPONSE: Duly noted. Town of Carmel Landscape Notes have been added to the Notes Sheet (sheet C0.1).
- 18. The applicant should consider replanting existing traffic Islands. Provide details on new landscaping areas.
  RESPONSE: Landscaping in existing traffic islands is "existing to remain". Proposed landscaping for new traffic islands is shown on Landscape Plan (sheet C7.0).
- 19. Sidewalks and guiderails should be installed per §128 of the Town of Carmel Town Code. **RESPONSE: Duly noted.**
- 20. It is unclear as to what is contained in the series of manholes in the vicinity of the snow storage area. Additional information must be provided.
  RESPONSE: Manholes in this pavement area are for the stormwater infiltration system.
- 21. Drawings C-1.1 and C3.0 identify a retaining wall on the east side of the property. In some areas the walls are ten (10) foot tall. The following must be completed. **RESPONSE: Duly noted.**
- 22. A safety fence must be installed on the top of the wall.

  RESPONSE: Our office is coordinating with a Structural Engineer for detailed retaining wall drawings. Plans will be submitted at a later date.
- 23. Wall calculations must be certified by a structural engineer.

  RESPONSE: Our office is coordinating with a Structural Engineer for detailed retaining wall drawings. Plans will be submitted at a later date.

24. Construction Sequence should be provided.

RESPONSE: A "Construction / BMP Implementation and Maintenance Sequence" chart has been provided in the civil package as part of the SWPPP drawings (see sheet C4.2).

- 25. The applicant will need to provide a water and wastewater use report.

  RESPONSE: Enclosed please find a copy of the water and sewage usage report from the Project MEP which states that there is minimal anticipated increase in total water and sewage usage, and therefore, no alterations and/or upgrades are required.
- 26. Graphic representation of vehicle movements through the site should be provided to illustrate that sufficient space exists to maneuver all types of vehicles anticipated at the site. RESPONSE: A Truck Run Plan has been provided in the civil drawing package to illustrate all of the truck maneuvers anticipated for ShopRite.
- 27. All turning radii for the site should be graphically provided.

  RESPONSE: A turning radius template has been included on the Truck Run Plan.
- 28. Available sight distances at each driveway location should be specified on plan. Any clearing along the edge of the roadway R.O.W. that may be necessary to assure appropriate sight distances are provided, should be identified.

  RESPONSE: Sight triangles have been labeled on the Overall Site Plan (sheet C1.0) with a note that states: "Contractor shall trim existing landscaping within sight triangles between 3'-8' height from grade."
- 29. All sewers must meet the Town of Carmel Town Code §120-29.

  RESPONSE: Duly noted. No sanitary sewer work is proposed as part of this project.
- 30. Sidewalks, manholes and guiderails should be installed per §128 of the Town of Carmel Town Code.

**RESPONSE:** Duly noted.

- 31. All water service connections must be K-copper.

  RESPONSE: Duly noted. Town of Carmel Water Service Note #2 has been added to the Notes Sheet (C0.1) that states: "All water service connections must be K-copper."
- 32. Gate valves shall be AWWA non-rising stem type, as manufactured by Mueller Company, Model A-2360-23, or approved equal, conforming to the latest AWWA Standard for Gate Valves 3" through 48" for Water and Other Liquids, AWWA Designation C-509. RESPONSE: Duly noted. Town of Carmel Water Service Note #3 has been added to the Notes Sheet (C0.1) that states: "Gate valves shall be AWWA non-rising stem type, as manufactured by Mueller Company, Model A-2360-23, or approved equal,

conforming to the latest AWWA Standard for Gate Valves - 3" through 48" - for Water and Other Liquids, AWWA Designation C-509."

- 33. Sizes up to and including 12" shall be 250 psi working pressure. The valve body and bonnet shall be ductile iron. All interior and exterior metal surfaces shall be coated with a two-part thermosetting epoxy complying with AWWA C550.

  RESPONSE: Duly noted. Town of Carmel Water Service Note #4 has been added to the Notes Sheet (C0.1) that states: "Sizes up to and including 12" shall be 250 psi
  - the Notes Sheet (C0.1) that states: "Sizes up to and including 12" shall be 250 psi working pressure. The valve body and bonnet shall be ductile iron. All interior and exterior metal surfaces shall be coated with a two-part thermosetting epoxy complying with AWWA C550."
- 34. Valves shall have dual "O" ring seals, inside screw, resilient wedge seats in accordance with AWWA Designation C-550 and shall be constructed so as to provide unobstructed full port clearance when fully open and immediate complete closure when closed. The ends of the valves shall be mechanical joint.
  - RESPONSE: Duly noted. Town of Carmel Water Service Note #5 has been added to the Notes Sheet (C0.1) that states: "Valves shall have dual "O" ring seals, inside screw, resilient wedge seats in accordance with AWWA Designation C-550 and shall be constructed so as to provide unobstructed full port clearance when fully open and immediate complete closure when closed. The ends of the valves shall be mechanical joint."
- 35. All valves shall be arranged to open in counter clockwise direction unless otherwise specifically indicated and operating nuts shall be 2" square.
  RESPONSE: Duly noted. Town of Carmel Water Service Note #6 has been added to the Notes Sheet (C0.1) that states: "All valves shall be arranged to open in counter clockwise direction unless otherwise specifically indicated and operating nuts shall be 2" square."
- 36. Valves shall be tested to a pressure of not less than two times the working pressure.

  RESPONSE: Duly noted. Town of Carmel Water Service Note #7 has been added to the Notes Sheet (C0.1) that states: "Valves shall be tested to a pressure of not less than two times the working pressure."
- 37. All hydrants shall be six inches in size with six-inch mechanical joint inlet connection and shall be equal to the Mueller Centurion A-421, with one (1) 4½" pumper nozzle and two (2) 2½" hose nozzles.
  - RESPONSE: Duly noted. Town of Carmel Water Service Note #8 has been added to the Notes Sheet (C0.1) that states: "All hydrants shall be six inches in size with sixinch mechanical joint inlet connection and shall be equal to the Mueller Centurion A-421, with one (1) 4½" pumper nozzle and two (2) 2½" hose nozzles."

- 38. Water Service Saddles shall be equal to those manufactured by Mueller, Model 7½" x 1" SS Series Stainless Steel Saddle, Double Stud.
  - RESPONSE: Duly noted. Town of Carmel Water Service Note #9 has been added to the Notes Sheet (C0.1) that states: "Water Service Saddles shall be equal to those manufactured by Mueller, Model 7½" x 1" SS Series Stainless Steel Saddle, Double Stud."
- 39. Corporation stops shall be equal to those as manufactured by Mueller Company, Model B-25000Series, NRS and of the size required. Such corporation stops shall meet the requirements of AWWA Specification No. C800.
  - RESPONSE: Duly noted. Town of Carmel Water Service Note #10 has been added to the Notes Sheet (C0.1) that states: "Corporation stops shall be equal to those as manufactured by Mueller Company, Model B-25000Series, NRS and of the size required. Such corporation stops shall meet the requirements of AWWA Specification No. C800."
- 40. Curb valves (stops) shall be equal to those as manufactured by Mueller Company, Model H-15214 and shall conform to AWWA Specification No. C800.
  RESPONSE: Duly noted. Town of Carmel Water Service Note #11 has been added to the Notes Sheet (C0.1) that states: "Curb valves (stops) shall be equal to those as manufactured by Mueller Company, Model H-15214 and shall conform to AWWA
- 41. Curb boxes shall be equal to those as manufactured by Mueller Company and similar to Mueller extension type with arch pattern base model H-10314 all extension rods shall be stainless steel.

Specification No. C800."

- RESPONSE: Duly noted. Town of Carmel Water Service Note #12 has been added to the Notes Sheet (C0.1) that states: "Curb boxes shall be equal to those as manufactured by Mueller Company and similar to Mueller extension type with arch pattern base model H-10314 all extension rods shall be stainless steel."
- 42. All fire hydrants shall be the approved AWWA type fire hydrants in conformance with the American Water Works Association Standard for Fire Hydrants for Ordinary Water Works Service, AWWA Designation C502, and shall have a 5-1/4" valve opening, a 6" mechanical joint inlet complete with an auxiliary gate valve (close coupled), a 6" mechanical joint shoe, and all appurtenances.
  - RESPONSE: Duly noted. Town of Carmel Water Service Note #13 has been added to the Notes Sheet (C0.1) that states: "All fire hydrants shall be the approved AWWA type fire hydrants in conformance with the American Water Works Association Standard for Fire Hydrants for Ordinary Water Works Service, AWWA Designation C502, and shall have a 5-1/4" valve opening, a 6" mechanical joint inlet complete with an auxiliary gate valve (close coupled), a 6" mechanical joint shoe, and all appurtenances."

43. Fire hydrants shall be rated for a working pressure of 250 Psi. Fire hydrants shall be sized for a 4'-6" bury.

RESPONSE: Duly noted. Town of Carmel Water Service Note #14 has been added to the Notes Sheet (C0.1) that states: "Fire hydrants shall be rated for a working pressure of 250 Psi. Fire hydrants shall be sized for a 4'-6" bury."

44. A tree protection detail is provided, however the plan does not identify which, if any, trees are being protected.

RESPONSE: The Tree Protection Detail has been removed from the civil drawings. In lieu of the detail, a Tree Protection fence has been proposed along the limit of disturbance line on the Stormwater Pollution Protection Plans (see sheets C4.0-C4.1)

- 45. A detail for standard duty asphalt has been provided. All asphalt should have a top layer of pavement at 2 inches, the binder course at 3 inches and the subgrade at 8 inches. RESPONSE: All new proposed standard and heavy-duty asphalt has been proposed with these standards.
- 46. Zoning/Parking Chart should identify the number of employees.

  RESPONSE: The Bulk Requirements Table has been revised to include the number of employees for the ShopRite Supermarket (50 employees per shift).
- 47. In the event of blasting operations, a permit will be required from the Building Department. RESPONSE: Site Plan Note #15 has been added to the Notes Sheet that states: "A permit will be required from the Building Department for any blasting operations."

### <u>Cleary Consulting Memorandum</u> <u>SITE PLAN REVIEW COMMENTS:</u>

### 1. Proposed Use:

• The site is located in the C - Commercial zoning district. The proposed renovation of the existing shopping center is classified as a "Design Shopping Center" in this zoning district, which is permitted as a Conditional Use, subject to compliance with the provisions of §156-32.

RESPONSE: Duly noted.

### 2. <u>Design Shopping Center:</u>

- As noted above the existing shopping center is classified as a "Design Shopping Center" subject to compliance with the provisions of §156-32. The following Conditional Use criteria have already been met for the existing shopping center. The proposed renovations must document continued compliance with these criteria:
  - A. Said shopping center plan, including its accessory on-site parking and loading facilities, access- and entranceways, landscaping and other elements of the plan, shall be as one comprehensive design showing the total concept, especially total floor area of buildings, rather than a stage or stages with undefined future expansion areas.

### RESPONSE: Duly noted.

B. For a neighborhood-type shopping center, which generally requires a market area of at least a population of 5,000 and draws its clientele from a radius of 1.5 miles, the site shall be a minimum of five acres in size. For a community-type shopping center, which generally requires a market of at least a population of 40,000 and draws a clientele from a three-and five-tenths-mile radius, the site shall be a minimum of 25 acres in size. For a regional-type shopping center, which generally requires a market of at least 150,000 persons and draws its clientele from a twenty-minute-driving-time radius and up to a fifteen-mile radius, the site shall be at least 50 acres in size.

**RESPONSE: N/A** 

C. On-site parking and loading facilities shall be in accordance with the Schedules of Off-Street Parking and Loading that are contained in Article IV, §156-42, of this chapter.

RESPONSE: Duly noted. A variance for total parking count and parking stall size is required.

D. Signs shall be in accordance with the regulations on signs contained in Article IV §156-41, of this chapter.

**RESPONSE:** Duly noted.

E. Any site plan for a shopping center submitted for review shall contain detailed design proposals of the applicant's method of connecting the shopping center with existing highways or streets. The Planning Board may request, at the expense of the applicant,

a study by a qualified traffic specialist to demonstrate that traffic generated by the shopping center will not affect the existing street system with a negative impact.

RESPONSE: Duly noted. Existing curb-cuts on NYS Route 52 are existing to remain.

F. A marketability study, prepared by an impartial professional selected by the Town at the applicant's expense, shall be required by the Planning Board to indicate the particular need for such use and to confirm a market for a shopping center of this size and floor area.

RESPONSE: This is an existing shopping center and as such, this requirement does not appear to be applicable.

#### 3. <u>Building Expansion:</u>

- The proposal calls for a one-story 17,336 square foot expansion of the existing ShopRite to the north side of the existing building. In terms of the design, layout configuration and symmetry of the shopping center, this represents a logical expansion.

  RESPONSE: N/A
- What is proposed within the new supermarket expansion? It the area simply for expanded retail sales? Supermarkets are today expanding their offerings and providing cafe and restaurant services, prepared take-out food options, expanded retail offerings beyond food, expanded beer, wine and liquor sales, etc. The proposed use of the expansion should be clarified.

RESPONSE: Enclosed please find the Floor Plan for the supermarket expansion. The proposed supermarket expansion is intended to allow for additional offerings and a more comfortable layout for ShopRite patrons. Expanded offerings beyond those typically found in supermarkets is not proposed (i.e. restaurants, bar, Starbucks, or similar non-supermarket uses). The use of the site will not be intensified beyond the existing use.

Please refer to the enclosed photos of the interior of a recently completed project. As seen in the photos, the interior of the store is generally the same character of the existing Carmel store (i.e. there are no expanded offerings as mentioned above); the interior provides a nicer environment for customers.

- Will the building expansion result in an increase in the intensity of the use of the site? Is the expansion projected to increase sales, or better accommodate existing customers? Will new employees be required? Will the hours of operation change as a result of the renovations? RESPONSE: See previous response listed above.
- Is the new bottle return area designed to be accessed from inside the building, or will it have a separate exterior entrance?

RESPONSE: The bottle return area is designed to be accessed from the exterior only.

• Clarify the new cooler modification.

RESPONSE: Per the previously submitted Floor Plan, the cooler modification is proposed as a Produce Prep. Cooler, Bakery Freezer, Bakery Storage, and Bakery Cooler.

#### 4. Zoning Dimensional Compliance:

 The proposed building expansion complies with the applicable zoning district requirements.

**RESPONSE: N/A** 

#### 5. Site Access:

• The site plan indicates that no changes to the existing access driveways are proposed RESPONSE: N/A

#### 6. Off-Street Parking:

• The site currently contains 676 off-street parking spaces.

**RESPONSE: N/A** 

• The proposed site plan will reconfigure existing parking spaces in front of the supermarket, resulting in the loss of 6 parking spaces.

RESPONSE: Additional parking stalls have been proposed to increase the total parking stall count to 680 stalls.

An off-street parking zoning tabulation should be added to the site plans.
 RESPONSE: A Parking Requirement Table with calculations can be found on the Overall Site Plan of the civil drawings (sheet 1.0). See Parking Plan (sheet C1.2) which shows the location of the existing and proposed parking stalls.

#### 7. Off-Street Loading:

• The site plan indicates the existing loading area will be reconstructed and 5 new loading bays provided.

**RESPONSE: N/A** 

• A truck maneuvering plan is requested. It appears that trucks accessing the new loading dock must travel behind the building to access the loading bays from the south and rear. Maneuvering more directly from the north appears difficult, as the turning and backing distance is restricted. Clarification is required.

RESPONSE: A Truck Run Plan has been added to the civil drawings to show truck access to all truck bays (sheet TR1.0). Truck bays for ShopRite must be accessed by traveling in a counter-clockwise direction around the building.

#### 8. Traffic:

• Subject to a response to the question regarding the expansion of the intensity of the use of the site, a traffic impact study may be necessary.

RESPONSE: Duly noted.

#### 9. Building Aesthetics:

- The front of the supermarket will be modified with a new vestibule, canopy and signage. RESPONSE: N/A
- The proposed building expansion will consist of prefabricated concrete panels. No windows, awnings or other building articulation is proposed.

**RESPONSE: N/A** 

• No façade improvements are proposed along any other stores in the shopping center **RESPONSE: N/A** 

#### 10. Site Lighting:

• A Lighting Plan was submitted (C6.0) which indicates that all new lighting (limited to the rear and side of the building), will be shielded and directed onto the site and will not exceed 1.0 foot candle along any property line.

RESPONSE: N/A

#### 11. Landscaping:

The building expansion will be closer to the existing access roadway to the new Hillcrest
Commons residential community located up the hill. While the intervening area is wooded,
it is not heavily wooded. Supplemental landscape buffering may be warranted to screen to
loading docks.

RESPONSE: A Landscape Plan has been added to the civil drawings (see sheet C7.0). The Landscape Plan shows additional landscaping to screen the loading dock area from the Hillcrest Commons residential community.

Several painted end islands are located in the area of the parking lot that is being renovated. Consideration should be given to creating planted landscaped islands in these locations.

RESPONSE: Landscape plantings on existing parking islands are existing to remain. Additional plantings have been proposed for the new parking end islands (see Landscape Plan – sheet C7.0).

#### 12. Stormwater Management:

A new subsurface stormwater detention system is proposed to address site runoff.
 RESPONSE: N/A

• SWPPP documents have been submitted (C4.0, C4.1) in support of this application. Review by the Engineering Department is required.

RESPONSE: Duly noted.

#### 13. Site Grading:

• The project requires the excavation of approximately 5,735 cubic yards of material. How much of this will be exported and how much re-used on-site?

RESPONSE: All clean "cut" material will be deposited in a regraded area near the southeast corner of the site behind the stormwater recharge basin. Please see sheet C1.0 for details.

• Clarify how many truck trips will be required to export material offsite.

RESPONSE: All clean "cut" material will be deposited in a regraded area near the southeast corner of the site behind the stormwater recharge basin. A minimal number of truck trips is anticipated to remove "construction debris" offsite.

#### 14. Miscellaneous:

• It the trash compactor the only refuse disposal area associated with the supermarket, or are dumpsters also utilized? If so, where are they located?

RESPONSE: A concrete pad has also been proposed near the proposed cooler area for the food refuse containers. These food refuse containers are used to store wasted food products that are then recycled into animal feed.

#### **SITE PLAN REVIEW COMMENTS:**

In accordance with NYC RR Section 8 Part 617, the proposed project is classified as an Unlisted Action. Prior to any action by the Board, a SEQR Determination of Significance must be adopted. **RESPONSE: Duly noted.** 

We trust that the above information, the enclosed items, and the revised drawings answer the items posed by the comment letters. If you have any questions or require additional information, please feel free to contact our office. If you prefer, we would be willing meet with you in person to discuss the project in detail.

Best regards,

Daniel Peveraro, P.E.

Lauro Group



Engineers
Planners
Surveyors
Landscape Architects
Environmental Scientists

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June 27, 2017

#### VIA UPS

Mr. Daniel J. Peveraro, P.E. Sr. Project Manager, The Lauro Group One Suffolk Square 1601 Veterans Memorial Highway, Suite 330 Islandia, NY 11749

Re:

Carmel Shop Rite Center MC Project No. 17003316A

Dear Mr. Peveraro:

As requested, Maser Consulting has completed our traffic data collection and parking evaluation for the above referenced site located on NYS Route 52 in the Town of Carmel, New York. The following describes the data collection undertaken and our evaluation of parking conditions associated with the proposed net 18,840 square foot Shop Rite expansion, which we understand includes a retail area, storage cooler, vestibule area, and bottle return expansions. The following sections describe the tasks undertaken in our evaluation.

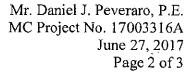
#### 1. Project Description and Location (Figures No. 1 and 1A)

The Shop Rite Supermarket is located within the existing Carmel Shopping Center, which is situated on the east side of NYS Route 52, south of Dykeman Road. The site currently consists of approximately 128,499 square feet and has approximately 679 parking spaces. In addition to Shop Rite, this center also includes other stores such as Rite Aid, Gold's Gym, Healthquest, a nail salon, restaurants, and the Carmel Cinemas. The center is currently served by two driveway connections to NYS Route 52 including a right turn entry, right turn exit driveway at the southerly end and a full movement, signalized intersection at the northerly end. The site location is identified on Figure No. 1 and the existing conditions are shown on Figure No. 1A.

The site's current total of 679 spaces and existing square footage equates to an existing parking ratio provided of approximately 5.28 per 1,000 square feet. Note that the Town code requirement is 6 spaces per 1,000 square feet, which would require some 885 spaces for this center. With the expansion, the total proposed square footage will be 147,339 square feet, including the 17,336 square foot addition to the Shop Rite store and 1,760 net square foot vestibule, bottle return, and storage cooler expansion.

# Existing Traffic and Parking Conditions (Tables No. P-1 and P-2 & Figures No. 2 and 3 and P-1)

Turning movement traffic counts were collected at the site driveways on Thursday, June 8, 2017 and Saturday, June 10<sup>th</sup>, 2017 to identify current traffic movement volumes. The





counts were collected between the hours of 3:30 PM and 6:30 PM on June 8 and between 11:00 AM and 3:00 PM on June 10, 2017. A summary of the peak hour turning movement volumes for each of these PM and Saturday peak hour periods at the driveways is shown on Figures No. 2 and 3. Copies of the counts are contained in Appendix "C". These counts were also compared with historical data for the site (Table No. T-1) and found to be generally consistent with previous entering and exiting volumes obtained at the center. Note that at the time of the counts, the building areas of the shopping center appeared to be fully occupied. In addition to the traffic volume surveys, observations of existing parking conditions were collected at the site. These observations were collected on Tuesday, June 13 between 3:00 PM and 6:00 PM and Saturday, June 17, 2017 between 11:00 AM and 3:00 PM. The current utilization and availability were identified for individual areas of the site, which are labeled on Figure P-1, as well as for the overall site, and are summarized in Tables No. P-1 and P-2. Additionally, these data were compared to the shopping center's overall lot capacity and plotted on an hourly basis, as shown in Figures P-1 and P-2. Based on the field observations, the peak occupancy on the site was observed at approximately 353 spaces or approximately 55% of capacity. However, it should be noted that a large portion of the vacant spaces are located at the southerly end of the center, near the cinema.

#### 3. Future Conditions with Expansion (Table P-3)

Based on the proposed expansion, and considering the existing trip and parking generation, the site would expect to generate some additional volumes, but since much of the additional space that is proposed is being provided to improve the efficiency and layout of the store and will likely not generate additional trips at the same rate as the existing facility.

In terms of parking utilization as previously noted, the Town code currently requires a provision of 6 spaces for every 1,000 square feet of floor area and the site currently provides a ratio of approximately 5.25. Based on information published by the Institute of Transportation and Engineers (ITE), ULI, the ENO Foundation, and other entities, typical parking demands for shopping centers are significantly lower with peak ranges between 4.0 and 5.0 spaces per 1,000 square feet, which are lower than the code and somewhat more in line with the ratio currently provided on the site. Based on the utilization survey, the observed peak parking utilization occupancy at the site of 353 spaces equates to a parking ratio of approximately 2.75. Adjusting for any seasonal variation, the peak parking utilization would still be expected to be around 400 spaces, which would still leave unoccupied spaces available on the site. Table P-3 provides a summary of the projected parking utilization after the expansion.

#### 4. Summary and Conclusions (Table P-4)

Based on a review of the site plan, traffic volumes, and parking conditions, including comparison with other historical data, the proposed 18,840 square foot addition should be adequately accommodated with the overall parking on site (Table No. P-3). This is based



Mr. Daniel J. Peveraro, P.E. MC Project No. 17003316A June 27, 2017 Page 3 of 3

on the current peak parking utilization of 2.72, conservatively assuming that this would generate at a rate comparable to the current overall center.

As mentioned previously, it was observed that a large portion of the vacant parking spaces on site are located in the southern-most parking area, Parking Area 3, as identified on Figure No. P-1, which is at a substantial distance from the Shop Rite entrance and likely would not be utilized by patrons of the supermarket. Therefore, an additional parking capacity analysis was performed, discounting the underutilized spaces at the south end of the site, i.e. in the area we designated as Parking Area 3. Table No. P-4 summarizes conditions discounting the spaces in that area. Considering the results of the analysis, and evaluating with a conservative parking demand ratio due to the nature of the expansion (refer to Section 3 above), the proposed net 18,840 square foot addition should be accommodated within the other parking areas located on site, even discounting Parking Area 3. However, the following recommendations are made to help accommodate increased parking demand generated by the expansion:

- 1. A review of the site plan indicated that there were some areas in closer proximity to the store where an additional 8 to 10 parking spaces could be obtained. The revised site now depicts 10 additional proposed parking spaces.
- 2. It should be noted that the proposed store entrance modifications indicated on the site plan would also help improve access to and from the parking areas.

If you have any questions regarding this, please do not hesitate to contact us.

Very truly yours,

MASER CONSULTING P.A.

Philip J. Grealy, Ph.D. P.E. Principal/Department Manager

PJG/ces Enclosures

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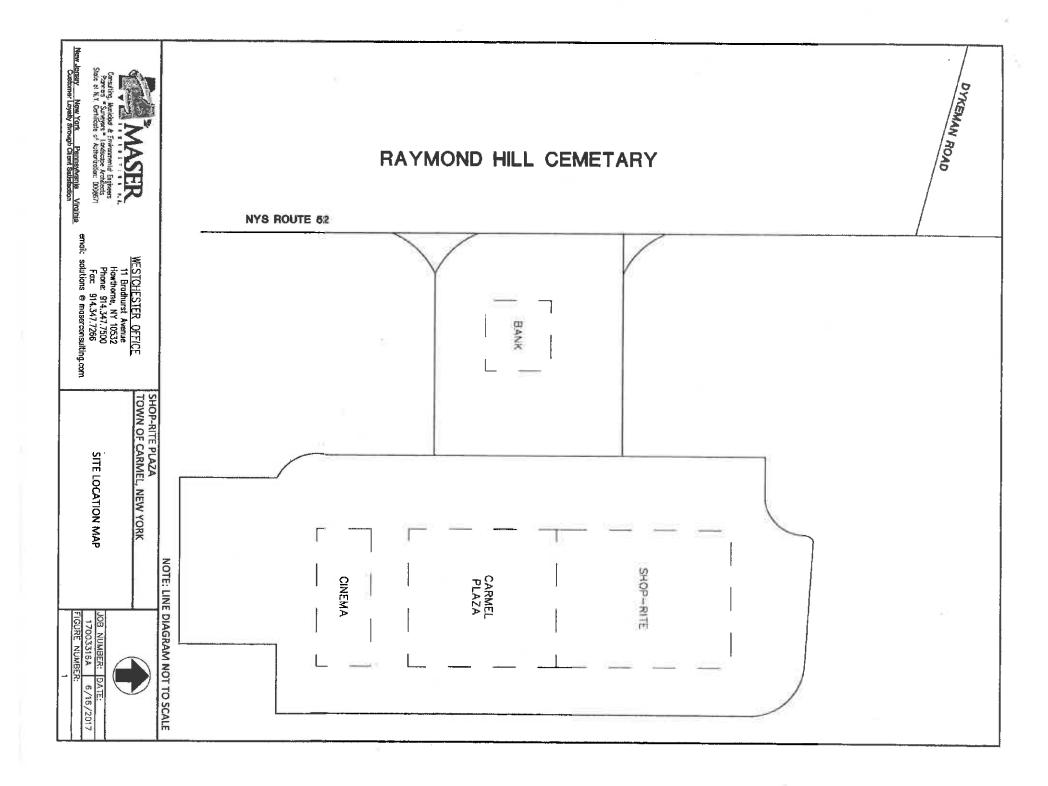


Parking Study CARMEL SHOP RITE CENTER MC Project No.: 17003316A

Appendix

### **CARMEL SHOP RITE CENTER**

# APPENDIX A FIGURES







Customer Loyalty fhrough Client Satisfaction

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andscape Architects # Environmental Scientists

Accorder Loyaley Minough Cilent Satisfaction

www.masercansulting.com

Engineers elemens a Surveyors
sope Architects is Environmental Scientists

Marmora, N
Marmora,

Office Locations:

EXISTING PARKING AREAS FOR SHOP-RITE PLAZA

> TOWN OF CARMEL PUTNAM COUNTY NEW YORK



PROTECT YOURSELF
ALLSTATES REQUARE NOTIFICATION
OF EXCAVATIONS DESIGNERS ON
ANY PEASON PREPARING TO
DISTURBED TO ELEMENT STAFF
ANYWHER PLANTS STAFF

Call before to de FOR STATE SPECIFIC DIRECT PHONE NUMBERS MIST. WWW.CALIST.COM

ALBANY OFFICE 12 Matrix Park Road Sunte 104 Albany, NY | 2205

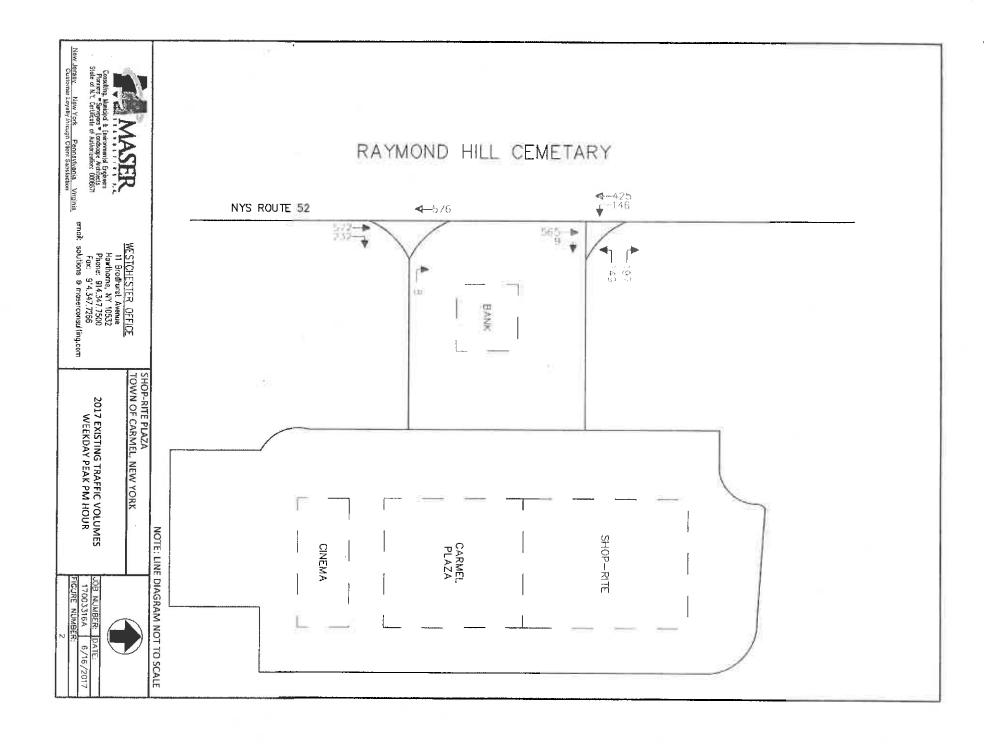
Phone: \$18 459 3252 Fax: \$18 459 3284

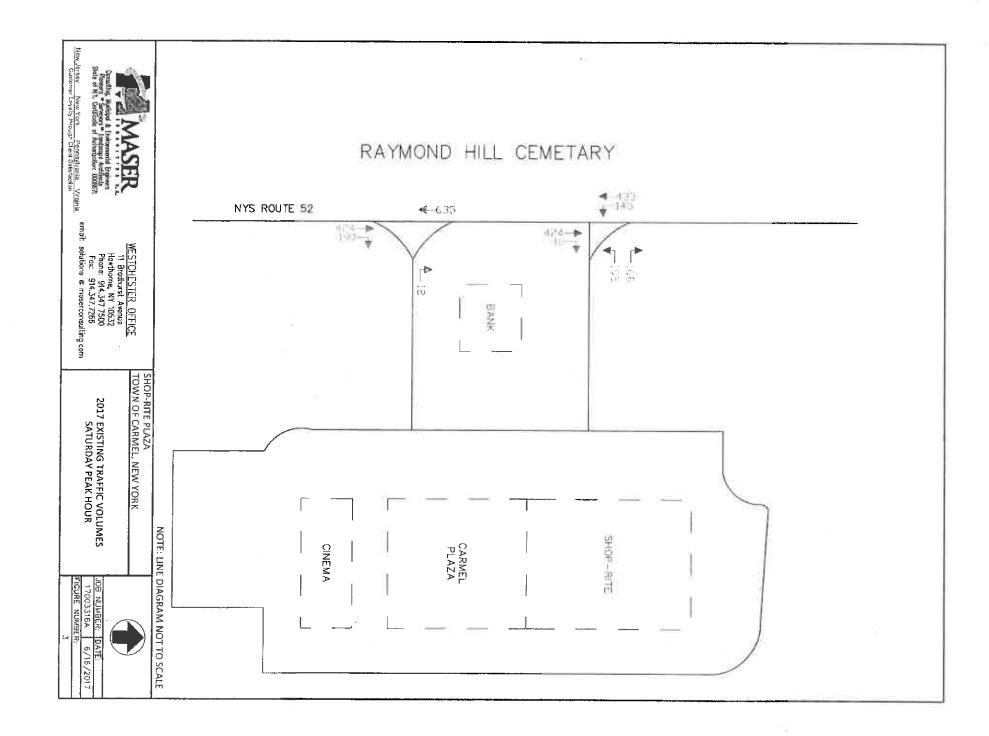
SHOP-RITE PLAZA

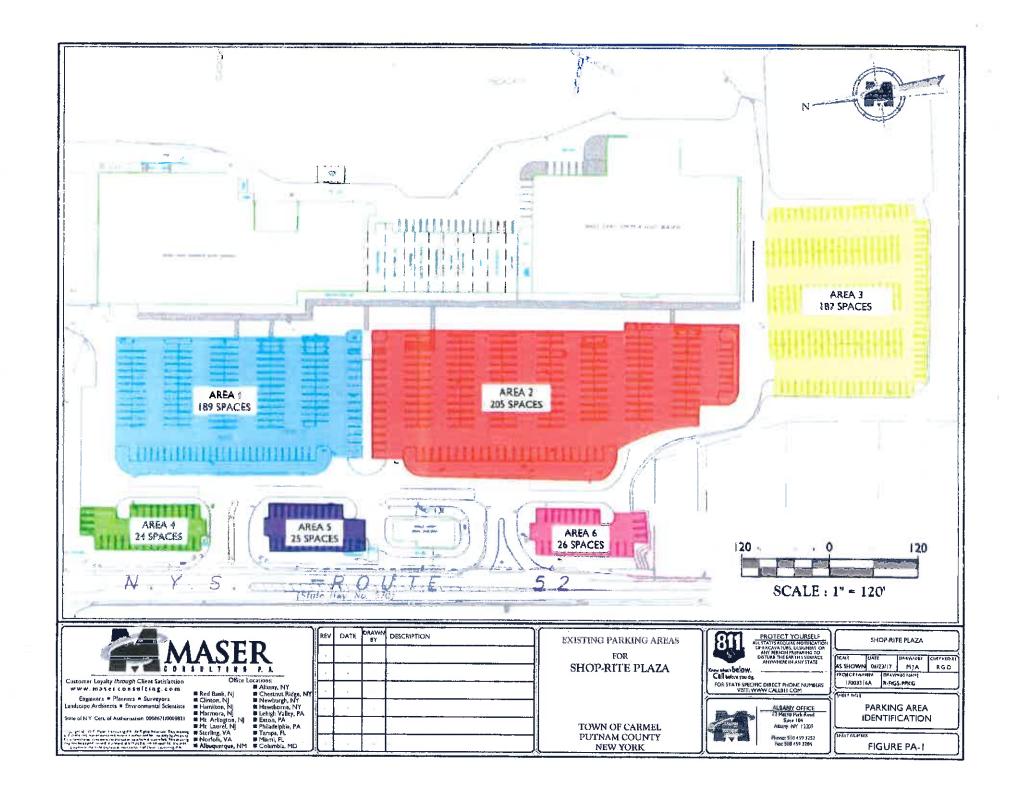
SCALE DATE DEANTEST AS SHOWN 06/23/17 HJA 17003316A R.LAYT-3

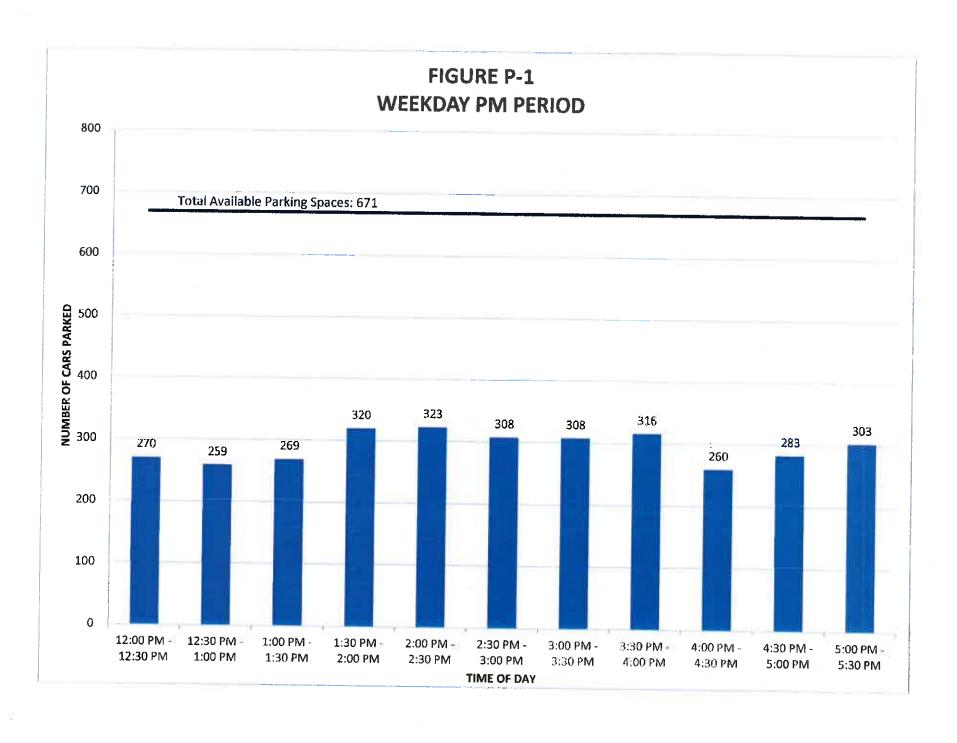
**EXISTING SITE CONDITIONS** 

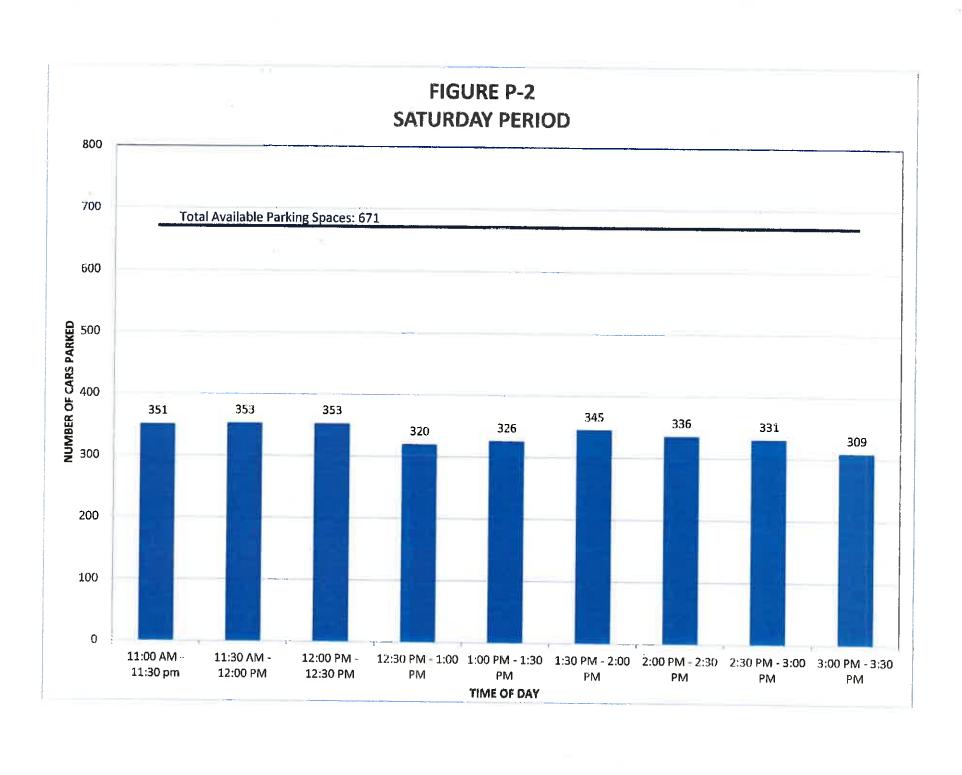
FIGURE IA













Parking Study CARMEL SHOP RITE CENTER MC Project No.: 17003316A

Appendix

## **CARMEL SHOP RITE CENTER**

# APPENDIX B

**TABLES** 

### **TABLE P-1**

#### SUMMARY OF SHOP RITE CENTER PARKING SPACE UTILIZATION (WEEKDAY CONDITIONS)

JOB#

17003316A

LOCATION: CARMEL, NY TUESDAY

DAY:

06/13/17

DATE: TIME:

12:00 PM - 5:30 PM

			PARK	NG AREA	CAPACI	TY *			]
	11	2	3	4	5	6	7	TOTAL	1
TOTAL SPACES	191	203	187	14	25	26	25	671	UNOCCU PIED
TIME			SPACE	S OCCUP	IED				SPACES
12:00 PM - 12:30 PM	113	108	10	17	6	1	15	270	401
12:30 PM - 1:00 PM	121	87	12	17	4	1	17	259	412
1:00 PM - 1:30 PM	120	96	11	18	5 .	1	18	269	402
1:30 PM - 2:00 PM	133	135	11	19	5	1	16	320	351
2:00 PM - 2:30 PM	124	135	22	18	5	2	17	323	348
2:30 PM ~ 3:00 PM	112	134	24	17	4	2	15	308	363
3:00 PM - 3:30 PM	123	131	22	11	4	2	15	308	363
3:30 PM - 4:00 PM	119	139	27	10	3	2	16	316	355
4:00 PM - 4:30 PM	105	103	22	10	3	2	15	260	411
4:30 PM - 5:00 PM	102	132	22	8	2	2	15	283	388
5:00 PM - 5:30 PM	110	143	21	9	2	3	15	303	368

<sup>(1)</sup> PARKING AREAS SHOWING SPACES OCCUPIED DURING EACH TIME INTERVAL BY AREA AND FOR OVERALL AREA. SEE FIGURE P-1 FOR IDENTIFICATION OF EACH AREA.

<sup>(2) \*</sup> BASED ON RELATED FIELD REVIEW

#### TABLE P-2

#### SUMMARY OF SHOP-RITE SHOPPING CENTER PARKING SPACE UTILIZATION (SATURDAY CONDITIONS)

JOB# 17003316A

LOCATION: CARMEL, NY

DAY: DATE: TUESDAY 06/17/17

TIME:

11:00 AM - 3:30 PM

			PAI	RKING AREA	CAPACITY *				
	1	2	3	4	5	6	7	TOTAL	1
TOTAL SPACES	191	203	187	14	25	26	25	671	UNOCCU PIED
TIME			SPA	CES OCCUPIE	D				SPACES
11:00 AM - 11:30 pm	140	160	20	10	5	1	15	351	320
11:30 AM - 12:00 PM	141	156	20	11	7	1	17	353	318
12:00 PM - 12:30 PM	153	151	15	11	4	1	18	353	318
12:30 PM - 1:00 PM	157	126	4	12	4	1	16	320	351
1:00 PM - 1:30 PM	170	112	6	14	6	1	17	326	345
1:30 PM - 2:00 PM	163	147	3	14	2	1	15	345	326
2:00 PM - 2:30 PM	167	135	2	15	1	1	15	336	335
2:30 PM - 3:00 PM	165	130	2	14	3	1	16	331	340
3:00 PM - 3:30 PM	149	124	3	13	3	2	15	309	362

<sup>(1)</sup> PARKING AREAS SHOWING SPACES OCCUPIED DURING EACH TIME INTERVAL BY AREA AND FOR OVERALL AREA. SEE FIGURE P-1 FOR IDENTIFICATION OF EACH AREA.

<sup>(2) \*</sup> BASED ON RELATED FIELD REVIEW

Table No. P-3
Parking Rates per 1,000 s.f. of Carmel Shopping Center

	Peak Parking Lot Occupancy	Existing Parking Ratio (per 1,000 s.f.)	Projected Total Parking Occupancy - with Expansion (147,339 s.f.)	Net Available Spaces after Expansion (671 Total)
PM	323	2.52	372	299
SAT	353	2.75	406	265

Table No. P-4
Parking Rates per 1,000 s.f. of Carmel Shopping Center - Excluding Parking Area 3

	Peak Parking Lot Occupancy	Existing Parking Ratio (per 1,000 s.f.)	Projected Total Parking Occupancy - with Expansion (147,339 s.f.)	Net Available Spaces after Expansion (484 Total)
PM	309	2.41	356	128
SAT	342	2.67	394	90

Table No. T-1
2015 vs. Existing (2017) Enter/Exit Volume

		20	15	Existin	g - 2017
		Entering	Exiting	Entering	Exiting
N. Driveway	PM	149	352	155	346
IV. Driveway	SAT	169	334	155	363
S. Driveway	PM	257	13	232	8
3. Driveway	SAT	276	14	190	12

NOTE: 2015 DATA TAKEN FROM TRAFFIC STUDY CONDUCTED BY STAFF OF MASER CONSULTING, P.A.



Parking Study CARMEL SHOP RITE CENTER MC Project No.: 17003316A

Appendix

## CARMEL SHOP RITE CENTER

# APPENDIX C

**EXISTING TRAFFIC COUNTS** 

Maser Consulting 400 Columbus Avenue - Suite 180E Valhalla, NY 10595

File Name : 1-NYS\_ROUTE\_52\_AT\_CARMEL\_PLAZA-PM\_422476\_06-08-2017

Site Code :

Start Date : 6/8/2017

		DE	* *************************************				G	roups P	rinted- Lig	hts - Buses	- Irucks	<ul> <li>Pedes</li> </ul>	Irians		*** ***********************************						
		NYS	SROUTE	52				MEL PL					S ROUTE								
		F	rom Norti	h			F	rom Eas	t			F	rom Sout	h			F	rom Wes	st		
Start Time	Right	Thru	Left	Peds A	op. Total	Right	Thru	Left	Peds /	App Total	Right	Thru	Left	Peds A	p Total	Right	Thru	Left	Peds	App Total	Int Total
03:00 PM	0	107	31	0	138	39	0	39	0	78	3	130	Õ	Ô	133	0	Û	0	0	0	349
03:15 PM <sub>4</sub>	0	77	29	D	106	41	0	47	0	88	0	115	0	0	115	0	0	0	0	0	309
03:30 PM	0	114	30	0	144	33	٥	34	0	67	0	134	0	0	134	0	0	0	0	0	345
03,45 PM	0	105	36	0	141	40	0	37	1	78	3	122	0	. 0	125	Q.	0	0	0	0	344
Total	0	403	126	0	529	153	0	157	1	311	6	501	0	0	507	0	0	Ö	0	O.	1347
04:00 PM	0	113	27	Ð	140	46	0	36	0	82	2	143	0	٥	145	0	0	0	0	0	367
04:15 PM	0	106	39	0	145	41	0	29	1	71	1	118	0	0	119	0	0	0	0	0	335
04:30 PM	0	89	39	0	128	56	0	28	0	84	1	146	0	0	147	0	0	0	0	0	359
04.45 PM	0	104	26	D	130	16	0	34		B1	11	144	0	0	145	0	O	0	0	0	356
Total	0	412	131	0	543	189	0	127	2	318	5 .	551	0	O	556	0	0	0	0	0	1417
05:00 PM i	0	104	29	0	133	44	0	30	1	75	0	152	0	O	152	0	0	0	0	0	360
05:15 PM	0	83	37	0	120	49	0	31	0	80	2	167	0	0	169	0	0	0	0	0	369
05:30 PM	0	111	28	0	139	50	0	41	0	91	3	130	0	0	133	0	0	0	0	0	363
05 45 PM	0	121	40	0	161	47	0	42	0	89	٥	141	0	0	141	0	0	0	0	0	391

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04.45 PM	0	104	26	D	130	46	0	34	1	B1	1	144	0	0	145	. 0	. 0	0	Ö	0	356
Total	0	412	131	0	543	189	0	127	2	318	5.	551	0	0	556	0	0	0	0	0	1417
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05:15 PM 🛔	0	83	37	0	120	49	0	31	0	80	2	167	0	0	169	0	0	0	0	0 }	369
05:30 PM	0	111	28	0	139	50	0	41	0	91	3	130	0	0	133	0	0	0	0	0	363
05 45 PM	0	121	40	0	161	47	0	42	0	89	۵	141	0	0	141	0	0	0	0	_0	391
Total .	0	419	134	. 0	553	190	0	144	1	335	5	590	0	0	595	0	0	0	0	0	1483
06:00 PM	0	110	41	0	151	51	0	35	0	86	4	127	0	0	131	0	0	0	0	0	368
06:15 PM	0	74	34	O	108	46	0	40	0	86	0	117	. 0	0	117	0	0	0	0	0	311
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% Buses	0	1	0.2	0	0.8	0.5	0	0.4	0	0.4	0	1.5	0	0	1.5	0	0	0	0	0	1
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### **Maser Consulting**

#### 400 Columbus Avenue - Suite 180E Valhalla, NY 10595

Customer Ingant released Chent Satisfaction

File Name : 1-NYS\_ROUTE\_52\_AT\_CARMEL\_PLAZA-PM\_422476\_06-08-2017

Site Code :

Start Date : 6/8/2017

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Maser Consulting 400 Columbus Avenue - Suite 180E Valhalla, NY 10595

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Site Code :

Start Date : 6/10/2017

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Buses	0	0	2	0	2	5	0	0	0	5	0	0	0	0	0	0	0	0	0	n .	
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Trucks	0	22	0	0	22	2	0	3	0	5	0	26	0	0	26	0	0	0	ō	n	5
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# Maser Consulting 400 Columbus Avenue - Suite 180E Valhalla, NY 10595

Construction of the statistics 
File Name: 1-NYS\_ROUTE\_52\_AT\_CARMEL\_PLAZA-SAT\_422477\_06-10-2017

Site Code :

Start Date : 6/10/2017

1			ROUTE			Change trans.		RMEL PL					ROUTE					# V -CO. STANSPORT - 1/2 - 1/4 BirgaryA			İ
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Peak Hour for Entire	e Intersect	ion Begir	ns at 12:0	10 PM																	
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### **Maser Consulting**

#### 400 Columbus Avenue - Suite 180E Valhalla, NY 10595

File Name: 2-NYS\_ROUTE\_52\_AT\_CARMEL\_PLAZA\_RIGHT\_TURN\_ENTRY\_EXIT\_ONLY-PM\_422478\_06-08-2017

Site Code :

Start Date : 6/8/2017

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03:00 PM	0	149	0	0	149	3	0	1	1	5	57	127	0	o '	184	0	0	0 '	0	0	33
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04:45 PM	0	138	0	0	138	2 .	0	0	1	3	43	141	0	0	184	Ø	0	0	0	0	32
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05:30 PM	0	152	0	0	152	2	0	0	0	2	48	134	0	0	182	0	0	0	0	ō	33
05 45 PM	0	163	. 0	0	163	1	0	0	0	1	49	140	0	0	189	0	0	0	0	0	35
Total	0	565	0	0	565	9	0	0	0	9	219	590	0	0	809	Ö	0	0	0	0	138
06:00 PM	0	143	0	0	143	ì	0	0	0	1	60	135	0	0	195	0	0	0	0	0	33
06:15 PM	0	115	0	0	115	3	0	0	0	3	46	105	0	0	151	0	0	0	0	Ō	26
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% Buses	······································	0.6	0	0	0.6	2.7		0	0	2.3	0.6	1.4	0	. 0	1.2	0	0	0	0	0	0,
Trucks	0	30	0	0	30	2	0	0	0	2	4	33	0	0	37	0	0	0	0	0	6
% Trucks	0	16	<u> </u>	0	16,	_ 54	0	0	0	4.5	0.6	1.8	0	0	14	0	0	Q	0_	0	1
Pedestrians	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	
% Pedestrians :	0	0	0	Q	0	0	0	0	100	6.8	0	0	0	0	0 {	0	0	0	0	0	0.

Maser Consulting 400 Columbus Avenue - Suite 180E Valhalla, NY 10595

File Name: 2-NYS\_ROUTE\_52\_AT\_CARMEL\_PLAZA\_RIGHT\_TURN\_ENTRY\_EXIT\_ONLY-PM\_422478\_06-08-2017

Site Code :

Start Date : 6/8/2017

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Start Time	Right	Thru	Left	Peds /	App Total	Right	Thru	Left	Peds   Ar	p Total	Right:	Thru	Left	Peds A	op Total	Right	Thru	Left	Peds App	Total	Int Total
Peak Hour Analysis	s From 03:	00 PM to	06:15 PN	1 - Peak 1	of 1																
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05:15 PM	0	118	0	0	118	. 4	0	0	0	4	75	163	0	0	238	0	0	0	0	0.	360
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05:45 PM	0	163	0	0	163	1	0	0	0	1	49	140	0	0	189	- 0	0	0	0	0	353
06:00 PM	G	143	0	0	143	1	0	0	00	1	60	135	0	0	195	0	0	0	0	0	339
Total Volume	0	576	D	0	576	8	0	0	0	8	232	572	0	0	804	0	0	0	0	0	1388
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Lights	0	568	0	0	568	7	0	0	0	7 [	228	564	0	0	792	0	0	0	0	0	1367
% Lights	0	98.6	0	0	98.6	87.5	0	0	0	87.5	98 3	986	0	0	98.5	0	0	Q	0	0 -	98,5
Buses	0	2	0	0	2	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0 :	3
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Trucks	0	6	0	0	6	1	0	0	0	1	3	8	0	0	11	0	0	0	0	0	18
% Trucks	0	1.0	0	0	1.0 j	12.5	0	0	0	12.5	13	14	0	0	1.4	0	0	0	0	0	1 3
Pedestrians	0	0	0	0	0	0	0	0	0	0 [	0	0	0	0	0	0	0	0	0	0	0
% Pedestrians	0	0	0	0	0	0	0	0	0	0 }	0	0	0	0	0 i	0	0	0	0	0	0

Maser Consulting 400 Columbus Avenue - Suite 180E Valhalla, NY 10595

File Name: 2-NYS\_ROUTE\_52\_AT\_CARMEL\_PLAZA\_RIGHT\_TURN\_ENTRY\_EXIT\_ONLY-SAT\_422479\_06-10-2017

Site Code :

Start Date : 6/10/2017

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11:00 AM	0	130	0	0	130	1	0	0	0	1	49	101	0	0	150	0	0	0	n	0	281
11:15 AM	0	142	0	0	142	. 1	0	1	0	2	43	99	0	0	142	Ō	ã	Õ	ā	ŏ	286
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11:45 AM	0	142	0	0_	142	5,	0	0	00	5.	44	100	. 0	0	144	0	0	0	ò	Ö	291
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12:30 PM	0	141	0	0	141	4	0	0	0	4	48	115	Õ	ŏ	163	ñ	n	ñ	ñ	ň	308
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01:30 PM	0	134	0	0	134	2	0	1	0	3	40	117	0	Ö	157	Õ	ō	ō	ň	ŏ	294
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Total	0	541	0	0	541	5	0	1	0	6 -	175	445	0	0	620	0	0	0	0	0	1167
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Lights	0	1713	1	0	1714	29	0	3	0	32	543	1243	0	0	1786	0	0	0	ā.	ō	3532
% Lights	0	98 4	100	0	98.4	100	0	100	0	100	98.5	97 8	00	0	98	0	.0	0	0	Ö	98.2
Buses	0	3	D	0	3	0	0	0	0	0 1	3	0	0	0	3	0	0	0	0	D	6
% Buses	0	0.2	0	0	0.2	0	0	0	0	0	0.5	0	0	0	02	00	0	0	0	0	0.2
Trucks	0	25	0	0	25	0	0	0	0	0	5	28	0	0	33	0	0	O	0	0	58
% Trucks	0	1 4	0	<u>o</u> _	14	0	0	0	0	0	0.9	2,2	0	00	1.8	0	0	0	0	0	1.6
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### **Maser Consulting**

#### 400 Columbus Avenue - Suite 180E Valhalla, NY 10595

File Name: 2-NYS\_ROUTE\_52\_AT\_CARMEL\_PLAZA\_RIGHT\_TURN\_ENTRY\_EXIT\_ONLY-SAT\_422479\_06-10-2017

Site Code :

Start Date : 6/10/2017

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Start Time	Right	Thru	Left	Peds A	pp. Total	Right	Thru	Left	Peds	App Total	Right	Thru	Left	Peds A	pp. Total	Right	Thru	Left	Peds   A	pp Total	Int Total
Peak Hour Analysis	From 12:	00 PM to	01:45 PN	/ - Peak 1	of 1																
Peak Hour for Entir	e intersec	tion Begir	ns at 12:0	0 PM														_	_	- 1	
12:00 PM :	0	185	1	0	186	2	0	1	0	3	45	113	0	0	158	0	0	0 -	ū	0 [	347
12 15 PM	0	169	0	0	169	3	0	0	0	3	57	93	0	0	150	0	0	0	0	0 }	322
12:30 PM	0	141	0	0	141	. 4	0	0	0	4	48	115	0	0	163	0	0	0	0	0	308
. 12 45 PM	0	140	0	. 0	140	3	0	0	0	3	40_	103	0_	00	143	0	C	0	Q	01	286
Total Volume	0	635	1	0	636	12	0	1	0	13	190	424	0	Q	614	0	0	0	0	0 1	1263
% App Total	0	99.8	0.2	0	,	923	0	7.7	0	THE PERSON NAMED IN	30.9	69.1	0	0		0	. 0				
PHF	000	858	250	000	855	.750	000	250	000	.813	833	.922	.000	.000	942	000	.000	000	000	.000	910
Lights	0	623	1	C	624	12	0	1	0	13	188	417	0	0	605	0	0	0	Ü	0 1	1242
% Lights	0	98.1	100	0	98 1	100	0	100	0	100	98.9	98 3	0	0	98.5	0	0	Û	Ü	0 1	98 3
Buses	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	U	U	0	0	Ü	2
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Trucks	0	10	0	0	10	0	0	0	0	0	. 2	. 7	0	0	9	0	Ü	0	Ů,	Ų į	18
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June 21, 2017

Mr. Wilson Rugel ShopRite Supermarkets, Inc. 176 North Main Street Florida, NY 10921

Re: Shoprite Supermarket - Carmel, NY

Dear Mr. Rugel:

We have reviewed the water and waste requirements based on existing conditions compared to the new proposed fixture plan layout, see below for comparisons:

Fixture	Drainage Fixture Units (DFU)	Water Supply Fixtures (WSF)	Qty Existing	Qty Existing + New	Total DFU Existing	Total DFU New	Total WSF Existing	Total WSF New
Comp Sink	4	4	14	18	56	72	56	72
Hand Sink	2	3	7	10	14	20	21	30
Water Closet	4	10	4	3	16	12	40	30
Urinal	4	10	4	3	16	12	40	30
Mop Sink	2	3	1	_ 1	2	2	3	3
Lavatory	1	2	10	10	10	10	20	20
Kitchen Sink	2	3	1	1	2	2	3	3
Drinking Fountain	0.5	0.25	2	2	1	1	0.5	0.5
Floor Drains	5		12	18	60	90	0	0
Total	24.5	35.25	55	66	177	221	183.5	188.5

Additional DFU's

44

Additional WSF's

As you can see from the tables above the total estimated existing waste equals 177 DFU's, new fixture plan equals 221 DFU's. This results in an increases of 44 DFU's, equating to approximately 22 gallons per minute. The total estimated existing water equals 183.5 WSF's; new fixture plan equals 188.5 WSF's. This results in an increase of 5 WFS's, equating to approximately 2.5 gallons per minute.

ShopRite Supermarket - Carmel, NY June 21, 2017 Page 2

Based on our calculated analysis, the impact to both the sanitary and domestic water systems results in no required alterations and/or upgrades.

If you have any additional questions or comments please do not hesitate to contact this office.

Regards,

Vince Castaldo

Engineered Design Group

Vince Castaldo

#### **Water Quality Volume**

#### New Development

$$WQ_{v} = \frac{(P)(Rv)(A)}{12} =$$

where

Rv = 0.05 + 0.009(I)

l= Impervious Cover (%)
Minimum Rv = 0.2 if WQv > RRv
P(inch) = 90% Rainfall Event Number

A = Site Area in Acres

A<sub>P</sub>= 0.34 acres of pervious cover

 $A_{l}$ = 1.40 acres of impervious cover

P= 1.45 inches

A = 1.74 acres

l= 80.46

Rv= 0.774138

$$WQ_v = \frac{(P)(Rv)(A)}{12} = 0.1628$$
 ac-ft = 7089.93 CF

### **Water Quality Volume**

#### **Channel Protection Volume**

	$Q_{peak}$	Volume (cf)	Volume (Ac-Ft)
1 year, 24 hour storm (Proposed Conditions) =	0	0	0.000
1 year, 24 hour storm (Existing Conditions) =	2.930	8,762	0.201
Difference=	-2.93	-8762	-0.201

#### Overbank Flood

	$\mathbf{Q}_{peak}$	Volume (cf)	Volume (Ac-Ft)
10 year storm (Proposed Conditions) =	6.903	8,290	0.190
10 year storm (Existing Conditions) =	7.599	23,140	0.531
Difference=	-0.696	-14850	-0.341

#### Extreme Storm

	$\mathbf{Q}_{peak}$	Volume (cf)	Volume (Ac-Ft)
100 year storm (Proposed Conditions) =	12.940	22,635	0.520
100 year storm (Existing Conditions) =	13.210	41,432	0.951
Difference=	-0.270	-18797	-0.432

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Proposed

	0.985 Acres Impervious	0.753 Acres Pervious	1.738	1.400 Acres Impervious	0.338 Acres Pervious	1.738
%	0.567	0.433		0.805	0.195	<u> </u>
	42915 SF Impervious	32799 SF Pervious	75714	60982 SF Impervious	14732 SF Pervious	75714

Total Area to be Distrubed 75714 sf 1.74 acres

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2016 by Autodesk, Inc. v10.5

Wednesday, 06 / 28 / 2017

Watershed Model Schematic	. 1
Hydrograph Return Period Recap	. 2
1 - Year Summary Report	4 5 6
10 - Year Summary Report	. 9 . 9
100 - Year Summary Report Hydrograph Reports	13 13 14
IDF Report	16

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2016 by Autodesk, Inc. v10.5





#### Legend

<u>Hyd.</u>	<u>Origin</u>	Description
1	SCS Runoff	<b>Existing Conditions</b>
2	SCS Runoff	Proposed Conditions
3	Reservoir	Proposed WQV

Project: SR Carmel\_Hydroflow\_Rev 3b.gpw

Wednesday, 06 / 28 / 2017

Proj. file: SR Carmel\_Hydroflow\_Rev 3b.qpw

Wednesday, 06 / 28 / 2017

yd. o.	Hydrograph	Inflow			Hydrograph						
o. 	type (origin)	hyd(s)	1-yr	2-yr	3-yr	5-yr	10-yr	25-уг	50-yr	100-yr	Description
1	SCS Runoff		2.930	4.077		5.994	7.599	9.831	11.52	13.21	Existing Conditions
2	SCS Runoff		3.220	4.388		6.321	7.926	10.15	11.83	13.51	Proposed Conditions
3	Reservoir	2	0.000	0.451		3.539	6.903	9.682	11.30	12.94	Proposed WQV
											2
									i		
							=				55
								_			

# Hydrograph Summary Report Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2016 by Autodesk, Inc. v10.5

lyd. Io.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	2.930	2	724	8,762				Existing Conditions
2	SCS Runoff	3.220	2	724	9,629			*****	Proposed Conditions
3	Reservoir	0.000	2	546	0	2	575.12	4,392	Proposed WQV
SR.	Carmel_Hyd	roflow R	ev 3h an	M	Return	Period: 1 Y	/oor	Wednesda	ay, 06 / 28 / 2017

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2016 by Autodesk, Inc. v10.5

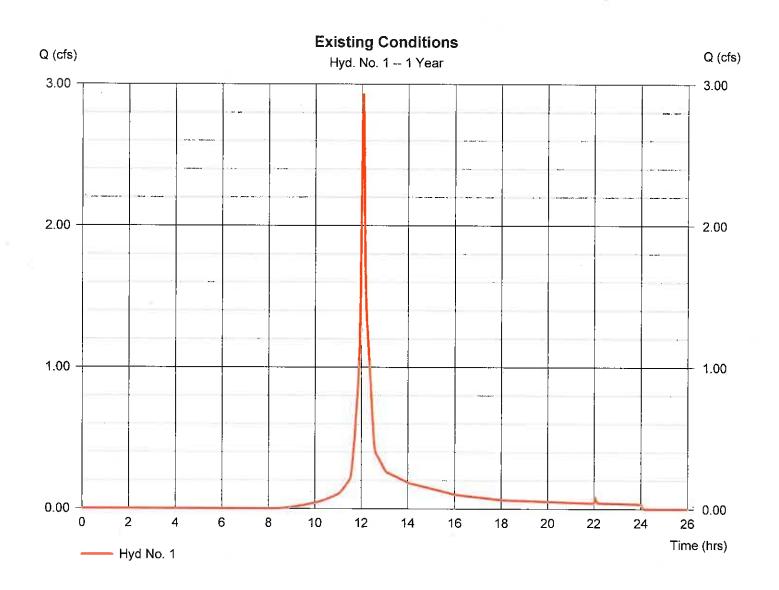
Wednesday, 06 / 28 / 2017

## Hyd. No. 1

#### **Existing Conditions**

Hydrograph type = SCS Runoff Peak discharge = 2.930 cfsStorm frequency = 1 yrsTime to peak  $= 12.07 \, hrs$ Time interval = 2 min Hyd. volume = 8,762 cuft Drainage area = 1.740 acCurve number = 85\* Basin Slope = 27.0 % Hydraulic length  $= 315 \, ft$ Tc method Time of conc. (Tc) = User  $= 6.00 \, \text{min}$ Total precip. = 2.87 inDistribution = Type III Storm duration = 24 hrs Shape factor = 484

<sup>\*</sup> Composite (Area/CN) = [(0.985 x 98) + (0.279 x 77) + (0.474 x 61)] / 1.740



Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2016 by Autodesk, Inc. v10.5

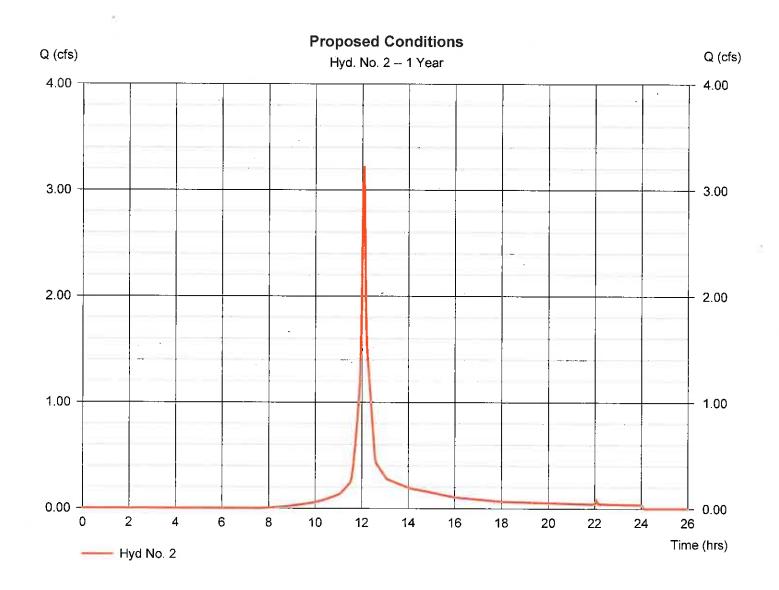
Wednesday, 06 / 28 / 2017

#### Hyd. No. 2

#### **Proposed Conditions**

Hydrograph type = SCS Runoff Peak discharge = 3.220 cfsStorm frequency = 1 yrsTime to peak  $= 12.07 \, hrs$ Time interval = 2 min Hyd. volume = 9.629 cuftDrainage area = 1.740 acCurve number = 87\* Basin Slope = 30.0 % Hydraulic length  $= 285 \, ft$ Tc method Time of conc. (Tc) = User  $= 6.00 \, \text{min}$ Total precip. = 2.87 inDistribution = Type III Storm duration = 24 hrs Shape factor = 484

<sup>\*</sup> Composite (Area/CN) =  $[(1.400 \times 98) + (0.338 \times 39)] / 1.740$ 



Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2016 by Autodesk, Inc. v10.5

Wednesday, 06 / 28 / 2017

## Hyd. No. 3

Proposed WQV

Hydrograph type Storm frequency Time interval = Reservoir = 1 yrs Peak discharge Time to peak = 0.000 cfs = 9.10 hrs

Inflow hyd. No.

= 2 min

Hyd. volume Max. Elevation

= 0 cuft = 575.12 ft

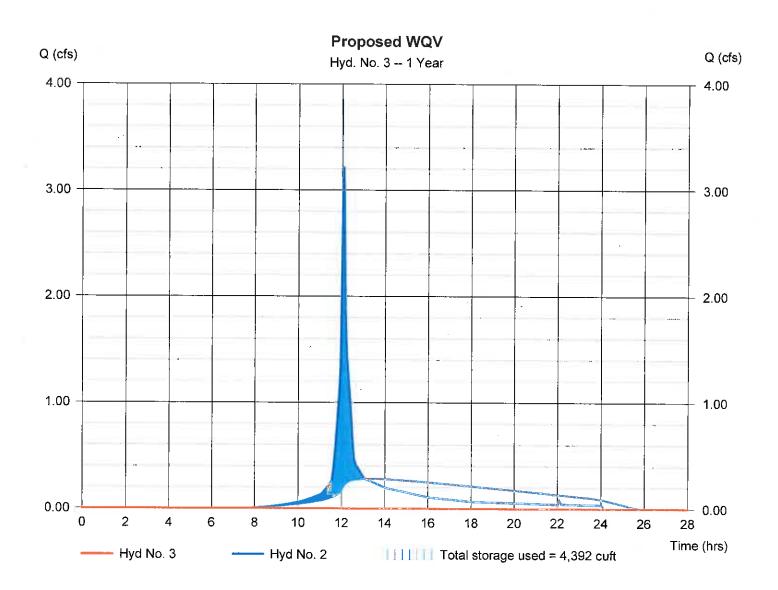
Reservoir name

= 2 - Proposed Conditions= Proposed WQV Detention

Max. Storage

= 4,392 cuft

Storage Indication method used. Exfiltration extracted from Outflow.



Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2016 by Autodesk, Inc. v10.5

Wednesday, 06 / 28 / 2017

#### Pond No. 1 - Proposed WQV Detention

#### **Pond Data**

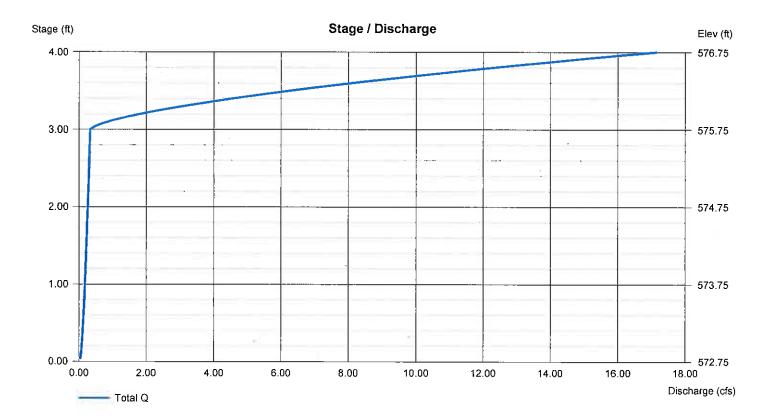
UG Chambers -Invert elev. = 572.75 ft, Rise x Span = 4.00 x 4.00 ft, Barrel Len = 130.50 ft, No. Barrels = 4, Slope = 0.00%, Headers = Yes

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	572.75	n/a	0	0
0.40	573.15	n/a	371	371
0.80	573.55	n/a	642	1,014
1.20	573.95	n/a	782	1,796
1.60	574.35	n/a	862	2,657
2.00	574.75	n/a	900	3,558
2.40	575.15	n/a	900	4,458
2.80	575.55	n/a	861	5,319
3.20	575.95	n/a	782	6,101
3.60	576.35	n/a	643	6,744
4.00	576.75	n/a	370	7,114

#### **Culvert / Orifice Structures Weir Structures** [A] [B] [C] [PrfRsr] [A] [B] [C] [D] Rise (in) = 0.00 0.00 0.00 0.00 Crest Len (ft) = 5.00 0.00 0.00 0.00 Span (in) = 0.000.00 0.00 0.00 Crest El. (ft) = 575.75 0.00 0.00 0.00 No. Barrels = 1 Weir Coeff. = 3.333.33 3.33 3.33 Invert El. (ft) = 572.75 0.00 0.00 0.00 Weir Type = Rect Length (ft) = 0.000.00 0.00 0.00 Multi-Stage = No No Nο No Slope (%) = 0.000.00 0.00 n/a N-Value = .013 .013 .013 n/a Orifice Coeff. = 0.600.60 0.60 0.60 Exfil.(in/hr) = 3.000 (by Wet area) Multi-Stage = n/aNo Νo No TW Elev. (ft) = 0.00

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).



Hydrograph Summary Report
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2016 by Autodesk, Inc. v10.5

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	7.599	2	724	23,140				Existing Conditions
2	SCS Runoff	7.926	2	724	24,375			1711111	Proposed Conditions
3	Reservoir	6.903	2	726	8,290	2	576.31	6,674	Proposed WQV
SR	Carmel_Hydr	oflow_Re	v 3b.gpw	1	Return P	eriod:,10 \	/ear	Wednesday	v, 06 / 28 / 2017

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2016 by Autodesk, Inc. v10.5

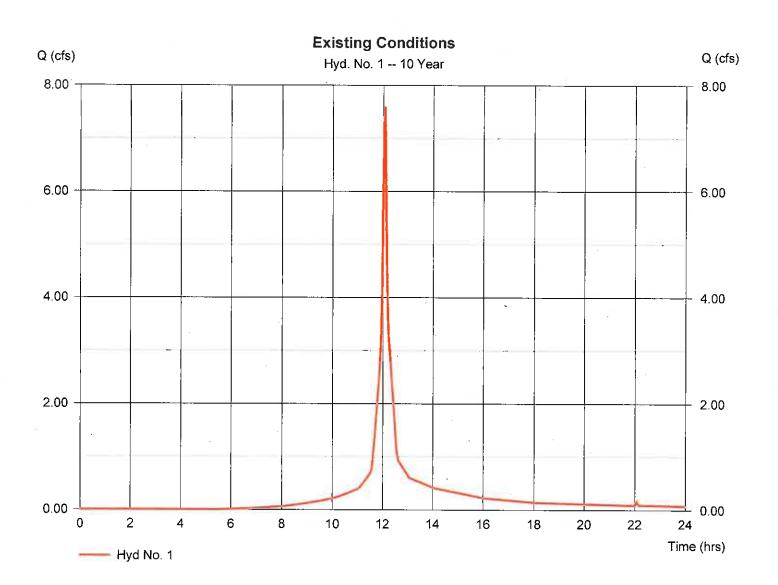
Wednesday, 06 / 28 / 2017

## Hyd. No. 1

## **Existing Conditions**

Hydrograph type = SCS Runoff Peak discharge = 7.599 cfsStorm frequency = 10 yrsTime to peak  $= 12.07 \, hrs$ Time interval = 2 min Hyd. volume = 23,140 cuft Drainage area = 1.740 acCurve number = 85\* Basin Slope = 27.0 % Hydraulic length  $= 315 \, ft$ Tc method Time of conc. (Tc) = User  $= 6.00 \, \text{min}$ Total precip. = 5.58 inDistribution = Type III Storm duration = 24 hrs Shape factor = 484

<sup>\*</sup> Composite (Area/CN) =  $[(0.985 \times 98) + (0.279 \times 77) + (0.474 \times 61)] / 1.740$ 



Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2016 by Autodesk, Inc. v10.5

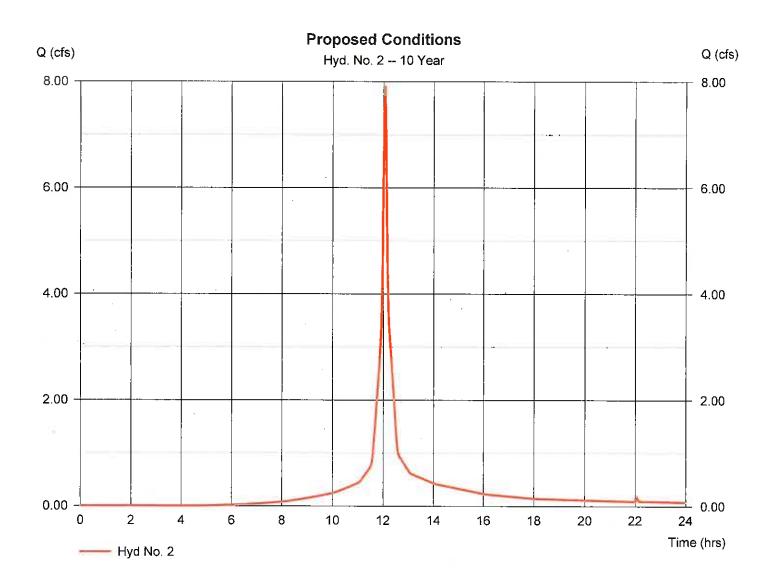
Wednesday, 06 / 28 / 2017

## Hyd. No. 2

## **Proposed Conditions**

Hydrograph type = SCS Runoff Peak discharge = 7.926 cfsStorm frequency = 10 yrsTime to peak = 12.07 hrsTime interval = 2 min Hyd. volume = 24,375 cuft Curve number Drainage area = 1.740 ac= 87\* Basin Slope = 30.0 % Hydraulic length  $= 285 \, ft$ Tc method = User Time of conc. (Tc) = 6.00 min Total precip. = 5.58 inDistribution = Type III Storm duration = 24 hrs Shape factor = 484

<sup>\*</sup> Composite (Area/CN) = [(1.400 x 98) + (0.338 x 39)] / 1.740



Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2016 by Autodesk, Inc. v10.5

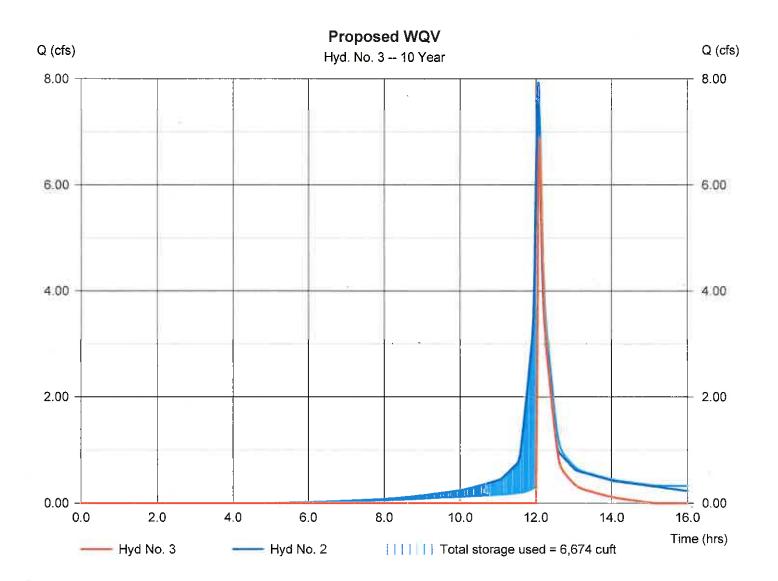
Wednesday, 06 / 28 / 2017

## Hyd. No. 3

Proposed WQV

Hydrograph type = Reservoir Peak discharge = 6.903 cfsStorm frequency Time to peak = 10 yrs $= 12.10 \, hrs$ Hyd. volume Time interval = 2 min = 8,290 cuft= 2 - Proposed Conditions Max. Elevation Inflow hyd. No.  $= 576.31 \, \mathrm{ft}$ = Proposed WQV Detention Reservoir name Max. Storage = 6,674 cuft

Storage Indication method used. Exfiltration extracted from Outflow.



# Hydrograph Summary Report Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2016 by Autodesk, Inc. v10.5

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	13.21	2	724	41,432				Existing Conditions
2	SCS Runoff	13.51	2	724	42,872				Proposed Conditions
3	Reservoir	12.94	2	724	22,635	2	576.60	6,971	Proposed WQV
								77	
							19		
00	Carmel_Hyd		n. 01-			Period: 100	\		y, 06 / 28 / 2017

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2016 by Autodesk, Inc. v10.5

Wednesday, 06 / 28 / 2017

= 13.21 cfs

## Hyd. No. 1

**Existing Conditions** 

Storm duration

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Time interval = 2 min
Drainage area = 1.740 ac
Basin Slope = 27.0 %
Tc method = User
Total precip. = 8.81 in

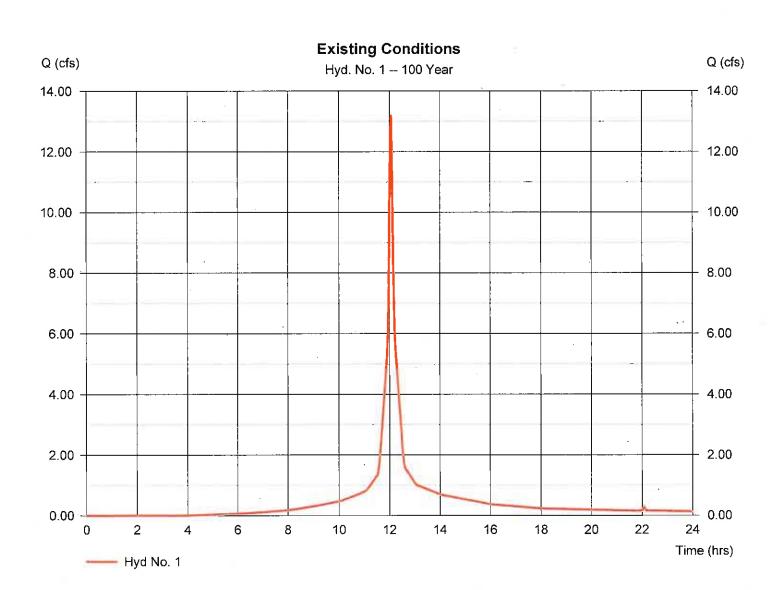
Time to peak
Hyd. volume

Curve number
Hydraulic length
Time of conc. (Tc)
Distribution
Shape factor

= 12.07 hrs
= 41,432 cuft
= 85\*
= 315 ft
= 6.00 min
= Type III
= 484

Peak discharge

= 24 hrs



<sup>\*</sup> Composite (Area/CN) = [(0.985 x 98) + (0.279 x 77) + (0.474 x 61)] / 1.740

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2016 by Autodesk, Inc. v10.5

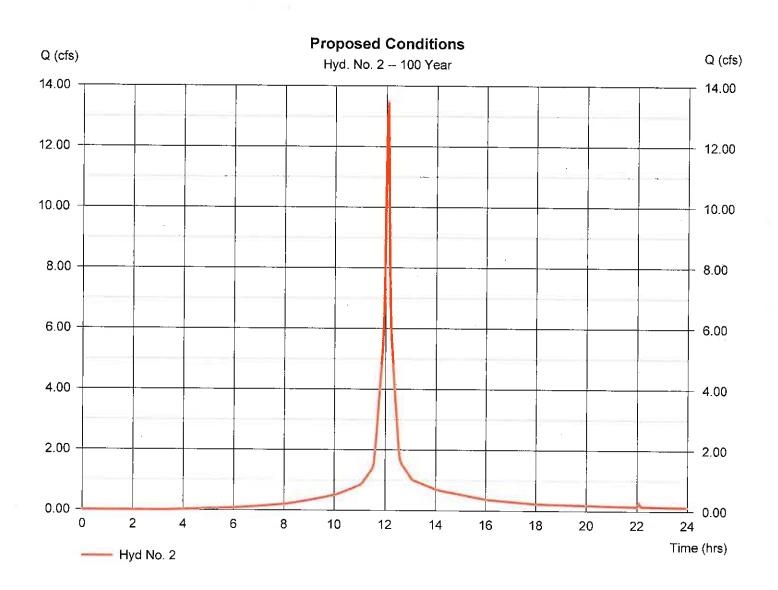
Wednesday, 06 / 28 / 2017

## Hyd. No. 2

#### **Proposed Conditions**

Hydrograph type = SCS Runoff Peak discharge = 13.51 cfsStorm frequency: = 100 yrsTime to peak = 12.07 hrsTime interval = 2 min Hyd. volume = 42,872 cuftDrainage area = 1.740 acCurve number = 87\* Basin Slope = 30.0 % Hydraulic length  $= 285 \, \text{ft}$ Tc method = User Time of conc. (Tc)  $= 6.00 \, \text{min}$ Total precip. = 8.81 inDistribution = Type III Storm duration = 24 hrs Shape factor = 484

<sup>\*</sup> Composite (Area/CN) =  $[(1.400 \times 98) + (0.338 \times 39)] / 1.740$ 



Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2016 by Autodesk, Inc. v10.5

Wednesday, 06 / 28 / 2017

## Hyd. No. 3

Proposed WQV

Hydrograph type Storm frequency

= Reservoir

Peak discharge

= 12.94 cfs

Time interval

= 100 yrs= 2 min

Time to peak Hyd. volume

 $= 12.07 \, hrs$ = 22,635 cuft

Inflow hyd. No.

= 2 - Proposed Conditions

Max. Elevation

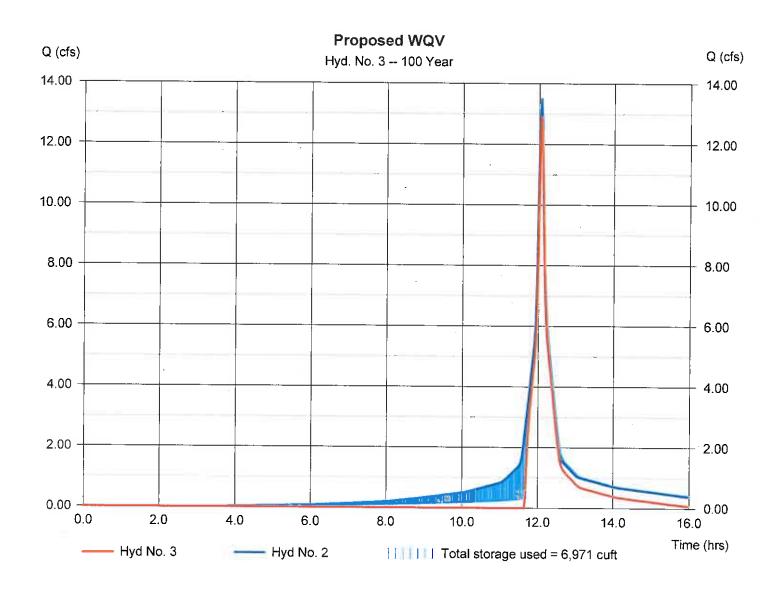
 $= 576.60 \, \text{ft}$ 

Reservoir name

= Proposed WQV Detention

Max. Storage = 6,971 cuft

Storage Indication method used. Exfiltration extracted from Outflow.



# **Hydraflow Rainfall Report**

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2016 by Autodesk, Inc. v10.5

Wednesday, 06 / 28 / 2017

Return Period	Intensity-Duration-Frequency Equation Coefficients (FHA)								
(Yrs)	В	D	E	(N/A)					
1	17.4950	4.2000	0.6438						
2	14.1760	1.1000	0.6004	2001153					
3	0.0000	0.0000	0.0000						
5	9.8934	0.1000	0.4160						
tO	158.3613	16.8000	1.0313						
25	42.0902	6.9000	0.6815						
50	3331.3621	40.1000	1.5709	******					
100	240.0006	20.0000	1.0000						

File name: IDF Curve Warwick NY.IDF

#### Intensity = B / (Tc + D)^E

Return Period	Intensity Values (in/hr)												
(Yrs)	5 min	10	15	20	25	30	35	40	45	50	55	60	
1	4.19	3.17	2.61	2.25	1.99	1.80	1.65	1.53	1.42	1.34	1.26	1.20	
2	4.79	3.34	2.67	2.27	2.00	1.80	1.65	1.52	1.42 .	1.34	1.26	1.20	
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	5.02	3.78	3.20	2.84	2.59	2.40	2.25	2.13	2.03	1.94	1.87	1.80	
10	6.60	5.33	4.47	3.84	3.37	3.00	2.70	2.46	2.25	2.08	1.93	1.80	
25	7.78	6.13	5.14	4.47	3.98	3.60	3.30	3.06	2.85	2.68	2.53	2.40	
50	8.40	7.12	6.13	5.35	4.72	4.20	3.77	3.41	. 3.10	2.83	2.60	2.40	
100	9.60	8.00	6.86	6.00	5.33	4.80	4.36	4.00	3.69	3.43	3.20	3.00	

Tc = time in minutes. Values may exceed 60.

Precip. file name: Z:\LG PROJECTS\Shoprite\LG13-0351 Warwick NY\DESIGN\SWPPP\TEMP\Warwick Precip.pcp

		F	Rainfall	Precipita	ation Tab	ole (in)		
Storm Distribution	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
SCS 24-hour	2.87	3.55	0.00	4.66	5.58	6.86	7.83	8.81
SCS 6-Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-1st	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-2nd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-3rd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-4th	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-Indy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Custom	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

PROJECT DATA

APPLICANT
WAKEFERN FOOD CEAR,
170 NORTH SEASISTINGET
FLORIDA, NY 100721
F-64451 851-2721

DWIZER

UASTRUT BOOKE PROPERTIES, ST

221 RANHOAD AVERUE

GREENWICH, CT 08000

EFERENCE

SAZLÁZ SUKVETRKI GROUP 171 CHURCH LAUS Korth Bruhkrasck, au 0002 1/252) 422-4701

ARCHITECTURAL FLOOR PLACE & ÉLEVATROS
RESTABAUM OESSIS EXILIP
2001 BARCUS AVENUE, LOCAY EAST NOSS
LAGE BUCCESA, MY 11042
P (619) 9 NOS11

MEPORT OF GEOTECHNICAL DAYESTIGATE SOR MEDIANOS BRULING CORP, 3770 MERRICK ROAD SEATORO, NY 11783

GOVERNING AGENCIE

MUNICIPALITY
TOWN OF SARMEL
ENGINEERING DEPARTEURT
TO NEALTH MYSTULE
MUNICIPAL SY 10541

MEN YORK STATE GEPARTMENT OF THANSPORTATION RESION B 4 BURNETT BOLLEWARD PRINCESSIE, NY 12803 PERSONAL PRINCESSIE

UTILITIES

ICETETS: HAMMET BEWER DECTMOT 22 HAMMET OF CAMMET) IN MEALTHN AVENUE ULHOPAC, NY 10581 HAMMET BZB-2017

WATER: GARMEL WATER DISTRI [HANLET OF CARNEL) 80 M:ALPEW AYERIE MCHEIPAC, NY 10541

GAR; Central Hudson gas and electric (southeast ga 26 Central Hudson way Fishkal, NY 12524

ELECTINIC: NYSEG DAENSTER ELECTRIC TERRAVEST CORPORATE PARK 35 MILAN HOAD DAENSTEN, NY 11789 P 18001 252 8500 EXT. 2

TELEPHONE: VENEZON YALHULLA HUDGEN YAL BOG SUMMET LA REDNOVE YALHALLA, NT DOGS PURSES 228 NOVA Site Plan Package for Proposed Expansion of: ShopRite Carmel (Store #235)





YICINITY MAP NTS

184 NYS Route 52
Carmel, Putnam County
New York, 10512
Tax Map ID: Sheet 44.9, Block 1, Lot 9

#### SHEET INDEX

	<del></del>
0.03	Cover Sheet
CO.1	Notes Sheet
C1.0	Overall Site Plan
C1.1	Partial Site Plan
C1.2	Parking Plan
C2.0	Removals Plan
C3.0	Grading Plan
C4.0	Stormwater Pollution
	Prevention Plan (Phase I)
C4.1	Stormwater Pollution
	Prevention Plan (Phase II)
C4.2	Stermwater Pellution
	Prevention Plan Details
C4.3	Contech Details
C5.0	Utility and Drainage Plan
C6.0	Lighting Plan
C7.0	Landscape Plan
C8.0	Detail Sheet I
C8.1	Detail Sheet II
TR1.0	Truck Run Plan
1 OF 1	Boundary & Topographic Su

I OF 1 Boundary & Topographic Survey (by Others)



SHOPRITE (184 MPS Page 2)

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GROUP

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PERMIT

Date 64

GENERAL NOTES

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#### SITE PLAN NOTES

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12 Autor to tricking plays by others for all work as the New York State resisted our 14. Coveractor shall repair eventing abusinessed carbog on entered by MYSDOT

15. A parent is empored from the Building Department for any blommy operations

#### **REMOVALS NOTES**

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The Conveyors shall below to the Gordechard Report III evolution and at retain Contraction I requires the proper and again for last Mining reprint your is self-or a converse provided and property are

The maximum of self-inequal a temperatory work forces around the subject, you've as accordance work Egyta Building Cuits and beni custos.

7. The constraints must not pholycol Don Call remains prime to any dissertances, no respect. However, the constraints is advised that any machines from the Don Call number and internation depends on these plans may be remembed another investigations.

Underground starting tooks (LET's), at asymmetrical, shall be completely suspend, durated and commend from the nebuse posted in accordance with federal, state, country self-focal experiments prior to askes conveyal explicition.

#### **GRADING AND DRAINAGE NOTES**

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The contractor about memory as the influent extent with the intent observants of ODIAI described used my solar aspects because predictions for accordance and transition percentage. The contractor about the suspect systems, misses, benefits, and other names of persistence are opportunisted for the preventing conditions. The relation has it to globally to accome and agrees from all

Resiliating fresh populy shall be \$10 PIC 1000 26, miles site

Courses referenced piping shall be 16°C (CC R-12 more well CCF, when offereign parts).

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#### UTILITY NOTES

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B. Zeach Separate shall be at large 10 feet true the deirs of commun.

C. When least considers proved pleasures of the areter last above the neuro fee, the following existenced conditions apply:

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#### SOO LAWN SPECIFICATIONS

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#### IRRIGATION NOTE

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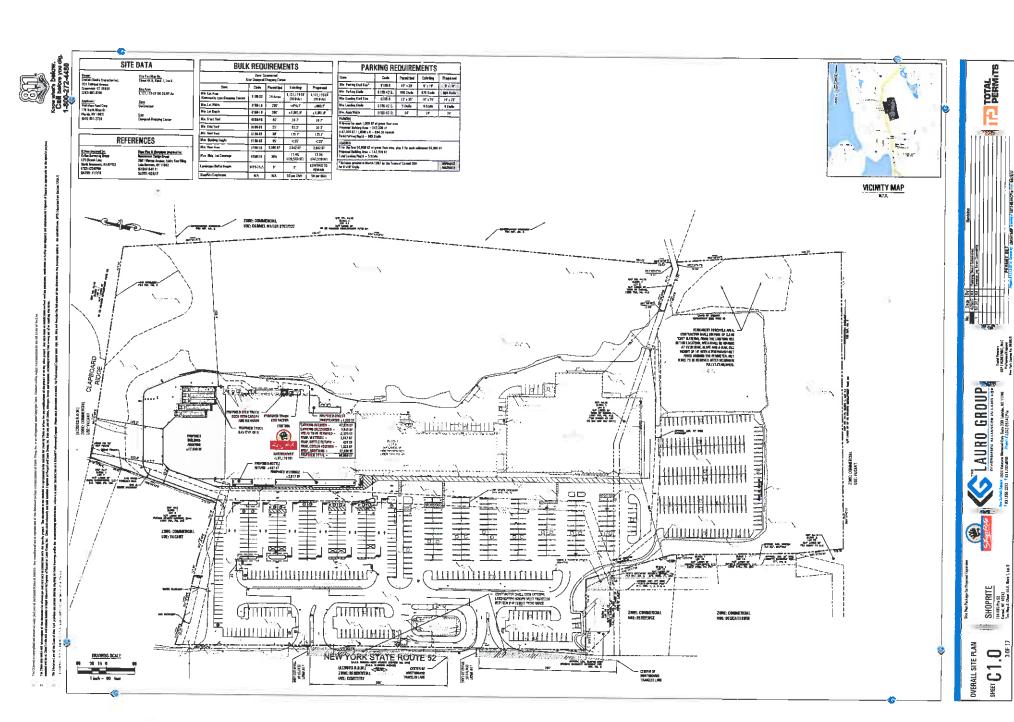
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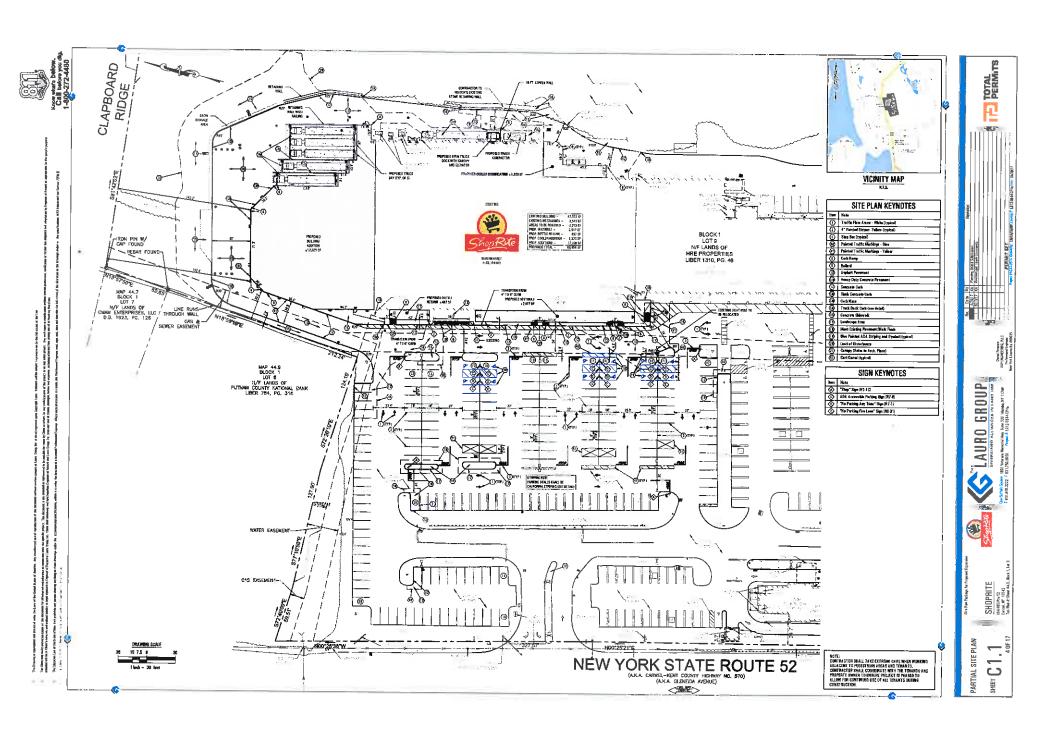
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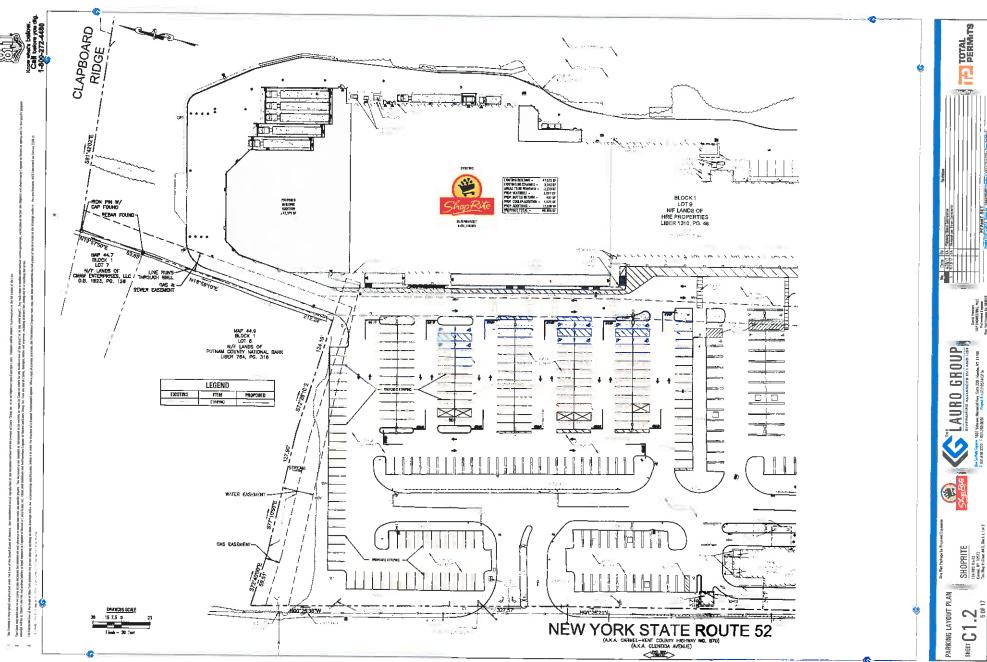




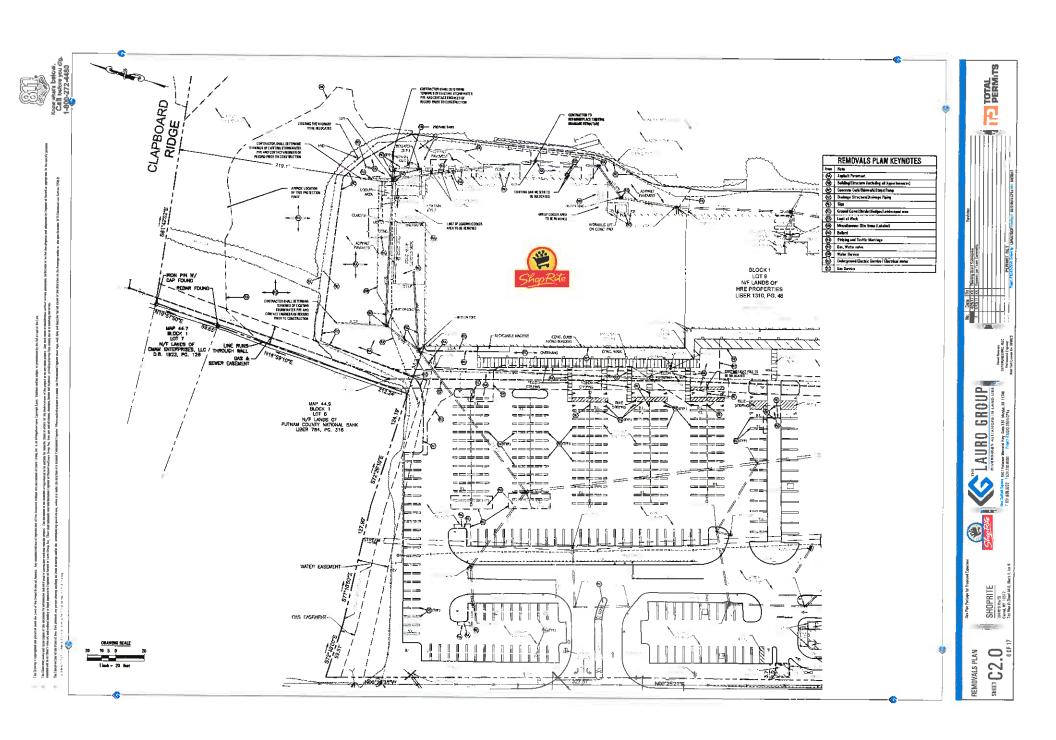
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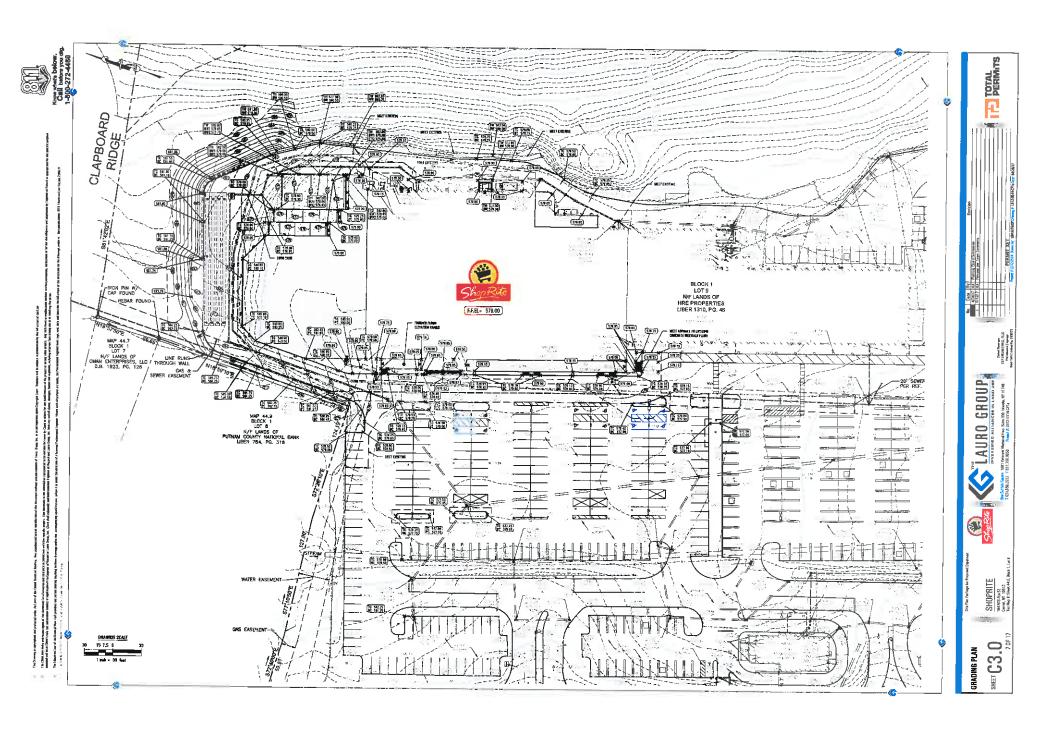


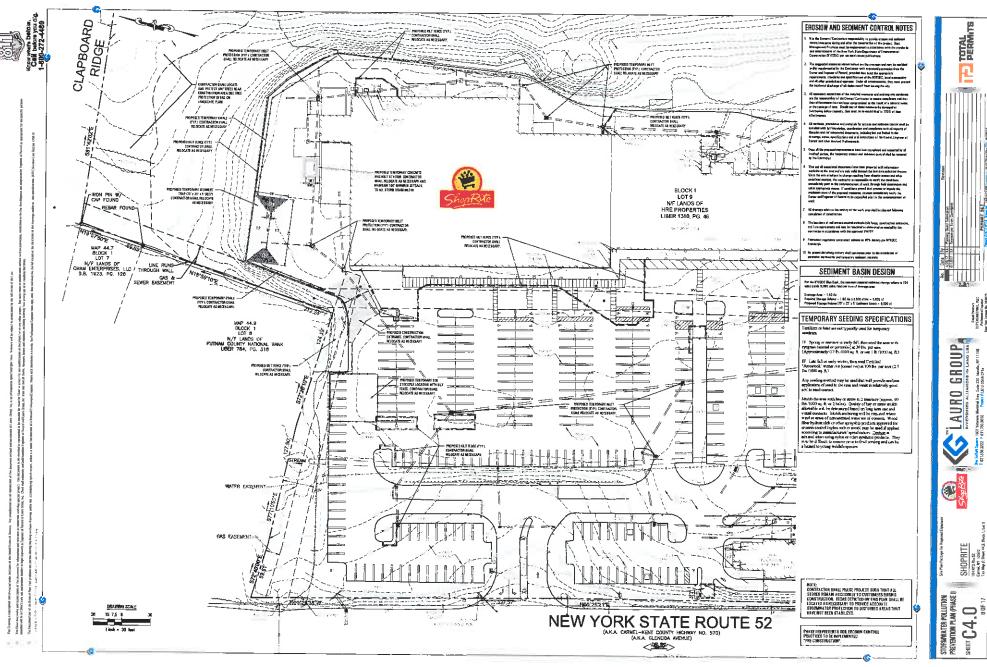


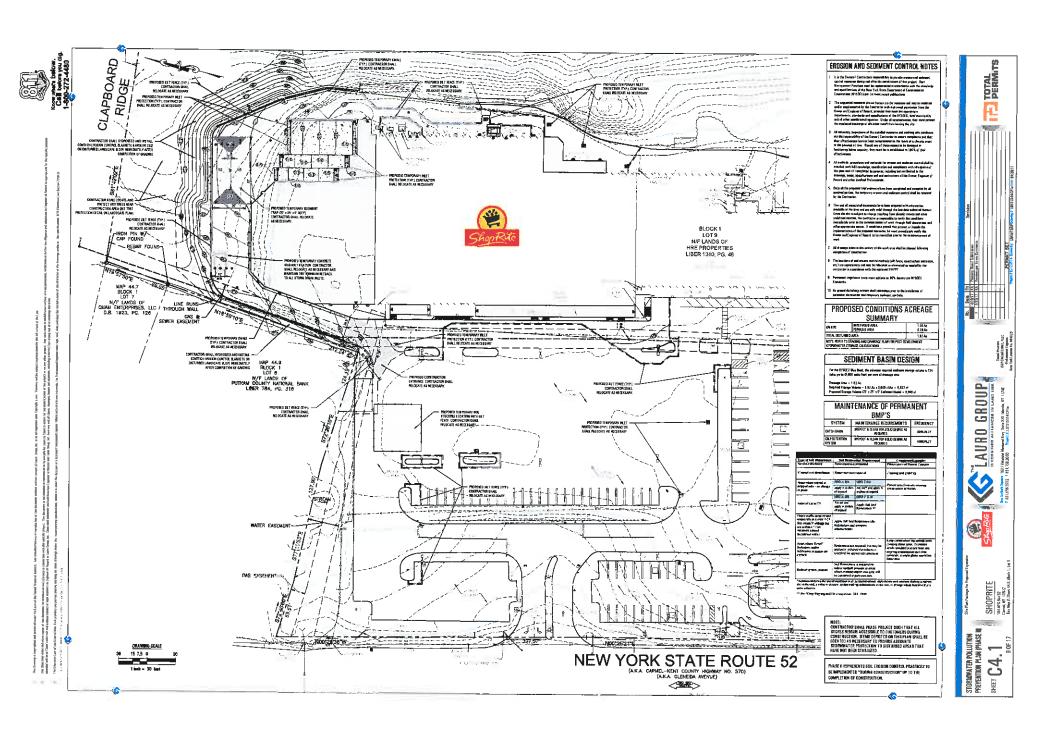


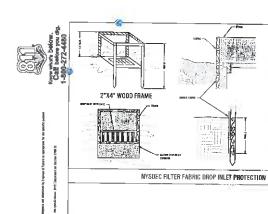
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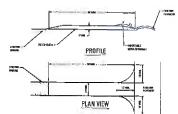








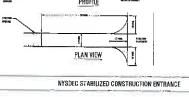
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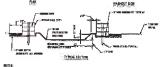


SECTION VIEW

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PERSPECTIVE VIEW

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CONSTRUCTION / BMP IMPLEMENTATION AND MAINTENANCE SEQUENCE

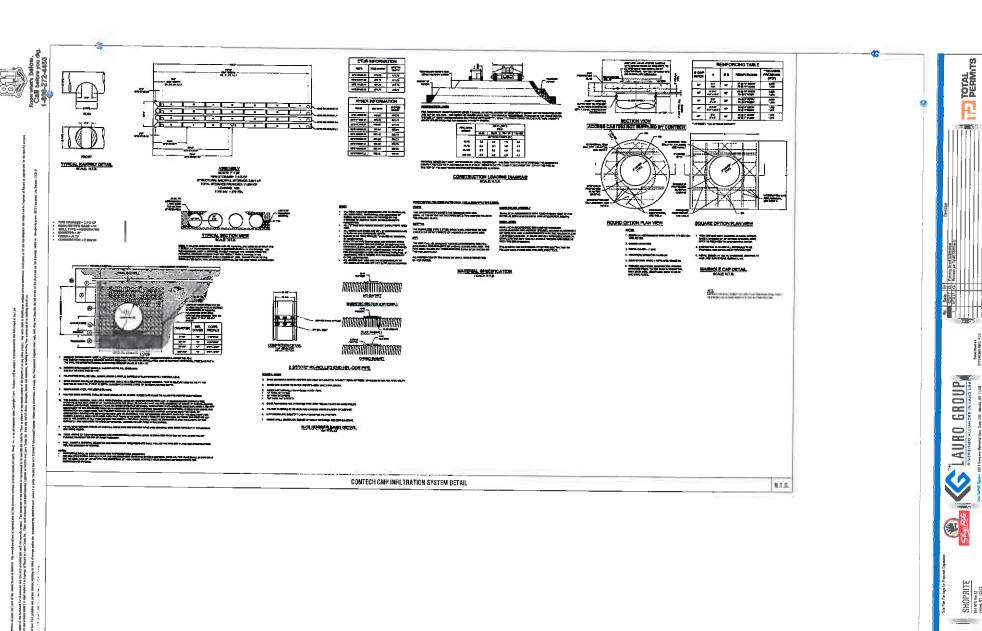
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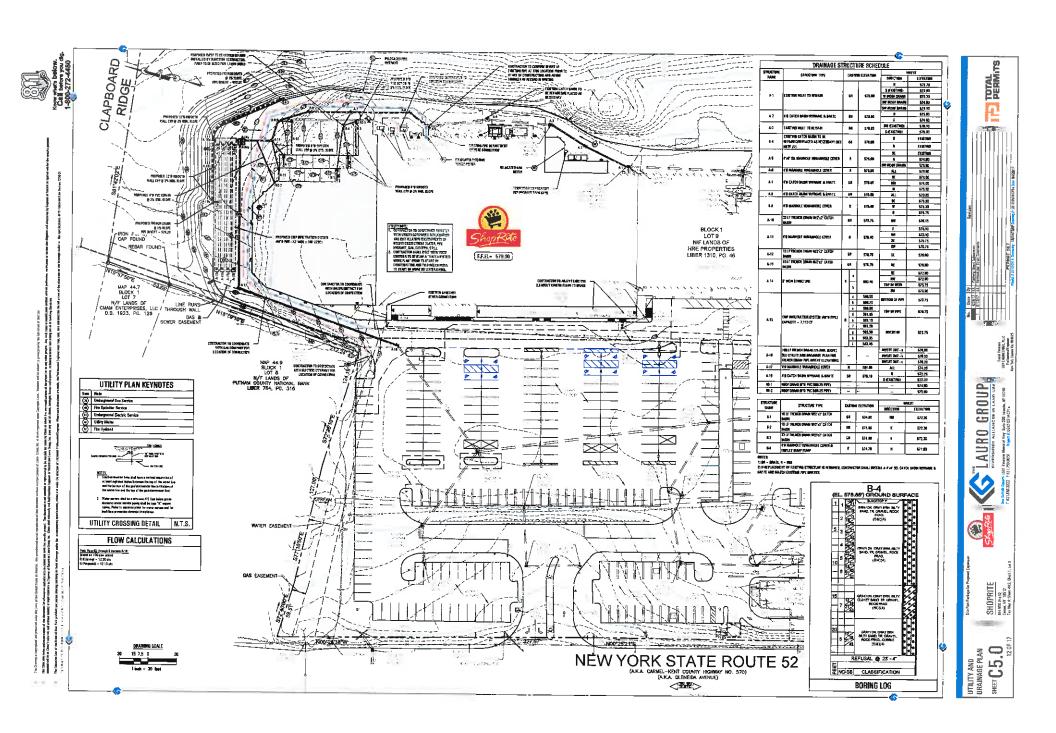
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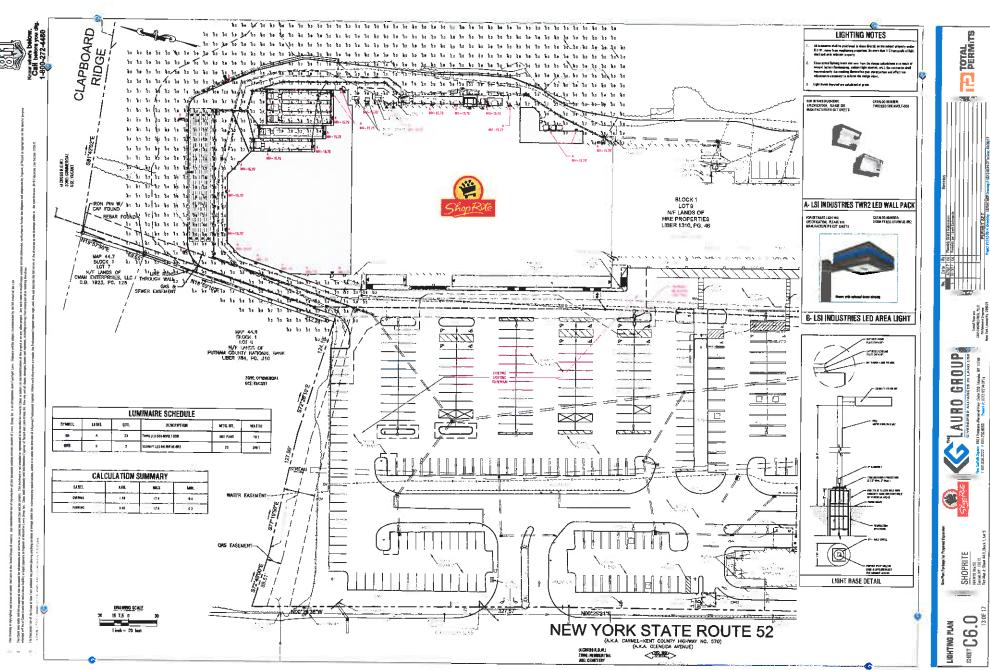
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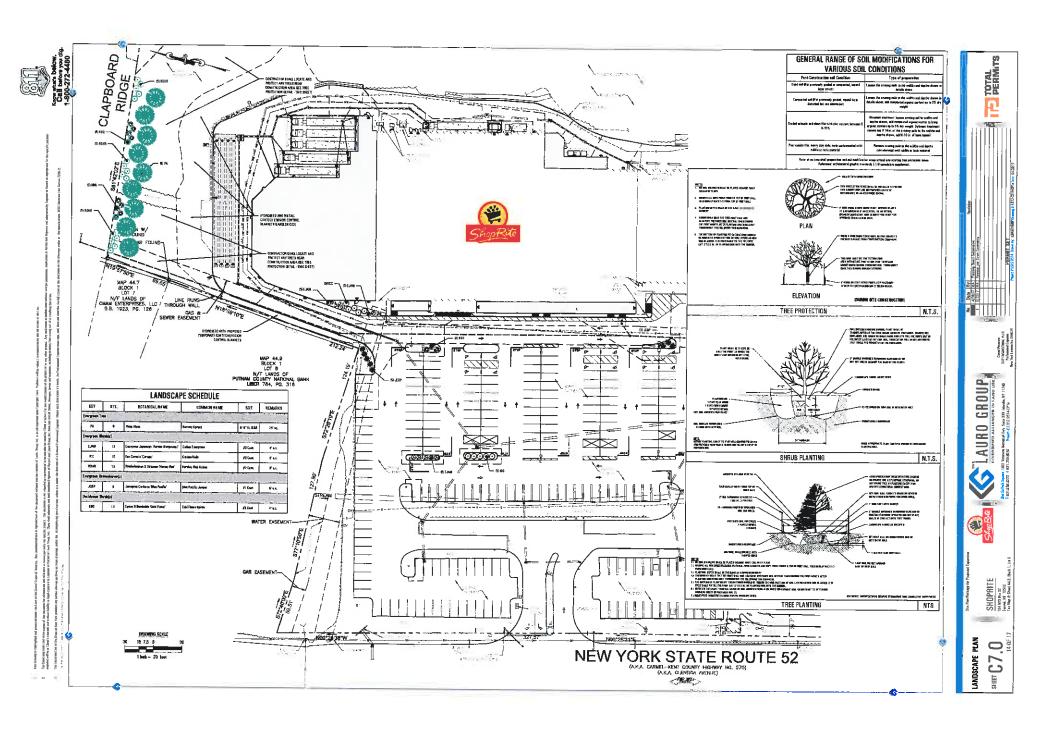


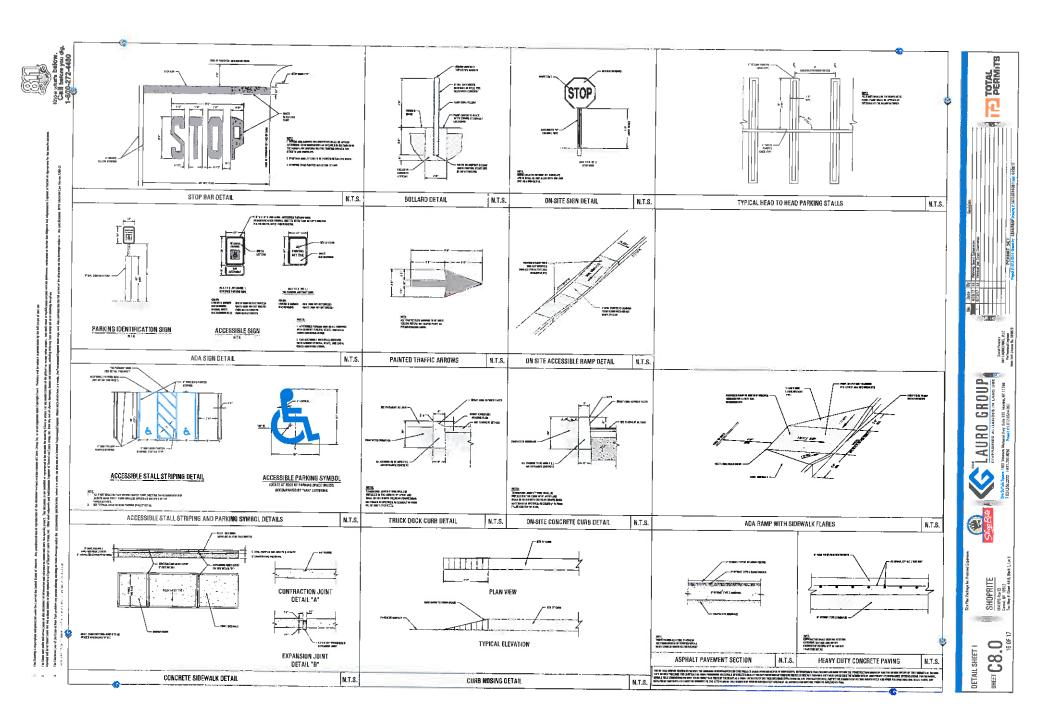
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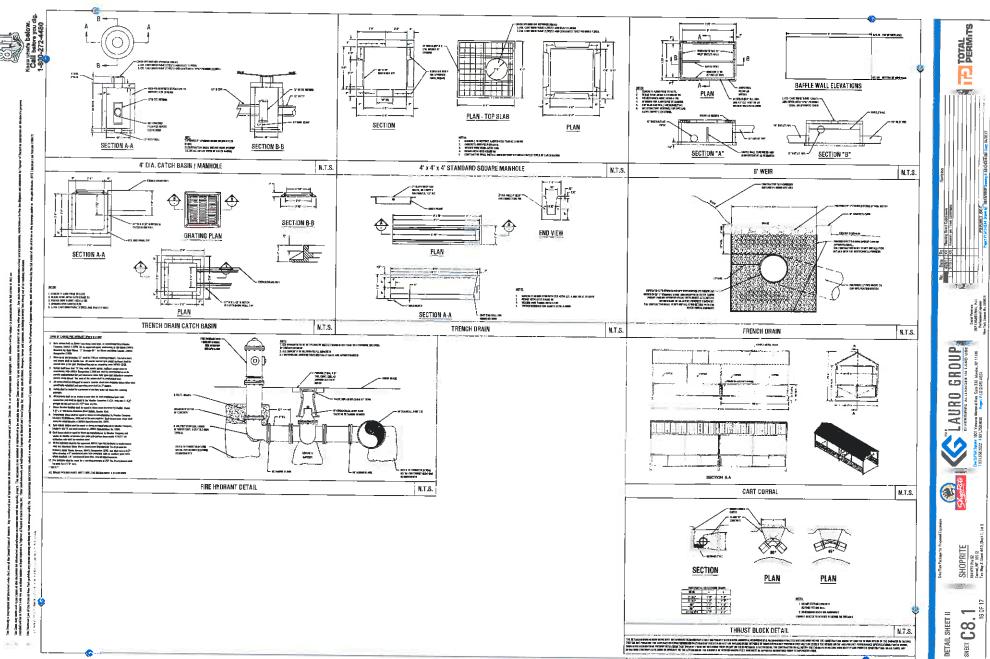
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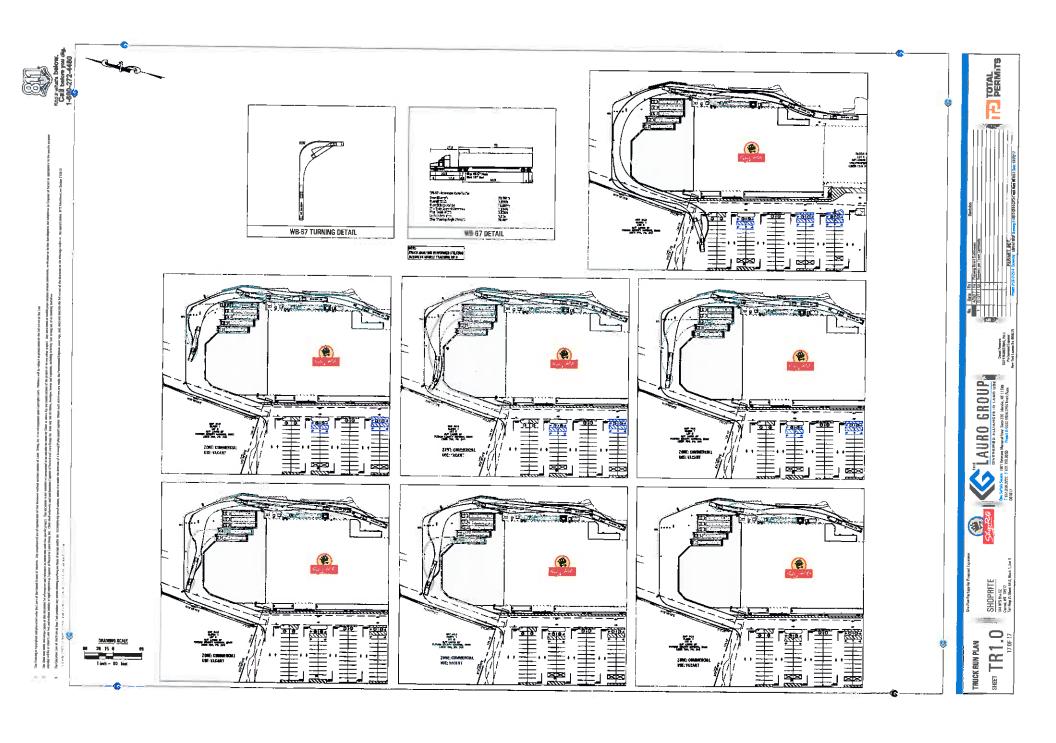
















Founding Principal
Roy I. Rosenbaum, A.I.A.

Senior Partners Fred C. Habenicht, A.I.A. Rand K. Rosenbaum, A.I.A. Jay E. Tuller, A.I.A.

Partners

Dennis J. Flynn, A.I.A.

Kevin M. O'Sullivan, A.I.A.

Director of Operations

Jay D. Rosenbaum, Esq.

Senior Associates Susan B. Sassoon, A.I.A. Michael J. Ziatyk, A.I.A. To: Planning Board
Carmel Town Hall
60 McAlpin Avenue
Mahopac, New York 10541

Re: ShopRite Supermarket #800

184 Glendia Avenue @ Route 6 Carmel, New York 10512 RDG Project No. 16078

To Whom It May Concern:

We have prepared the attached updated submission in response to the comments received by *Warshauer Mellusi Warshauer Architects* dated June 14<sup>th</sup>, 2017. Please note the following:

- 1. Photographs of the existing ShopRite supermarket as well as the existing shopping center (retail strip) have been provided.
- 2. The exterior elevation has been rendered in color and the finish materials noted to more clearly convey the design intent.
- The front elevation has been updated to provide a less massive façade by including more of a variety of forms and materials.
- 4. Photographs of the interior of a recently completed ShopRite supermarket at Vails Gate, NY, have been provided so that the Planning Board can visualize what the interior of the proposed ShopRite, will look like. This interior design represents the new cutting edge look for the ShopRite brand.
- 5. The new design will be more attractive than the existing ShopRite. We are proposing to remove the existing dated glass curtain wall at the entrance to the store and the existing EIFS fascia. We will be hiding most of the existing stone wall behind the new bottle return addition. The new design will feature an entry tower cladded with Hardi-Plank, and topped with a hipped shingled roof. There will also be a new shingled canopy supported by the existing split face block columns. This canopy will be broken up by a new Hardi-Plank cladded fascia with the ShopRite script logo. The new store will be longer than the existing store due to the proposed addition at the left hand side of the property. The addition will be mostly hidden from the parking lot view due to the shape of the

2001 Marcus Avenue Lobby East Wing Lake Success, New York 11042-1011

Tel: 516.616.6111 Fax: 516.616.6222

www.r-d-g.com

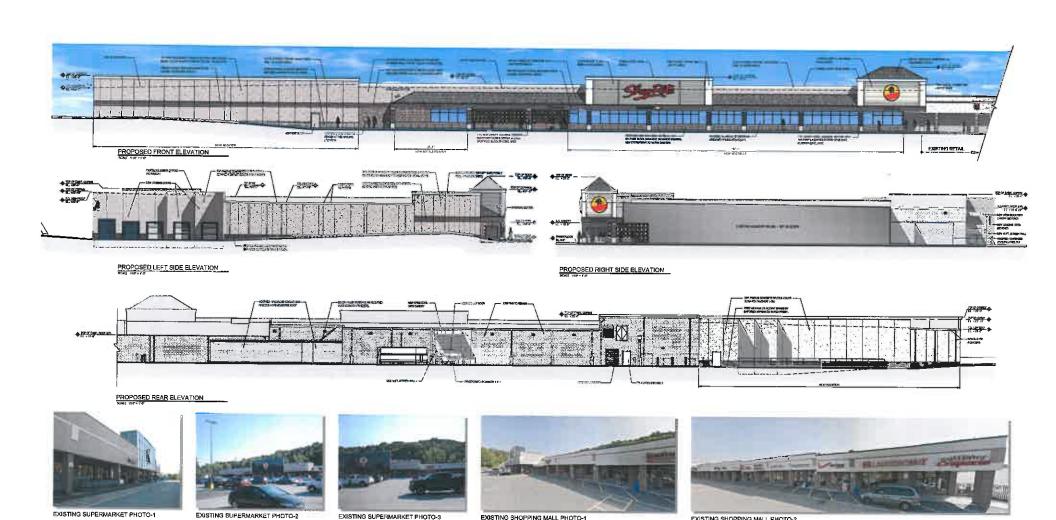
property and the grading in the area of the addition. The addition is proposed to be constructed of precast concrete with a decorative exposed aggregate, accent banding, and an EIFS cornice to provide visual interest.

Should you have any questions, please do not hesitate to contact our office.

Very truly yours,

Susan Sassoon, RA Senior Associate

SS/cml





EXISTING SUPERMARKET PHOTO-1

## SHOPRITE SUPERMARKET 180 GLENDIA AVENUE & ROUTE 6 - CARMEL, NEW YORK

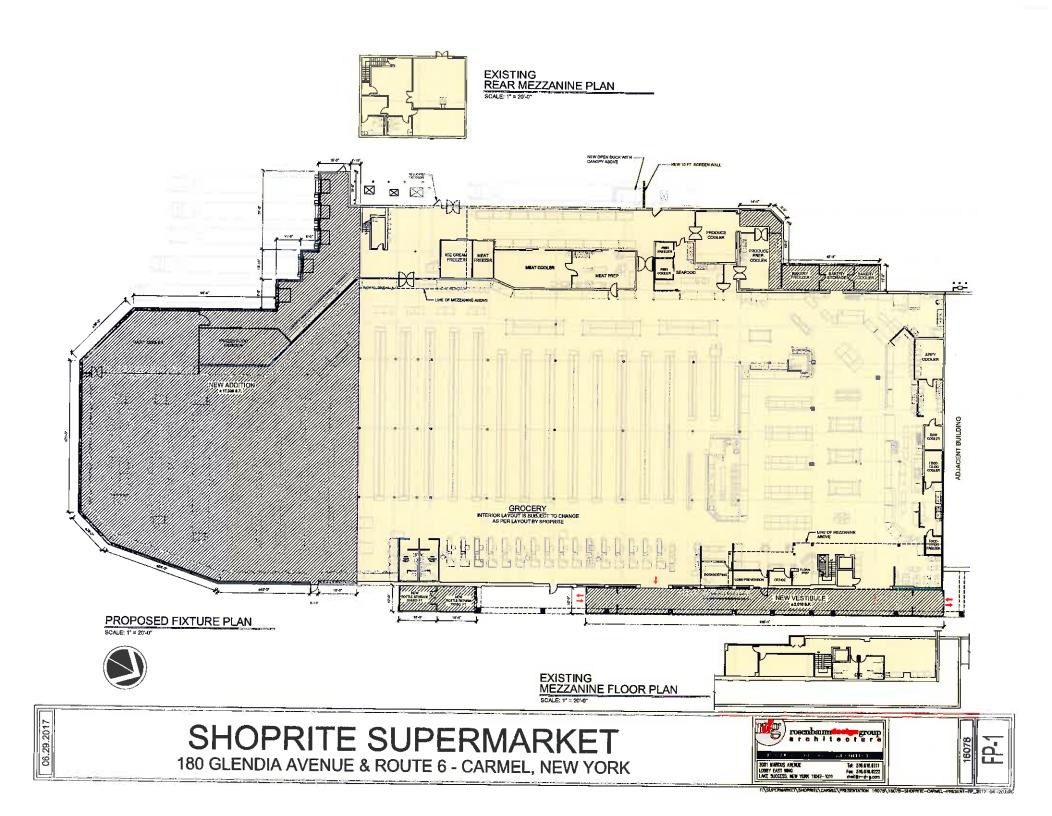
EXISTING SHOPPING MALL PHOTO-1

EXISTING SUPERMARKET PHOTO-3



EXISTING SHOPPING MALL PHOTO-2































SHOPRITE SUPERMARKET
180 GLENDIA AVENUE & ROUTE 6 - CARMEL, NEW YORK



## PLANNING BOARD Town of Carmel - Town Hall Mahopac, NY 10541 (845) 628-1500

## REGRADING APPLICATION

SUBMIT 11 APPLICATIONS, 11 SHORT EAF FORMS, 2 DISCLOSURE ADDENDUM STATEMENTS,

5 SITE PLANS & APPROPRIATE FEE.	- SIBOLOSORE ADDENDUM STATEMENTS,
Date Submitted: 6 (9 /17	Tax Map # 55. 5-1-4
Commercial Residential Other	
Name of Applicant: John Sansevera	Applicant's Signature: Nelsel
repriedir s Address: 11 Oleneida Ridge F1	Telephone Number:
Name of Present Owner if Different from Applicant:	SAA
Address:	Telephone Number
Person who Prepared Map: HERNANE De Almei	de P.E.
Address: 26 Glenvue DRIVE, GARRIL A	Telephone Number: 914-469-9741
Size of Lot: 0, 114 KC Description of Proposed	Work & Purpose: Filling / Grading
- of back yard.	J, J
Refer to Attached Town of Carmel Code for Further Regul	ations and Requirements.
Amount of Fee Paid: (Up to 5 acres \$300.00)	\$ 300.00 - Pd - CASK
Over 5 Acres \$300.00 Plus \$40.00 an Acre	\$

## Short Environmental Assessment Form Part 1 - Project Information

## Instructions for Completing

Part 1 - Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 Project - 10			
Part 1 - Project and Sponsor Information		<del></del>	
Name of Action or Project:			
Re-Grading back ward			
Project Location (describe, and attach a location map):		<del></del>	
Rear of House  Brief Description of Proposed Action:			
Brief Description of Proposed Action:			
Import fill to fill back Swing set on.	y cr d	to place	
Name of Applicant or Sponsor:	Telep	phone: 914-760	-0.5/3
John Sansevera Address:	E-Ma	il:	
City/PO: 47 Gleneida Ridge Road		State:	Zip Code:
(arme)		NY	10512
1. Does the proposed action only involve the legislative adoption of a plan, administrative rule, or regulation?		v, ordinance,	NO YES
If Yes, attach a narrative description of the intent of the proposed action and may be affected in the municipality and proceed to Part 2. If no, continue to	) auestio	on 2.	hat 💹 🗌
<ol><li>Does the proposed action require a permit, approval or funding from any If Yes, list agency(s) name and permit or approval:</li></ol>	other go	overnmental Agency?	NO YES
<ul> <li>3.a. Total acreage of the site of the proposed action?</li> <li>b. Total acreage to be physically disturbed?</li> <li>c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?</li> </ul>	,10	acres acres	
		_acres	
H. Check all land uses that occur on, adjoining and near the proposed action  ☐ Urban ☐ Rural (non-agriculture) ☐ Industrial ☐ Comm ☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (☐ Parkland	ercial	Residential (suburb	an)

5. Is the proposed action,	NO	Type	1
a. A permitted use under the zoning regulations?	NO	YES	N/A
b. Consistent with the adopted comprehensive plan?			╁┾╡
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	<u> </u>	NO	YES
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Art If Yes, identify:	ea?	NO	YES
8. a. Will the proposed action result in a substantial increase in traffic above present levels?		M	
at the proposed action result in a substantial increase in traffic above present levels?		NO	YES
b. Are public transportation service(s) available at or near the site of the proposed action?		N N	
c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed acti	on?	P	
9. Does the proposed action meet or exceed the state energy code requirements?  If the proposed action will exceed requirements, describe design features and technologies:		NO DE	YES
10. Will the proposed action connect to an existing public/private water supply?		NO	YES
If No, describe method for providing potable water:		M	
11. Will the proposed action connect to existing wastewater utilities?		NO	YES
If No, describe method for providing wastewater treatment:	_	X	
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places?		NO	YES
b. Is the proposed action located in an archeological sensitive area?	-	M M	
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?		<del></del>	YES
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:	_	7	
	_		ļ
14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all ☐ Shoreline ☐ Forest ☐ Agricultural/grasslands ☐ Early mid-succession. ☐ Wetland ☐ Suburban	that ap	l_ ply:	
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	1	O	YES
16. Is the project site located in the 100 year flood plain?	N	(O)	YES
17. Will the proposed action create storm water discharge, either from point or non-point sources?		×4	YES
If Yes,  a. Will storm water discharges flow to adjacent properties?  NO TYES	Į	Z [	
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)?  [ NO			_
	_		

18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)?	NO	YES
If Yes, explain purpose and size:		
	لكنا	
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility?	NO	YES
If Yes, describe:		
20 Handle site of the man I at the site of		i 
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste?	NO	YES
If Yes, describe:		
LA FEIDM TRACE THE DECORMANDA		
I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE I KNOWLEDGE	BEST O	FMY
Applicant/sponsor name: John Sansovera Date: 1/20/17		
Applicant/sponsor name: John Sanserera Date: 1/20/17 Signature: John Danserer		

## HERNANE DE ALMEIDA, P.E.

26 GLENVUE DRIVE, CARMEL, NY 10512

HERNANE@ENGINEER.COM

(914) 469-9741

## **Engineer's Report**

Property owners: John & Jessica Sansevera

Subject property: 47 Gleneida Ridge Road

Carmel, 10512

**Tax Map#:** 55.5-1-4

Date: June 13, 2017



Hernane De Almeida, PE NYS License #90887

#### Site Description

The site is located in a single family zoned area and contains a one story single family residence and a detached garage. The property slope downward on toward three sides, the front, rear and left side property lines. The grade in the rear yard has the most significant of the three and has a grade of between 8% and 10%. Some of the rear yard is used for typical residential recreational use but is limited due to the slope of the yard that prevents the enjoyment of the property.

#### **Project Description**

In the interest of improving the characteristics of the property, the Sansavera's would like to lessen the grade in the rear yard to provide a larger area for their family to enjoy. The swing set currently in the property is on a slight incline and it is the anticipation of the homeowners to reinstall the swing set on level ground. The homeowners imported soil without knowledge of wrongdoing and were issued a stop work order prior to the completion of work. The work prosed will provide an area of approximately 60 feet by 80 feet of nearly level yard.

#### Soil Information

Approximately 75 cubic yards of soil to be used as fill material was imported from an excavation site in Rye, New York, transported to the site, and placed in the rear yard. Once a stop work order was issued by the town, the owner retained the services of a New York State licensed professional engineer. Under the direction of an engineer, erosion and sediment control was installed and soil testing was arranged.

#### **Soil Testing**

Five discrete soil samples were collected for an average of one sample per 15 cubic yards and from those samples, a composite was created. The number of samples was performed in accordance recommendations set forth in the New York State Department of Environmental Conservation, Division of Environmental Remediation Technical Guidance for Site Investigation and Remediation (DER-10) table 5.4 (E) 10. While three discrete samples are recommended by the NYSDEC, DER for this projects soil quantity, five discrete samples were provided for testing.

Sampling was Soil testing was performed by an EnviroTest Laboratories Inc. under the parameters and requirements of title 6 New York Code, Rules and Regulations Part 375(6 NYCRR Part 375). Each of the discrete samples were tested for Volatile Organic Compounds (VOCs) while the composite sample was tested for Metals, PCBs/Pesticides and Semi Volatile Organic Compounds (SVOCs).

#### Results

The results from the laboratory are provided in Appendix A along with the chain of custody form. The test results provided by the laboratory have been compared to the parameters set forth by the NYSDEC for residential use as shown on Table 375-6.8(b). A comparison of the lab results to the New York State standards is illustrated in *Tables 1a-d* of this report. According to the results, the soil imported to the site has tested for contaminant levels below the strict maximum allowed limits set forth by the NYSDEC and is safe for the residential use as discussed earlier in this report and the use characteristic of the neighborhood.

Table 1a. Soil testing results-Metals

Metals					
Contaminant	Residential Use Limit	Lab Result	Sample number		
Arsenic	16	4.1	Composite		
Barium	350	99	Composite		
Beryllium	14.0	0.62	Composite		
Cadmium	2.5	<0.47	Composite		
Chromium, hexavalent e	22	ND	Composite		
Chromium, trivalent e	36	29	Composite		
Copper	270	30	Composite		
Total Cyanide e, f	27	<1.2	Composite		
Lead	400	130	Composite		
Manganese	2000	380	Composite		
Total Mercury	0.81	0.21	Composite		
Nickel	140	17	Composite		
Selenium	36	2.4	Composite		
Silver	36	1.9	Composite		
Zinc	2200	130	Composite		

All soil cleanup objectives (SCOs) are in parts per million (ppm).

Table 1b. Soil testing results —PCBs/Pesticides

	PCBs/Pesticides	3	·		
Contaminant	Contaminant Residential Use Lab Resu		LOUISMINISH / Lab		Sample number
2,4,5-TP Acid (Silvex) f	58.0	< 0.095	Composite		
4,4'-DDE	1.8	< 0.00029	Composite		
4,4'-DDT	1.7	< 0.00031	Composite		
4,4'-DDD	2.6	< 0.00036	Composite		
Aldrin	0.019	< 0.00022	Composite		
alpha-BHC	0.097	< 0.00075	Composite		
beta-BHC	0.072	< 0.00025	Composite		
Chlordane (alpha)	0.910	< 0.00030	Composite		
delta-BHC g	100.00	< 0.00034	Composite		
Dibenzofuran f	14	< 0.12	Composite		
Dieldrin	0.039	< 0.00049	Composite		
Endosulfan I d, f	4.8	< 0.00018	Composite		
Endosulfan II d, f	4.8	< 0.00041	Composite		
Endosulfan sulfate d, f	4.8	< 0.00047	Composite		
Endrin	2.20	< 0.00064	Composite		
Heptachlor	0.042	< 0.00018	Composite		
Lindane	0.28	< 0.00081	Composite		
Polychlorinated biphenyls	1.0	<0.025	Composite		

All soil cleanup objectives (SCOs) are in parts per million (ppm).

Table 1c. Soil testing results -Semivolatile Organic Compounds

Semivolatile organic compounds				
Contaminant	Residential Use Limit	Lab Result	Sample number	
Acenaphthene	100	< 0.099	Composite	
Acenapthylene f	100	< 0.087	Composite	
Anthracene f	100	< 0.095	Composite	
Benz(a)anthracene f	1	0.25	Composite	
Benzo(a)pyrene	1	0.25	Composite	
Benzo(b)fluoranthene f	1	0.38	Composite	
Benzo(g,h,i)perylene f	100	0.19	Composite	
Benzo(k)fluoranthene f	1	0.17	Composite	
Chrysene f	1	0.31	Composite	
Dibenz(a,h)anthracene f	0.33	< 0.074	Composite	
Fluoranthene f	100	0.52	Composite	
Fluorene	100	<0.088	Composite	
Indeno(1,2,3-cd) pyrene	0.5	0.21	Composite	
m-Cresol f	100	< 0.11	Composite	
Naphthalene f	100	< 0.086	Composite	
o-Cresol f	100	<0.12	Composite	
p-Cresol f	34	< 0.11	Composite	
Pentachlorophenol	2.4	< 0.10	Composite	
Phenanthrene f	100	0.18	Composite	
Phenol	100	< 0.093	Composite	
Pyrene f	100	0.49	Composite	

All soil cleanup objectives (SCOs) are in parts per million (ppm).

Table 1d. Soil testing results ~Volatile Organic Compounds

Volatile organic compounds				
Contaminant	Residential Use Limit	Lab Result	Sample number	
1,1,1-Trichloroethane f	100	< 0.000029	3	
1,1-Dichloroethane f	19	< 0.000016	3	
1,1-Dichloroethene f	100	< 0.000038	3	
1,2-Dichlorobenzene f	100	< 0.000037	3	
1,2-Dichloroethane	2.3	< 0.000023	3	
cis -1,2-Dichloroethene f	59.00	< 0.000023	3	
trans-1,2-Dichloroethene	100	<0.000041	3	
1,3-Dichlorobenzene f	17.0	< 0.000053	3	
1,4-Dichlorobenzene	9.8	< 0.000061	3	
1,4-Dioxane	9.8	< 0.0015	3	
Acetone	100	< 0.00024	3	
Benzene	2.9	< 0.000023	3	
n-Butylbenzene f	100	< 0.000026	3	
Carbon tetrachloride f	1.40	< 0.000037	3	
Chlorobenzene	100	< 0.000036	3	
Chloroform	10	<0.000021	3	
Ethylbenzene f	30	0.00027	1	
Hexachlorobenzene f	0.33	< 0.084	Composite	
Methyl ethyl ketone	100	< 0.00035	3	
Methyl tert-butyl ether f	62	< 0.000017	3	
Methylene chloride	51	0.019	4&5	
n - Propylbenzene f	100	< 0.000071	3	
sec-Butylbenzene f	100	<0.000081	3	
tert-Butylbenzene f	100	<0.000052	3	
Tetrachloroethene	5.5	< 0.00012	3	
Toluene	100	0.00064	4	
Trichloroethene	10	< 0.000046	3	
1,2,4-Trimethylbenzene f	47	<0.000061	3	
1,3,5-Trimethylbenzene f	47	< 0.000061	3	
Vinyl chloride f	0.21	< 0.000036	3	
Xylene (mixed)	100	0.00060	1	

All soil cleanup objectives (SCOs) are in parts per million (ppm).

#### Stormwater Management

Currently the storm water flow on the site from both impervious and impervious surfaces flow over land towards the front, rear and left side property lines. While the condition of the front yard and right side yard remain unchanged for the proposed project, there are changes to the storm water flow in the rear left corner of the property which change the storm water characteristics at that location. Since the topography is changing to a lesser grade then the Overland stormwater flow rate will be reduced as a result of this project lessening the impact of stormwater on runoff to abutting neighbors during a rain event. This can be attributed to two characteristics of the project: the resulting newly seeded lawn absorbing a greater amount of water than the existing sparse lawn growth and the longer time of concentration provided along the flow path allowing water to absorb into the ground or evaporate.

# **Appendix A**

# **Appendix A**



#### **ANALYTICAL REPORT**

Job Number: 420-117020-1

SDG Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Job Description: Walkin Client

For:

John Sansevera 47 Gleneida Ridge Road Carmel, NY 10512

Attention: John Sansevera

Laura Marciano

Laura L Marciano
Customer Service Manager
Imarciano@envirotestlaboratories.com
03/01/2017

cc: Ms. Renee Cusack

NYSDOH ELAP does not certify for all parameters. EnviroTest Laboratories does hold certification for all analytes where certification is offered by ELAP unless otherwise specified in the Certification Information section of this report Pursuant to NELAP, this report may not be reproduced, except in full, without written approval of the laboratory. EnviroTest Laboratories Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our laboratory. All questions regarding this report should be directed to the EnviroTest Customer Service Representative.

EnviroTest Laboratories, Inc. Certifications and Approvals: NYSDOH 10142, NJDEP NY015, CTDOPH PH-0554



#### **METHOD SUMMARY**

Client: John Sansevera

Job Number: 420-117020-1

SDG Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry Microwave Assisted Acid Digestion of Sediments,	EnvTest EnvTest	SW846 6010C	SW846 3051A
Hg in Solids & Semi-solids Mercury in Solid or Semi-Solid Waste (Manual Cold	EnvTest EnvTest	SW846 7471B	SW846 7471B
Organochlorine Pesticides by Gas Chromatography Microwave Extraction	EnvTest EnvTest	SW846 8081B	SW846 3546
Polychlorinated Biphenyls (PCBs) by Gas Chromatography Microwave Extraction	EnvTest EnvTest	SW846 8082A	SW846 3546
Chlorinated Herbicides by GC Chlorinated Herbicides by GC - Solids Prep	EnvTest EnvTest	SW846 8151A	SW846 8151A
Volatile Organic Compounds by GC/MS Closed System Purge & Trap Low Level	EnvTest EnvTest	SW846 8260C	EPA 5035-L
Semivolatile Compounds by GC/MS Microwave Extraction	EnvTest EnvTest	SW846 8270D	SW846 3546
Total and Amenable Cyanide (Automated Colorimetric, with Off-Line Distillation)	EnvTest	SW846 9012B	
Cyanide Distillation	EnvTest		SW846 9010C
General Sub Contract Method	Alpha	Subcontract	

#### Lab References:

Alpha = Alpha Analytical, Inc.

EnvTest = EnviroTest

#### **Method References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Job Number: 420-117020-1 Sdg Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Client Sample ID:

Lab Sample ID:

t E

420-117020-1

Date Sampled: 02/16/2017 1630

Date Received: 02/16/2017 1645

Client Matrix:

Solid

Percent Solids: 81

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260C		Date Anal	vzed: 02/16/	2017 1817	. ,
Prep Method: 5035-L		Date Prep		2017 1817	
1,2,4-Trimethylbenzene	<0.00053	mg/Kg Dry	0.000053	0.0010	1.0
1,2-Dichlorobenzene	<0.000032	mg/Kg Dry	0.000032	0.0010	1.0
1,2-Dichloroethane	<0.000020	mg/Kg Dry	0.000020	0.0010	1.0
1,3,5-Trimethylbenzene	< 0.000053	mg/Kg Dry	0.000053	0.0010	1.0
1,3-Dichlorobenzene	<0.00046	mg/Kg Dry	0.000046	0.0010	1.0
1,4-Dichlorobenzene	< 0.000053	mg/Kg Dry	0.000053	0.0010	1.0
1,4-Dioxane	<0.0013	mg/Kg Dry	0.0013	0.0015	1.0
Benzene	<0.000020	mg/Kg Dry	0.000020	0.0010	1.0
Chlorobenzene	<0.00031	mg/Kg Dry	0.000031	0.0010	1.0
Chloroform	<0.000018	mg/Kg Dry	0.000031	0.0010	1.0
Ethylbenzene	0.00027 J	mg/Kg Dry	0.000039	0.0010	1.0
n-Butylbenzene	<0.000023	mg/Kg Dry	0.000033	0.0010	
N-Propylbenzene	<0.000062	mg/Kg Dry	0.000062	0.0010	1.0
sec-Butylbenzene	<0.000070	mg/Kg Dry	0.000070	0.0010	1.0
tert-Butylbenzene	<0.000045	mg/Kg Dry	0.000070		1.0
Toluene	0.00064 J	mg/Kg Dry	0.000045	0.0010 0.0010	1.0
Xylenes, Total	0.00060 J	mg/Kg Dry	0.000020		1.0
1,1,1-Trichloroethane	<0.000025	mg/Kg Dry	0.00010	0.0020	1.0
1,1-Dichloroethane	<0.000014	mg/Kg Dry	0.000025	0.0010	1.0
1,1-Dichloroethene	<0.000033	mg/Kg Dry	0.000014	0.0010	1.0
Carbon tetrachloride	<0.00032		=	0.0010	1.0
cis-1,2-Dichloroethene	<0.000020	mg/Kg Dry mg/Kg Dry	0.000032 0.000020	0.0010	1.0
Methylene Chloride	0.0096	mg/Kg Dry	· · · · ·	0.0010	1.0
Tetrachloroethene	<0.00010	mg/Kg Dry	0.000030 0.00010	0.0010	1.0
trans-1,2-Dichloroethene	<0.00036			0.0010	1.0
Trichloroethene	<0.00040	mg/Kg Dry	0.000036	0.0010	1.0
Vinyl chloride	<0.000040	mg/Kg Dry	0.000040	0.0010	1.0
2-Butanone (MEK)	<0.00031	mg/Kg Dry	0.000031	0.0010	1.0
Methyl tert-butyl ether	<0.00015	mg/Kg Dry	0.00030	0.0010	1.0
Acetone	<0.00015	mg/Kg Dry	0.000015	0.0010	1.0
	~0.00021	mg/Kg Dry	0.00021	0.0050	1.0
Surrogate			Accen	tance Limits	
Toluene-d8 (Surr)	100	%	ооср	72 - 143	
4-Bromofluorobenzene	91	%		49 - 138	
1,2-Dichloroethane-d4 (Surr)	90	%		73 - 128	

Job Number: 420-117020-1

Sdg Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Client Sample ID:

2

Lab Sample ID:

420-117020-2

Date Sampled: 02/16/2017 1630

Date Received: 02/16/2017 1645

Client Matrix:

Solid Percent Solids: 85

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260C		Date Anal	vzed: 02/16/	2017 1852	
Prep Method: 5035-L		Date Prep	•	2017 1852	
1,2,4-Trimethylbenzene	<0.00050	mg/Kg Dry	0.000050	0.00094	1.0
1,2-Dichlorobenzene	<0.00030	mg/Kg Dry	0.000030	0.00094	1.0
1,2-Dichloroethane	<0.00019	mg/Kg Dry	0.000019	0.00094	
1,3,5-Trimethylbenzene	<0.00050	mg/Kg Dry	0.000019	0.00094	1.0 1.0
1,3-Dichlorobenzene	< 0.000043	mg/Kg Dry	0.000030	0.00094	1.0
1,4-Dichlorobenzene	<0.00050	mg/Kg Dry	0.000050	0.00094	1.0
1,4-Dioxane	<0.0012	mg/Kg Dry	0.0012	0.00094	1.0
Benzene	<0.00019	mg/Kg Dry	0.000019	0.0004	
Chlorobenzene	<0.000029	mg/Kg Dry	0.000019	0.00094	1.0
Chloroform	<0.00017	mg/Kg Dry	0.000029	0.00094	1.0
Ethylbenzene	0.00021 J	mg/Kg Dry	0.000017		1.0
n-Butylbenzene	<0.00022	mg/Kg Dry	0.000037	0.00094	1.0
N-Propylbenzene	<0.000058	mg/Kg Dry	0.000022	0.00094	1.0
sec-Butylbenzene	<0.00066	mg/Kg Dry	0.000056	0.00094	1.0
tert-Butylbenzene	<0.000042	mg/Kg Dry	0.00008	0.00094	1.0
Toluene	0.00041 J	mg/Kg Dry	0.000042	0.00094	1.0
Xylenes, Total	0.00029 J	mg/Kg Dry	0.000019	0.00094	1.0
1,1,1-Trichloroethane	<0.00024	mg/Kg Dry	0.000094	0.0019	1.0
1,1-Dichloroethane	<0.00013	mg/Kg Dry		0.00094	1.0
1,1-Dichloroethene	<0.000031	mg/Kg Dry	0.000013	0.00094	1.0
Carbon tetrachloride	<0.00030	mg/Kg Dry	0.000031	0.00094	1.0
cis-1,2-Dichloroethene	<0.000019	mg/Kg Dry	0.000030	0.00094	1.0
Methylene Chloride	0.010	mg/Kg Dry	0.000019	0.00094	1.0
Tetrachloroethene	<0.00094	mg/Kg Dry	0.000028	0.00094	1.0
trans-1,2-Dichloroethene	<0.000034	mg/Kg Dry	0.000094	0.00094	1.0
Trichloroethene	<0.00038	mg/Kg Dry	0.000034 0.000038	0.00094	1.0
Vinyl chloride	<0.000029	mg/Kg Dry		0.00094	1.0
2-Butanone (MEK)	<0.00028	mg/Kg Dry	0.000029	0.00094	1.0
Methyl tert-butyl ether	<0.00014	mg/Kg Dry	0.00028	0.00094	1.0
Acetone	<0.00020	mg/Kg Dry	0.000014 0.00020	0.00094 0.0047	1.0 1.0
Surrogate		aa +1,	_		1.0
Toluene-d8 (Surr)	103	.,	Accep	tance Limits	
4-Bromofluorobenzene	· = =	%		72 - 143	
1,2-Dichloroethane-d4 (Surr)	92 95	%		49 - 138	
-,= 2.5.noroenune-u4 (3011)	90	%		73 - 128	

Job Number: 420-117020-1 Sdg Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Client Sample ID:

Lab Sample ID:

(4)

420-117020-3

Date Sampled: 02/16/2017 1630

Date Received: 02/16/2017 1645

Client Matrix:

Solid

Percent Solids: 85

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260C		Date Ana	lyzed: 02/16	/2017 1928	
Prep Method: 5035-L		Date Prep		/2017 1928	
1,2,4-Trimethylbenzene	<0.000061	mg/Kg Dry	0.000061	0.0012	4.0
1,2-Dichlorobenzene	<0.000037	mg/Kg Dry	0.000037	0.0012	1.0
1,2-Dichloroethane	<0.000023	mg/Kg Dry	0.000037	0.0012	1.0
1,3,5-Trimethylbenzene	<0.00061	mg/Kg Dry	0.000023	0.0012	1.0
1,3-Dichlorobenzene	< 0.000053	mg/Kg Dry	0.000053		1.0
1,4-Dichlorobenzene	< 0.000061	mg/Kg Dry	0.000053	0.0012	1.0
1,4-Dioxane	<0.0015	mg/Kg Dry	0.000001	0.0012	1.0
Benzene	<0.000023	mg/Kg Dry	0.000023	0.0017	1.0
Chlorobenzene	<0.00036	mg/Kg Dry	0.000023	0.0012	1.0
Chloroform	<0.000021	mg/Kg Dry	0.000038	0.0012	1.0
Ethylbenzene	0.00012 J	mg/Kg Dry	0.000027	0.0012	1.0
n-Butylbenzene	<0.000026	mg/Kg Dry	0.000045	0.0012	1.0
N-Propylbenzene	<0.000071	mg/Kg Dry	0.000026	0.0012	1.0
sec-Butylbenzene	<0.00081	mg/Kg Dry	0.000071	0.0012	1.0
tert-Butylbenzene	<0.00052	mg/Kg Dry	0.000081	0.0012	1.0
Toluene	0.00033 J	mg/Kg Dry	0.000052	0.0012	1.0
Xylenes, Total	0.00017 J	mg/Kg Dry		0.0012	1.0
1,1,1-Trichloroethane	<0.000029	mg/Kg Dry	0.00012	0.0023	1.0
1,1-Dichloroethane	<0.00016	mg/Kg Dry	0.000029	0.0012	1.0
1,1-Dichloroethene	<0.00038	mg/Kg Dry	0.000016	0.0012	1.0
Carbon tetrachloride	<0.000037	mg/Kg Dry	0.000038	0.0012	1.0
cis-1,2-Dichloroethene	<0.000023	mg/Kg Dry	0.000037	0.0012	1.0
Methylene Chloride	0.012	mg/Kg Dry	0.000023	0.0012	1.0
Tetrachloroethene	<0.00012	mg/Kg Dry	0.000035	0.0012	1.0
trans-1,2-Dichloroethene	<0.00041	mg/Kg Dry	0.00012	0.0012	1.0
Trichloroethene	<0.00046		0.000041	0.0012	1.0
Vinyl chloride	<0.000036	mg/Kg Dry	0.000046	0.0012	1.0
2-Butanone (MEK)	<0.00035	mg/Kg Dry	0.000036	0.0012	1.0
Methyl tert-butyl ether	<0.000017	mg/Kg Dry	0.00035	0.0012	1.0
Acetone	<0.00024	mg/Kg Dry	0.000017	0.0012	1.0
•	10.00024	mg/Kg Dry	0.00024	0.0058	1.0
Surrogate			Accen	tance Limits	
Toluene-d8 (Suπ)	99	%		72 - 143	
4-Bromofluorobenzene	96	%		49 - 138	
1,2-Dichloroethane-d4 (Surr)	92	%		73 - 128	

Job Number: 420-117020-1 Sdg Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Client Sample ID:

Lab Sample ID:

420-117020-4

Date Sampled: 02/16/2017 1630

Date Received: 02/16/2017 1645

Client Matrix: Percent Solids: 85

Solid

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260C		Date Anal	vzed: 02/16/	2017 2004	
Prep Method: 5035-L		Date Prep	*	2017 2004	
1,2,4-Trimethylbenzene	<0.000052	mg/Kg Dry	0.000052		4.0
1,2-Dichlorobenzene	<0.00031	mg/Kg Dry	0.000032	0.00098	1.0
1,2-Dichloroethane	<0.000020	mg/Kg Dry	0.000031	0.00098	1.0
1,3,5-Trimethylbenzene	<0.000052	mg/Kg Dry	0.000052	0.00098	1.0
1,3-Dichlorobenzene	<0.000045	mg/Kg Dry	0.000052	0.00098	1.0
1,4-Dichlorobenzene	<0.000052	mg/Kg Dry	0.000045	0.00098	1.0
1,4-Dioxane	<0.0013	mg/Kg Dry	0.00052	0.00098	1.0
Benzene	<0.000020	mg/Kg Dry		0.0015	1.0
Chlorobenzene	<0.000030	mg/Kg Dry	0.000020	0.00098	1.0
Chloroform	<0.000018	mg/Kg Dry	0.000030	0.00098	1.0
Ethylbenzene	0.00024 J		0.000018	0.00098	1.0
n-Butylbenzene	<0.000023	mg/Kg Dry	0.000038	0.00098	1.0
N-Propylbenzene	<0.000023	mg/Kg Dry	0.000023	0.00098	1.0
sec-Butylbenzene	<0.000069	mg/Kg Dry	0.000061	0.00098	1.0
tert-Butylbenzene	<0.000044	mg/Kg Dry	0.000069	0.00098	1.0
Toluene	0.00064 J	mg/Kg Dry	0.000044	0.00098	1.0
Xylenes, Total	0.00035 J	mg/Kg Dry	0.000020	0.00098	1.0
1,1,1-Trichloroethane	<0.00033	mg/Kg Dry	0.000098	0.0020	1.0
1,1-Dichloroethane	<0.000024	mg/Kg Dry	0.000024	0.00098	1.0
1,1-Dichloroethene	<0.000014	mg/Kg Dry	0.000014	0.00098	1.0
Carbon tetrachloride	<0.000032	mg/Kg Dry	0.000032	0.00098	1.0
cis-1,2-Dichloroethene	<0.000031	mg/Kg Dry	0.000031	0.00098	1.0
Methylene Chloride	0.019	mg/Kg Dry	0.000020	0.00098	1.0
Tetrachloroethene	<0.00098	mg/Kg Dry	0.000029	0.00098	1.0
trans-1,2-Dichloroethene	<0.000098	mg/Kg Dry	0.000098	0.00098	1.0
Trichloroethene	<0.000039	mg/Kg Dry	0.000035	0.00098	1.0
Vinyl chloride	<0.000039	mg/Kg Dry	0.000039	0.00098	1.0
2-Butanone (MEK)		mg/Kg Dry	0.000030	0.00098	1.0
Methyl tert-butyl ether	<0.00029	mg/Kg Dry	0.00029	0.00098	1.0
Acetone	<0.000015	mg/Kg Dry	0.000015	0.00098	1.0
	<0.00021	mg/Kg Dry	0.00021	0.0049	1.0
Surrogate			Accent	ance Limits	
Toluene-d8 (Surr)	101	%	∧coehi	72 - 143	
4-Bromofluorobenzene	89	%		–	
1,2-Dichloroethane-d4 (Surr)	96	%		49 - 138 73 - 128	

Job Number: 420-117020-1 Sdg Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Client Sample ID:

Lab Sample ID:

420-117020-5

Date Sampled: 02/16/2017 1630

Date Received: 02/16/2017 1645

Client Matrix:

Solid Percent Solids: 84

		7 0100	in 00llus, 64		
Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260C		Date Ana	lyzed: 02/16/	/2017 2040	
Prep Method: 5035-L		Date Prep		2017 2040	
1,2,4-Trimethylbenzene	< 0.000049	mg/Kg Dry	0.000049		4.0
1,2-Dichlorobenzene	< 0.000030	mg/Kg Dry	0.000049	0.00092	1.0
1,2-Dichloroethane	<0.000018	mg/Kg Dry	0.000030	0.00092	1.0
1,3,5-Trimethylbenzene	<0.000049	mg/Kg Dry	0.000018	0.00092	1.0
1,3-Dichlorobenzene	<0.000042	mg/Kg Dry	0.000049	0.00092	1.0
1,4-Dichlorobenzene	<0.00049	mg/Kg Dry		0.00092	1.0
1,4-Dioxane	<0.0012	mg/Kg Dry	0.000049	0.00092	1.0
Benzene	<0.000018	- •	0.0012	0.0014	1.0
Chlorobenzene	<0.000029	mg/Kg Dry	0.000018	0.00092	1.0
Chloroform	<0.000025	mg/Kg Dry	0.000029	0.00092	1.0
Ethylbenzene		mg/Kg Dry	0.000017	0.00092	1.0
n-Butylbenzene	0.00023 <0.000021	mg/Kg Dry	0.000036	0.00092	1.0
N-Propylbenzene	<0.000021	mg/Kg Dry	0.000021	0.00092	1.0
sec-Butylbenzene	<0.000057	mg/Kg Dry	0.000057	0.00092	1.0
tert-Butylbenzene	<0.000065	mg/Kg Dry	0.000065	0.00092	1.0
Toluene		mg/Kg Dry	0.000042	0.00092	1.0
Xylenes, Total		mg/Kg Dry	0.000018	0.00092	1.0
1,1,1-Trichloroethane	0.00037 J	mg/Kg Dry	0.000092	0.0018	1.0
1,1-Dichloroethane	<0.000023	mg/Kg Dry	0.000023	0.00092	1.0
1,1-Dichloroethene	<0.000013	mg/Kg Dry	0.000013	0.00092	1.0
Carbon tetrachloride	<0.00030	mg/Kg Dry	0.000030	0.00092	1.0
cis-1,2-Dichloroethene	<0.00030	mg/Kg Dry	0.000030	0.00092	1.0
Methylene Chloride	<0.00018	mg/Kg Dry	0.000018	0.00092	1.0
Tetrachloroethene	0.019	mg/Kg Dry	0.000028	0.00092	1.0
trans-1,2-Dichloroethene	<0.000092	mg/Kg Dry	0.000092	0.00092	1.0
Trichloroethene	<0.000033	mg/Kg Dry	0.000033	0.00092	1.0
Vinyl chloride	<0.000037	mg/Kg Dry	0.000037	0.00092	1.0
	<0.000029	mg/Kg Dry	0.000029	0.00092	1.0
2-Butanone (MEK)	<0.00028	mg/Kg Dry	0.00028	0.00092	1.0
Methyl tert-butyl ether	<0.000014	mg/Kg Dry	0.000014	0.00092	1.0
Acetone	<0.00019	mg/Kg Dry	0.00019	0.0046	1.0
Surrogate			A = :	-	
Toluene-d8 (Surr)	101	%	Accep	tance Limits	
4-Bromofluorobenzene	95	% %		72 - 143	
1,2-Dichloroethane-d4 (Surr)	89			49 - 138	
. (55)	03	%		73 - 128	

Job Number: 420-117020-1 Sdg Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Client Sample ID:

Composite of Samples #1 - 5

Lab Sample ID:

420-117020-6

Date Sampled: 02/16/2017 1640

Date Received: 02/16/2017 1645

Client Matrix: Percent Solids: 84

Solid

Analyte	Result/Quai	ifier	Unit	MDL	RL	Dilution
Method: 8270D			Date Anal	vzed: 02/23	1/2017 2003	
Prep Method: 3546			Date Prep	•	/2017 1139	
2-Methylphenol	<0.12		mg/Kg Dry	0.12	0.39	1.0
3 & 4 Methylphenol	<0.11		mg/Kg Dry	0.11	0.39	1.0
Acenaphthene	<0.099		mg/Kg Dry	0.099	0.39	1.0
Acenaphthylene	<0.087		mg/Kg Dry	0.087	0.39	1.0
Anthracene	< 0.095		mg/Kg Dry	0.095	0.39	1.0
Benzo[a]anthracene	0.25	J	mg/Kg Dry	0.071	0.39	1.0
Benzo[a]pyrene	0.25	J	mg/Kg Dry	0.058	0.39	1.0
Benzo[b]fluoranthene	0.38	J	mg/Kg Dry	0.083	0.39	1.0
Benzo[g,h,i]perylene	0.19	J	mg/Kg Dry	0.081	0.39	1.0
Benzo[k]fluoranthene	0.17	Ĵ	mg/Kg Dry	0.066	0.39	1.0
Chrysene	0.31	J	mg/Kg Dry	0.074	0.39	1.0
Dibenz(a,h)anthracene	< 0.074	-	mg/Kg Dry	0.074	0.39	1.0
Dibenzofuran	<0.12		mg/Kg Dry	0.12	0.39	1.0
Fluoranthene	0.52		mg/Kg Dry	0.074	0.39	
Fluorene	<0.088		mg/Kg Dry	0.074	0.39	1.0
Hexachlorobenzene	<0.084		mg/Kg Dry	0.084	0.39	1.0
Indeno[1,2,3-cd]pyrene	0.21	J	mg/Kg Dry	0.076		1.0
Naphthalene	<0.086		mg/Kg Dry	0.086	0.39 0.39	1.0
Pentachlorophenol	<0.10		mg/Kg Dry	0.10	0.39 2.9	1.0
Phenol	<0.093		mg/Kg Dry	0.093		1.0
Phenanthrene	0.18	J	mg/Kg Dry	0.10	0.39	1.0
Pyrene	0.49	Ü	mg/Kg Dry	0.083	0.39 0.39	1.0 1.0
Surrogate			,		ptance Limits	1.0
2-Fluorophenol	69		%	Acce	10 - 120	
Nitrobenzene-d5	54		%		10 - 120	
Phenol-d5	68		%			
Terphenyl-d14	85		%		10 - 120	
2-Fluorobiphenyl	67		%		10 - 120	
2,4,6 - Tribromophenol	70		%		10 - 120 10 - 120	
Method: 8081B			Date Analy	zed: 02/17/	2017 1946	
Prep Method: 3546			Date Prepa		2017 1940	
4,4'-DDD	< 0.00036		mg/Kg Dry	0.00036		4.0
4,4'-DDE	<0.00029		mg/Kg Dry	0.00036	0.0011	1.0
4,4'-DDT	<0.00025		mg/Kg Dry	0.00029	0.00087	1.0
Aldrin	<0.00031		mg/Kg Dry		0.00094	1.0
alpha-BHC	<0.00022			0.00022	0.00067	1.0
alpha-Chlordane	<0.00073		mg/Kg Dry	0.00075	0.0022	1.0
beta-BHC	<0.00035		mg/Kg Dry	0.00030	0.00091	1.0
	~0.00023		mg/Kg Dry	0.00025	0.00076	1.0

Job Number: 420-117020-1 Sdg Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Client Sample ID: Composite of Samples #1 - 5

Lab Sample ID: 420-117020-6

Date Sampled: 02/16/2017 1640 Date Received: 02/16/2017 1645

Client Matrix: Solid Percent Solids: 84

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
delta-BHC	<0.00034	mg/Kg Dry	0.00034	0.0010	1.0
Dieldrin	< 0.00049	mg/Kg Dry	0.00049	0.0015	1.0
Endosulfan I	<0.00018	mg/Kg Dry	0.00018	0.0015	
Endosulfan II	<0.00041	mg/Kg Dry	0.00041	0.0012	1.0
Endosulfan sulfate	<0.00047	mg/Kg Dry	0.00047	0.0012	1.0
Endrin	<0.00064	mg/Kg Dry	0.00047		1.0
Heptachlor	<0.00018	mg/Kg Dry	0.00084	0.0019	1.0
gamma-BHC (Lindane)	<0.00081	mg/Kg Dry	0.00018	0.00053 0.0024	1.0 1.0
Surrogate		0 0 ,			1.0
DCB Decachlorobiphenyl	60	0.4	Acce	ptance Limits	
Tetrachloro-m-xylene	63	%		30 - 150	
-	63	%		30 - 150	
Method: 8082A Prep Method: 3546		Date Analy		2017 1946	
PCB-1016		Date Prepa	ared: 02/17/2	2017 0939	
PCB-1221	<0.0062	mg/Kg Dry	0.0062	0.077	1.0
PCB-1221	<0.010	mg/Kg Dry	0.010	0.077	1,0
·	<0.025	mg/Kg Dry	0.025	0.077	1.0
PCB-1242	<0.015	mg/Kg Dry	0.015	0.077	1.0
PCB-1248	<0.010	mg/Kg Dry	0.010	0.077	1.0
PCB-1254	<0.015	mg/Kg Dry	0.015	0.077	1.0
PCB-1260	<0.012	mg/Kg Dry	0.012	0.077	1.0
PCB-1262	<0.013	mg/Kg Dry	0.013	0.077	1.0
PCB-1268	<0.015	mg/Kg Dry	0.015	0.077	1.0
Surrogate			Accer	tance Limits	
2,4,5,6-Tetrachloro-m-xylene	63	%	Accep		
DCB Decachlorobiphenyl(surr)	61	%		30 - 150 30 - 150	
Method: 8151A		Data Analysi	4. 02/20/2		
Prep Method: 8151A		Date Analy:		017 1327	
Silvex (2,4,5-TP)	<0.095	Date Prepa mg/Kg Dry	0.095	017 0848 0.36	1.0
Method: 6010C					1.0
Prep Method: 3051A		Date Analy:		017 1700	
Silver	1.9 .i	Date Prepa		017 1130	
Arsenic	1.9 J 4.1	mg/Kg Dry	0.24	2.4	2.0
Barium		mg/Kg Dry	0.47	2.4	2.0
Beryllium	99	mg/Kg Dry	0.47	47	2.0
Cadmium	0.62 J	mg/Kg Dry	0.47	1.2	2.0
Chromium	<0.47	mg/Kg Dry	0.47	1,2	2.0
Copper	29	mg/Kg Dry	0.47	2.4	2.0
Manganese	30	mg/Kg Dry	1.4	5.9	2.0
nangancec	380	mg/Kg Dry	0.71	3.5	2.0

Job Number: 420-117020-1 Sdg Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Client Sample ID:

Composite of Samples #1 - 5

Lab Sample ID:

420-117020-6

Date Sampled: 02/16/2017 1640

Date Received: 02/16/2017 1645

Client Matrix: Percent Solids: 84

Solid

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Nickel	17				Dilution
Lead		mg/Kg Dry	0.71	9.5	2.0
	130	mg/Kg Dry	0.24	5.9	2.0
Selenium	2.4	mg/Kg Dry	1.4	2.4	
Zinc	130	,			2.0
	100	mg/Kg Dry	1.9	4.7	2.0
Method: 7471B Prep Method: 7471B Mercury	0.21	Date Analy Date Prepa mg/Kg Dry		0/2017 1600 0/2017 1000 0.040	1.0

Job Number: 420-117020-1 Sdg Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Client Sample ID:

Composite of Samples #1 - 5

Lab Sample ID:

420-117020-6

Date Sampled: 02/16/2017 1640

Date Received: 02/16/2017 1645

Client Matrix:

Solid

Percent Solids: 84

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 9012B Prep Method: 9010C Cyanide, Total	<1.2	Date Analy Date Prepa mg/Kg Dry		02/22/2017 1457 02/22/2017 0800 1.2	1.0

## DATA REPORTING QUALIFIERS

Client: John Sansevera

Job Number:

Sdg Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Lab Section	Qualifier	Description
GC/MS VOA		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC/MS Semi VOA		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

#### **Certification Information**

Client: John Sansevera

Job Number:

Sdg Number: 47 Gleneida Ridge Road, Carmel, NY 10512

### The following analytes are Not Part of the ELAP scope of accreditation:

Sulfur, Tungsten, Silicon, Bicarbonate Alkalinity, 7 Day BOD 5210C, 28 Day BOD, Soluble BOD, Carbon Dioxide, Carbonate Alkalinity, CBOD Soluble, Chlorine, Cyanide (WAD), Ferrous Iron, Ferric Iron, Total Nitrogen, Total Organic Nitrogen, Dissolved Oxygen, pH, Phenolphthalein Alkalinity, Solids (Fixed), Solids (Percent), Solids (Percent Moisture), Solids (Percent Volatile), Solids (Volatile Suspended), Temperature, TKN (Soluble), COD (Soluble), Total Inorganic Carbon, Volatile Acids as Acetic Acid, 2-Aminopyridine, 3-Picoline, 1-Methyl-2-pyrrilidinone, Aziridine, Dimethyl sulfoxide, 1-Chlorohexane, Iron Bacteria, Salmonella, & Sulfur Reducing Bacteria.

### The following analytes are Not Part of ELAP Potable Water scope of accreditation:

Cobalt (200.7, 200.8), Tin (200.7), Strontium (200.7), Gold (200.7), Platinum (200.7), Palladium (200.7), Titanium (200.7), Phosphorus (365.3), Nitrate-Nitrite (10-107-4-1C, 353.2), m-Xylene & p-Xylene (502.2, 524), Naphthalene (502.2), o-Xylene (502.2, 524), & Fecal Coliform (9222D).

## The following analytes are Not Part of ELAP Solid and Hazardous Waste scope of accreditation:

Ammonia (SM 4500NH3G), TKN (351.2), Phosphorus (365.3), 1,2-Dichloro-1,1,2-trifluoroethane (8260), & Chlorodifluoromethane (8260).

## The following analytes are Not Part of ELAP Non Potable Water scope of accreditation:

Dissolved Organic Carbon (5310C), Mecoprop (8151A), & MCPA (8151A).

## **Definitions and Glossary**

Client: John Sansevera

Job Number:

Sdg Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Abbreviation	These commonly used abbreviations may or may not be present in this report.
%R	Percent Recovery
DL, RA, RE	Indicates a Dilution, Reanalysis or Reextraction.
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit - an estimate of the minimum amount of a substance that an analytical process can reliably detect. A MDL is analyte- and matrix-specific and may be laboratory-dependent.
ND	Not detected at the reporting limit (or MDL if shown).
QC	Quality Control
RL	Reporting Limit - the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.
RPD	Relative Percent Difference - a measure of the relative difference between two points.

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## LOGIN SAMPLE RECEIPT CHECK LIST

Client: John Sansevera

Job Number: 420-117020-1

SDG Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Login Number: 117020

Question	T/F/NA	Comment
Samples were collected by ETL employee as per SOP-SAM-1	NA NA	Comment
The cooler's custody seal, if present, is intact.	NA.	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is recorded.	True	8.1 C
Cooler Temp. is within method specified range.(0-6 C PW, 0-8 C NPW, or BAC <10 C	True	3.1 0
If false, was sample received on ice within 6 hours of collection.	NA	
Based on above criteria cooler temperature is acceptable.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	Smpld into TerraCore Kits at ETL
Sample bottles are completely filled.	True	2/16/17 @ 1645. AE 2/17/16
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	NA	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



#### ANALYTICAL REPORT

Lab Number:

L1705112

Client:

Envirotest Laboratories Inc.

315 Fullerton Avenue

Newburgh, NY 12550

ATTN:

Laura Marciano

Phone:

(845) 562-0890

Project Name:

WALKIN CLIENT

Project Number:

42000038

Report Date:

02/23/17

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Lab Number:

L1705112 02/23/17

Report Date:

42000038 Project Number: Alpha Sample ID

WALKIN CLIENT

Project Name:

Client ID

COMPOSITE OF SAMPLES #1-5 (420-117020-6)

L1705112-01

Matrix SOIL

Not Specified Sample Location

Collection Date/Time

Receive Date

02/16/17 16:40

02/17/17

Page 2 of 16

Project Name:

WALKIN CLIENT

**Project Number:** 

42000038

Lab Number:

L1705112

Report Date:

02/23/17

#### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:

WALKIN CLIENT

**Project Number:** 

42000038

Lab Number:

L1705112

Report Date:

02/23/17

#### Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Kara Lindquist

Authorized Signature:

Title: Technical Director/Representative

Date: 02/23/17

## INORGANICS & MISCELLANEOUS

Project Name:

WALKIN CLIENT

Project Number: 42000038

Lab Number:

L1705112

Report Date:

02/23/17

**SAMPLE RESULTS** 

Lab ID:

L1705112-01

Client ID:

COMPOSITE OF SAMPLES #1-5 (420

Sample Location: Not Specified

Matrix:

Soil

Date Collected:

02/16/17 16:40

Date Received:

02/17/17

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	estborough Lab	)								
Solids, Total	83.6		%	0.100	NA	1		02/18/17 16:37	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	0.96	0.19	1	02/19/17 16:20		1,7196A	RP

**Project Name:** 

WALKIN CLIENT

Project Number: 42000038

Lab Number:

L1705112

Report Date:

02/23/17

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westi	borough Lab for sam	ple(s): 01	Batch:	WG97	9186-1				
Chromium, Hexavalent	ND	mg/kg	0.80	0.16	1	02/19/17 16:20	02/20/17 22:57	1,7196A	RP

## Lab Control Sample Analysis Batch Quality Control

WALKIN CLIENT

42000038

Project Number: Project Name:

Lab Number:

L1705112

02/23/17

Report Date:

%Recovery Limits LCSD %Recovery LCS %Recovery

General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG979186-2

Chromium, Hexavalent

Parameter

98

80-120

20

RPD Limits

Qua

RPD

Qual

Qual

עובוק

### Matrix Spike Analysis Batch Quality Control

WALKIN CLIENT

42000038

Project Number:

Project Name:

Lab Number:

L1705112

02/23/17 Report Date:

RPD RPD Qual Limits General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG979186-4 QC Sample: L1705114-01 Client ID: MS Sample MSD Recovery %Recovery Qual Limits MS MS MSFound WRecovery Qual Found MS Added Native Sample Parameter

110

830

837

0.19

Chromium, Hexavalent

75-125

20

Page 9 of 16

ALPHA

ALPha

Lab Duplicate Analysis Batch Quality Control

WALKIN CLIENT

Project Number: Project Name:

Lab Number:

L1705112 02/23/17 Report Date: 42000038

Parameter	Native Sample	Duplicate Sample	mple	Units	RPD	C C	RPD Qual BDD I imite
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG979082-1 QC Sample: L1705166-01 Client ID: DI ID: Sample	01 QC Batch ID:	WG979082-1	QC Sampl	e: L170516	6-01 Clien		Sample
Solids, Total	88.4	88.5		%	0		
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG979186-6 QC Sample: L1705114-01 Client ID: OI ID Sample:	01 QC Batch ID:	WG979186-6	QC Sample	e: L170511	4-01 Clion	<u>.</u>	
Chromium, Hexavalent	0.19J	QN	_	mg/kg	NC		Sample 20

Project Name: WALKIN CLIENT

Project Number: 42000038

Lab Number: L1705112

Report Date: 02/23/17

**Sample Receipt and Container Information** 

Were project specific reporting limits specified?

YES

Cooler Information Custody Seal

Cooler

Α

Absent

Container Information

Container ID Container Type

Cooler pH deg C Pres Seal Analysis(\*)

L1705112-01A Glass 120ml/4oz unpreserved A N/A 3.5 Y Absent TS(7),HEXCR-7196(30)

WALKIN CLIENT

Lab Number: L1705112

**Project Number:** 

42000038

Report Date: 02/23/17

### **GLOSSARY**

### Acronyms

**EDL** 

- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

**EPA** 

Environmental Protection Agency

LCS

- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD

Laboratory Control Sample Duplicate: Refer to LCS.

LFB

- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL.

- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS

- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD

Matrix Spike Sample Duplicate: Refer to MS.

NA

Not Applicable.

NC

- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI

- Not Ignitable

NP

- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RI.

- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable

RPD

- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM

- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP

- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TIC

- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### **Footnotes**

1

- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- Spectra identified as "Aldol Condensation Product". A

В - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers

WALKIN CLIENT

Lab Number:

L1705112

**Project Number:** 

42000038

Report Date:

02/23/17

### **Data Qualifiers**

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations
  of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G -The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- The lower value for the two columns has been reported due to obvious interference.
- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where
  the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q -The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R Analytical results are from sample re-analysis.
- RE Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

WALKIN CLIENT

Project Number: 4200

42000038

Lab Number:

L1705112

Report Date:

02/23/17

### REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

### **LIMITATION OF LIABILITIES**

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Alpha Analytical, Inc. Facility: Company-wide

. .

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873

Revision 10

Published Date: 1/16/2017 11:00:05 AM

Page 1 of 1

### **Certification Information**

### The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyttoluene, Azobenzene; SCM: lodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-

Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: NPW and SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

EPA 9012B: NPW: Total Cyanide

EPA 9050A: NPW: Specific Conductance

SM3500: NPW Ferrous Iron

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

SM5310C: DW: Dissolved Organic Carbon

**Mansfield Facility** SM 2540D: TSS EPA 3005A NPW

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

### The following analytes are included in our Massachusetts DEP Scope of Accreditation

### Westborough Facility:

**Drinking Water** 

EPA 300.0: Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colliert-QT,SM9222D.

### Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, SM4500NO3-F, EPA 353.2: Nitrate-N, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E.

### Mansfield Facility:

Drinking Water

EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. EPA 245.1 Hg.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

EnviroTest Serial\_No:02231717:18

Laboratories Inc.

Chain of Custody Record

EnviroTest Laboratories, Inc.

315 Fullerton Avenue

Newburgh, NY 12550 Phone (845) 562-0890 Fax (845) 562-0841

P. Nazoka Q. Nazoka R. Nazozoka S. Hosoka T. TSP Dodecatydrak U. Acekone V. MCAA W. ph 4-5 Special Instructions/Note: Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Leb Archive For Mont
Special Instructions/QC Requirements: CCC Nr: 420-9789.1 Page: 1 of 1 STL Joh#: 420-117020-1 Preservation Codes: J. Di Water K. EDTA L. EDA Frenchistor of containers Method of Shipment: **Analysis Requested** coler Temperature(s) \*C and Other Remark Lab PW:
Marciano, Laura L
E-Wat:
Imarclano@envirotestiaboratories.com SUBCONTRACT/ Hex Ct to Alpha Matrix Preservation Code; Solid 4 Sample
Type
(C=comp, Radiological Bus Data Requested: 89882017 Standard TAT Requested (days): Sample Time 16:40 Unknown Date: Sample Date 2/16/17 Project #: 42000038 SSCW#: Poison B Composite of Samples #1 - 5 (420-117020-6) Skin Irritant Client Information (Sub Contract Lab) Mon-Hezard Flammable Skin Irriti Deliverable Requested: I, III, IV, Other (specify) Sample Identification Client ID (Lab ID) Custody Seals Intact: Custody Seal No. Possible Hazard Identification Empty Kit Relinquished by: Shipping/Receiving Page 16 Mis 16 No olinquished by: / Vipha Analytical 8 Waltup Drive, Project Name: Walkin Client Westborough Starte, Zip: MA, 01581

### **Appendix A**



### **ANALYTICAL REPORT**

Job Number: 420-117020-1

SDG Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Job Description: Walkin Client

For:

John Sansevera 47 Gleneida Ridge Road Carmel, NY 10512

Attention: John Sansevera

Laura marciano

Laura L Marciano
Customer Service Manager
Imarciano@envirotestlaboratories.com
03/01/2017

cc: Ms. Renee Cusack

NYSDOH ELAP does not certify for all parameters. EnviroTest Laboratories does hold certification for all analytes where certification is offered by ELAP unless otherwise specified in the Certification Information section of this report Pursuant to NELAP, this report may not be reproduced, except in full, without written approval of the laboratory. EnviroTest Laboratories Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our laboratory. All questions regarding this report should be directed to the EnviroTest Customer Service Representative.

EnviroTest Laboratories, Inc. Certifications and Approvals: NYSDOH 10142, NJDEP NY015, CTDOPH PH-0554



### **METHOD SUMMARY**

Client: John Sansevera

Job Number: 420-117020-1 SDG Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry Microwave Assisted Acid Digestion of Sediments,	EnvTest EnvTest	SW846 6010C	SW846 3051A
Hg in Solids & Semi-solids Mercury in Solid or Semi-Solid Waste (Manual Cold	EnvTest EnvTest	SW846 7471B	SW846 7471B
Organochlorine Pesticides by Gas Chromatography Microwave Extraction	EnvTest EnvTest	SW846 8081B	SW846 3546
Polychlorinated Biphenyls (PCBs) by Gas Chromatography Microwave Extraction	EnvTest EnvTest	SW846 8082A	SW846 3546
Chlorinated Herbicides by GC Chlorinated Herbicides by GC - Solids Prep	EnvTest EnvTest	SW846 8151A	SW846 8151A
Volatile Organic Compounds by GC/MS Closed System Purge & Trap Low Level	EnvTest EnvTest	SW846 8260C	EPA 5035-L
Semivolatile Compounds by GC/MS Microwave Extraction	EnvTest EnvTest	SW846 8270D	SW846 3546
Total and Amenable Cyanide (Automated Colorimetric, with Off-Line Distillation)  Cyanide Distillation	EnvTest	SW846 9012B	
General Sub Contract Method	EnvTest Alpha	Subcontract	SW846 9010C

### Lab References:

Alpha = Alpha Analytical, Inc.

EnvTest = EnviroTest

### **Method References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Job Number: 420-117020-1 Sdg Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Client Sample ID:

Lab Sample ID:

420-117020-1

Date Sampled: 02/16/2017 1630

Date Received: 02/16/2017 1645

Client Matrix:

Solid Percent Solids: 81

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260C		Date Analy	yzed: 02/16/2	2017 1817	
Prep Method: 5035-L		Date Prep	ared: 02/16/2	2017 1817	
1,2,4-Trimethylbenzene	<0.00053	mg/Kg Dry	0.000053	0.0010	1.0
1,2-Dichlorobenzene	<0.000032	mg/Kg Dry	0.000032	0.0010	1.0
1,2-Dichloroethane	<0.000020	mg/Kg Dry	0.000020	0.0010	1.0
1,3,5-Trimethylbenzene	< 0.000053	mg/Kg Dry	0.000053	0.0010	1.0
1,3-Dichlorobenzene	<0.00046	mg/Kg Dry	0.000046	0.0010	1.0
1,4-Dichlorobenzene	< 0.000053	mg/Kg Dry	0.000053	0.0010	1.0
1,4-Dioxane	<0.0013	mg/Kg Dry	0.0013	0.0015	1.0
Benzene	<0.000020	mg/Kg Dry	0.000020	0.0010	1.0
Chlorobenzene	< 0.000031	mg/Kg Dry	0.000031	0.0010	1.0
Chloroform	< 0.000018	mg/Kg Dry	0.000018	0.0010	1.0
Ethylbenzene	0.00027 J	mg/Kg Dry	0.000039	0.0010	1.0
n-Butylbenzene	< 0.000023	mg/Kg Dry	0.000023	0.0010	1.0
N-Propylbenzene	< 0.000062	mg/Kg Dry	0.000062	0.0010	1.0
sec-Butylbenzene	<0.00070	mg/Kg Dry	0.000070	0.0010	1.0
tert-Butylbenzene	<0.00045	mg/Kg Dry	0.000045	0.0010	1.0
Toluene	0.00064 J	mg/Kg Dry	0.000020	0.0010	1.0
Xylenes, Total	0.00060 J	mg/Kg Dry	0.00010	0.0020	1.0
1,1,1-Trichloroethane	<0.000025	mg/Kg Dry	0.000025	0.0010	1.0
1,1-Dichloroethane	<0.00014	mg/Kg Dry	0.000014	0.0010	1.0
1,1-Dichloroethene	<0.00033	mg/Kg Dry	0.000033	0.0010	1.0
Carbon tetrachloride	<0.000032	mg/Kg Dry	0.000032	0.0010	1.0
cis-1,2-Dichloroethene	<0.000020	mg/Kg Dry	0.000020	0.0010	1.0
Methylene Chloride	0.0096	mg/Kg Dry	0.000030	0.0010	1.0
Teirachloroethene	<0.00010	mg/Kg Dry	0.00010	0.0010	1.0
trans-1,2-Dichloroethene	<0.00036	mg/Kg Dry	0.000036	0.0010	1.0
Trichtoroethene	<0.00040	mg/Kg Dry	0.000040	0.0010	1.0
Vinyl chloride	<0.00031	mg/Kg Dry	0.000031	0.0010	1.0
2-Butanone (MEK)	<0.00030	mg/Kg Dry	0.00030	0.0010	1.0
Methyl tert-butyl ether	<0.00015	mg/Kg Dry	0.000015	0.0010	1.0
Acetone	<0.00021	mg/Kg Dry	0.00021	0.0050	1.0
Surrogate			Accep	tance Limits	
Toluene-d8 (Surr)	100	%	•	72 - 143	
4-Bromofluorobenzene	91	%		49 - 138	
1,2-Dichloroethane-d4 (Surr)	90	%		73 - 128	

Job Number: 420-117020-1 Sdg Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Client Sample ID:

Lab Sample ID:

420-117020-2

Date Sampled: 02/16/2017 1630

Date Received: 02/16/2017 1645

Client Matrix: Percent Solids: 85

Solid

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260C		Date Anal	vzed: 02/16/	2017 1852	
Prep Method: 5035-L		Date Prep		2017 1852	
1,2,4-Trimethylbenzene	< 0.000050	mg/Kg Dry	0.000050	0.00094	1.0
1,2-Dichlorobenzene	<0.000030	mg/Kg Dry	0.000030	0.00094	1.0
1,2-Dichloroethane	< 0.000019	mg/Kg Dry	0.000019	0.00094	1.0
1,3,5-Trimethylbenzene	<0.000050	mg/Kg Dry	0.000050	0.00094	1.0
1,3-Dichlorobenzene	< 0.000043	mg/Kg Dry	0.000043	0.00094	1.0
1,4-Dichlorobenzene	< 0.000050	mg/Kg Dry	0.000050	0.00094	1.0
1,4-Dioxane	<0.0012	mg/Kg Dry	0.0012	0.0014	1.0
Benzene	< 0.000019	mg/Kg Dry	0.000019	0.00094	1.0
Chlorobenzene	<0.000029	mg/Kg Dry	0.000029	0.00094	1.0
Chloroform	<0.000017	mg/Kg Dry	0.000017	0.00094	1.0
Ethylbenzene	0.00021 J	mg/Kg Dry	0.000037	0.00094	1.0
n-Butylbenzene	<0.000022	mg/Kg Dry	0.000022	0.00094	1.0
N-Propylbenzene	<0.00058	mg/Kg Dry	0.000058	0.00094	1.0
sec-Butylbenzene	<0.00066	mg/Kg Dry	0.000066	0.00094	1.0
tert-Butylbenzene	<0.00042	mg/Kg Dry	0.000042	0.00094	1.0
Toluene	0.00041 J	mg/Kg Dry	0.000012	0.00094	1.0
Xylenes, Total	0.00029 J	mg/Kg Dry	0.000018	0.0019	1.0
1,1,1-Trichloroethane	<0.000024	mg/Kg Dry	0.000024	0.00094	1.0
1,1-Dichloroethane	<0.000013	mg/Kg Dry	0.000024	0.00094	1.0
1,1-Dichloroethene	<0.000031	mg/Kg Dry	0.000031	0.00094	1.0
Carbon tetrachloride	< 0.000030	mg/Kg Dry	0.000030	0.00094	1.0
cis-1,2-Dichloroethene	<0.00019	mg/Kg Dry	0.000019	0.00094	1.0
Methylene Chloride	0.010	mg/Kg Dry	0.000028	0.00094	1.0
Tetrachloroethene	<0.00094	mg/Kg Dry	0.000094	0.00094	1.0
trans-1,2-Dichloroethene	< 0.000034	mg/Kg Dry	0.000034	0.00094	1.0
Trichloroethene	<0.00038	mg/Kg Dry	0.000034	0.00094	1.0
Vinyl chloride	<0.000029	mg/Kg Dry	0.000029	0.00094	1.0
2-Butanone (MEK)	<0.00028	mg/Kg Dry	0.00028	0.00094	1.0
Methyl tert-butyl ether	<0.00014	mg/Kg Dry	0.00028	0.00094	1.0
Acetone	<0.00020	mg/Kg Dry	0.00020	0.00034	1.0
Surrogate			Accen	tance Limits	
Toluene-d8 (Surr)	103	%	500p	72 - 143	
4-Bromofluorobenzene	92	%		49 - 138	
1,2-Dichloroethane-d4 (Surr)	95	%		73 - 128	

Job Number: 420-117020-1 Sdg Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Client Sample ID:

Lab Sample ID:

420-117020-3

Date Sampled: 02/16/2017 1630

Date Received: 02/16/2017 1645

Client Matrix:

Solid

Percent Solids: 85

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260C		Date Ana	(vzed: 02/16/	2017 1928	
Prep Method: 5035-L		Date Prep	•	2017 1928	
1,2,4-Trimethylbenzene	<0.00061	mg/Kg Dry	0.000061	0.0012	4.0
1,2-Dichlorobenzene	<0.000037	mg/Kg Dry	0.000037	0.0012	1.0
1,2-Dichloroethane	<0.000023	mg/Kg Dry	0.000037	0.0012	1.0
1,3,5-Trimethylbenzene	<0.00061	mg/Kg Dry	0.000023		1.0
1,3-Dichlorobenzene	<0.000053	mg/Kg Dry	0.000051	0.0012	1.0
1,4-Dichlorobenzene	<0.00061	mg/Kg Dry	0.000053	0.0012	1.0
1,4-Dioxane	<0.0015	mg/Kg Dry		0.0012	1.0
Benzene	<0.00023	mg/Kg Dry	0.0015	0.0017	1.0
Chlorobenzene	<0.00036	mg/Kg Dry	0.000023	0.0012	1.0
Chloroform	<0.000021		0.000036	0.0012	1.0
Ethylbenzene	0.00012 J	mg/Kg Dry	0.000021	0.0012	1.0
n-Butylbenzene	<0.00026	mg/Kg Dry	0.000045	0.0012	1.0
N-Propylbenzene	<0.000020	mg/Kg Dry	0.000026	0.0012	1.0
sec-Butylbenzene	<0.00081	mg/Kg Dry	0.000071	0.0012	1.0
ert-Butylbenzene	<0.000052	mg/Kg Dry	0.000081	0.0012	1.0
Toluene		mg/Kg Dry	0.000052	0.0012	1.0
Kylenes, Total		mg/Kg Dry	0.000023	0.0012	1.0
I,1,1-Trichloroethane	-	mg/Kg Dry	0.00012	0.0023	1.0
I,1-Dichloroethane	<0.000029	mg/Kg Dry	0.000029	0.0012	1.0
,1-Dichloroethene	<0.00016	mg/Kg Dry	0.000016	0.0012	1.0
Carbon tetrachloride	<0.000038	mg/Kg Dry	0.000038	0.0012	1.0
is-1,2-Dichloroethene	<0.00037	mg/Kg Dry	0.000037	0.0012	1.0
Methylene Chloride	<0.000023	mg/Kg Dry	0.000023	0.0012	1.0
etrachloroethene	0.012	mg/Kg Dry	0.000035	0.0012	1.0
rans-1,2-Dichloroethene	<0.00012	mg/Kg Dry	0.00012	0.0012	1.0
richloroethene	<0.000041	mg/Kg Dry	0.000041	0.0012	1.0
inyl chloride	<0.00046	mg/Kg Dry	0.000046	0.0012	1.0
-Butanone (MEK)	<0.000036	mg/Kg Dry	0.000036	0.0012	1.0
lethyl tert-butyl ether	<0.00035	mg/Kg Dry	0.00035	0.0012	1.0
Cetone	<0.000017	mg/Kg Dry	0.000017	0.0012	1.0
CETOLIC	<0.00024	mg/Kg Dry	0.00024	0.0058	1.0
urrogate			Δ		
oluene-d8 (Surr)	99	%	Accept	tance Limits	
Bromofluorobenzene	96	% %		72 - 143	
2-Dichloroethane-d4 (Surr)	92	% %		49 - 138	
ζ··· <b>/</b>	J2	%		73 - 128	

Job Number: 420-117020-1 Sdg Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Client Sample ID:

Lab Sample ID:

420-117020-4

Date Sampled: 02/16/2017 1630

Date Received: 02/16/2017 1645

Client Matrix: Percent Solids: 85

Solid

Analyte	Result/Qualifier	Unit	MÐL	RL	Dilution
Method: 8260C		Date Anal	vzed: 02/16	5/2017 2004	at was
Prep Method: 5035-L		Date Prep	•	5/2017 2004	
1,2,4-Trimethylbenzene	<0.000052	mg/Kg Dry	0.000052	0.00098	1.0
1,2-Dichlorobenzene	<0.000031	mg/Kg Dry	0.000031	0.00098	1.0
1,2-Dichloroethane	<0.000020	mg/Kg Dry	0.000020	0.00098	1.0
1,3,5-Trimethylbenzene	<0.000052	mg/Kg Dry	0.000052	0.00098	1.0
1,3-Dichlorobenzene	<0.00045	mg/Kg Dry	0.000032	0.00098	1.0
1,4-Dichlorobenzene	<0.000052	mg/Kg Dry	0.000052	0.00098	
1,4-Dioxane	<0.0013	mg/Kg Dry	0.00032	0.00096	1.0
Benzene	<0.000020	mg/Kg Dry	0.000020	0.00018	1.0
Chlorobenzene	<0.00030	mg/Kg Dry	0.000020		1.0
Chloroform	<0.00018	mg/Kg Dry	0.000030	0.00098	1.0
Ethylbenzene	0.00024 J	mg/Kg Dry	0.000018	0.00098	1.0
n-Butylbenzene	<0.000023	mg/Kg Dry	0.000038	0.00098	1.0
N-Propylbenzene	<0.00061	mg/Kg Dry	0.000023	0.00098	1.0
sec-Butylbenzene	<0.00069	mg/Kg Dry	0.000061	0.00098	1.0
tert-Butylbenzene	<0.00044	mg/Kg Dry		0.00098	1.0
Toluene	0.00064 J		0.000044	0.00098	1.0
Xylenes, Total	0.00035 J	mg/Kg Dry	0.000020	0.00098	1.0
1,1,1-Trichloroethane	<0.00024	mg/Kg Dry	0.000098	0.0020	1.0
1,1-Dichloroethane	<0.00014	mg/Kg Dry	0.000024	0.00098	1.0
1.1-Dichloroethene	<0.000032	mg/Kg Dry	0.000014	0.00098	1.0
Carbon tetrachloride	<0.000032	mg/Kg Dry	0.000032	0.00098	1.0
cis-1,2-Dichloroethene	<0.000031	mg/Kg Dry	0.000031	0.00098	1.0
Methylene Chloride	0.019	mg/Kg Dry	0.000020	0.00098	1.0
Tetrachloroethene	<0.00098	mg/Kg Dry	0.000029	0.00098	1.0
trans-1,2-Dichloroethene	<0.000035	mg/Kg Dry	0.000098	0.00098	1.0
Trichloroethene	<0.00039	mg/Kg Dry	0.000035	0.00098	1.0
Vinyl chloride		mg/Kg Dry	0.000039	0.00098	1.0
2-Butanone (MEK)	<0.000030	mg/Kg Dry	0.000030	0.00098	1.0
Methyl tert-butyl ether	<0.00029	mg/Kg Dry	0.00029	0.00098	1.0
Acetone	<0.000015	mg/Kg Dry	0.000015	0.00098	1.0
	<0.00021	mg/Kg Dry	0.00021	0.0049	1.0
Surrogate			Acce	ptance Limits	
Foluene-d8 (Surr)	101	%	AUGE	72 - 143	
1-Bromofluorobenzene	89	%			
1,2-Dichtoroethane-d4 (Surr)	96	%		49 - 138 73 - 128	

Job Number: 420-117020-1 Sdg Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Client Sample ID:

Lab Sample ID:

420-117020-5

Date Sampled:

02/16/2017 1630

73 - 128

Date Received:

02/16/2017 1645

Client Matrix: Percent Solids:

Solid 84

Analyte Result/Qualifier Unit MDL RL Dilution Method: 8260C Date Analyzed: 02/16/2017 2040 Prep Method: 5035-L Date Prepared: 02/16/2017 2040 1,2,4-Trimethylbenzene < 0.000049 mg/Kg Dry 0.000049 0.00092 1.0 1,2-Dichlorobenzene <0.000030 mg/Kg Dry 0.000030 0.00092 1.0 1,2-Dichloroethane < 0.000018 mg/Kg Dry 0.000018 0.00092 1.0 1,3,5-Trimethylbenzene < 0.000049 mg/Kg Dry 0.000049 0.00092 1.0 1,3-Dichlorobenzene < 0.000042 mg/Kg Dry 0.000042 0.00092 1.0 1,4-Dichlorobenzene < 0.000049 mg/Kg Dry 0.000049 0.00092 1.0 1,4-Dioxane < 0.0012 mg/Kg Dry 0.0012 0.0014 1.0 Benzene < 0.000018 mg/Kg Dry 0.000018 0.00092 1.0 Chlorobenzene < 0.000029 mg/Kg Dry 0.000029 0.00092 1.0 Chloroform < 0.000017 mg/Kg Dry 0.000017 0.00092 1.0 Ethylbenzene 0.00023 mg/Kg Dry 0.000036 0.00092 1.0 n-Butylbenzene < 0.000021 mg/Kg Dry 0.000021 0.00092 1.0 N-Propyibenzene < 0.000057 mg/Kg Dry 0.000057 0.00092 1.0 sec-Butylbenzene < 0.000065 mg/Kg Dry 0.000065 0.00092 1.0 tert-Butylbenzene < 0.000042 mg/Kg Dry 0.000042 0.00092 1.0 Toluene 0.00043 J mg/Kg Dry 0.000018 0.00092 1.0 Xylenes, Total 0.00037 J mg/Kg Dry 0.000092 0.0018 1.0 1,1,1-Trichloroethane < 0.000023 mg/Kg Dry 0.000023 0.00092 1.0 1,1-Dichloroethane < 0.000013 mg/Kg Dry 0.000013 0.00092 1.0 1,1-Dichloroethene <0.000030 mg/Kg Dry 0.000030 0.00092 1.0 Carbon tetrachloride < 0.000030 mg/Kg Dry 0.000030 0.00092 1.0 cis-1,2-Dichloroethene < 0.000018 mg/Kg Dry 0.000018 0.00092 1.0 Methylene Chloride 0.019 mg/Kg Dry 0.000028 0.00092 1.0 Tetrachloroethene <0.000092 mg/Kg Dry 0.000092 0.00092 1.0 trans-1,2-Dichloroethene < 0.000033 mg/Kg Dry 0.000033 0.00092 1.0 Trichloroethene < 0.000037 mg/Kg Dry 0.000037 0.00092 1.0 Vinyl chloride < 0.000029 mg/Kg Dry 0.000029 0.00092 1.0 2-Butanone (MEK) <0.00028 mg/Kg Dry 0.00028 0.00092 1.0 Methyl tert-butyl ether < 0.000014 mg/Kg Dry 0.000014 0.00092 1.0 Acetone <0.00019 mg/Kg Dry 0.00019 0.0046 1.0 Surrogate Acceptance Limits Toluene-d8 (Surr) 101 % 72 - 1434-Bromofluorobenzene 95 % 49 - 138 1,2-Dichloroethane-d4 (Surr) 89

%

Job Number: 420-117020-1 Sdg Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Client Sample ID:

Composite of Samples #1 - 5

Lab Sample ID:

420-117020-6

Date Sampled: 02/16/2017 1640

Date Received: 02/16/2017 1645

Client Matrix: Percent Solids: 84

Solid

			1 6106	m Solias:	84	
Analyte	Result/Qua	lifier	Unit	MDL	RL	Dilutio
Method: 8270D			Date Ana	h.== al.	00/00/0047 0000	
Prep Method: 3546			Date Prep		02/23/2017 2003	
2-Methylphenol	<0.12		mg/Kg Dry		02/22/2017 1139	
3 & 4 Methylphenol	<0.11			0.12	0.39	1.0
Acenaphthene	<0.099		mg/Kg Dry	0.11	0.39	1.0
Acenaphthylene	<0.087		mg/Kg Dry	0.099	0.39	1.0
Anthracene	<0.095		mg/Kg Dry	0.087	0.39	1.0
Benzo[a]anthracene	0,25		mg/Kg Dry	0.095	0.39	1.0
Benzo[a]pyrene	0.25	J	mg/Kg Dry	0.071	0.39	1.0
Benzo[b]fluoranthene	0.25	J	mg/Kg Dry	0.058	0.39	1.0
Benzo[g,h,i]perylene		J	mg/Kg Dry	0.083	0.39	1.0
Benzo[k]fluoranthene	0.19	J	mg/Kg Dry	0.081	0.39	1.0
Chrysene	0.17	J	mg/Kg Dry	0.066	0.39	1.0
Dibenz(a,h)anthracene	0.31	J	mg/Kg Dry	0.074	0.39	1.0
Dibenzofuran	<0.074		mg/Kg Dry	0.074	0.39	1.0
Fluoranthene	<0.12		mg/Kg Dry	0.12	0.39	1.0
Fluoranthene Fluorene	0.52		mg/Kg Dry	0.074	0.39	1.0
<del>-</del>	<0.088		mg/Kg Dry	0.088	0.39	1.0
Hexachlorobenzene	<0.084		mg/Kg Dry	0.084	0.39	1.0
Indeno[1,2,3-cd]pyrene	0.21	J	mg/Kg Dry	0.076	0.39	
Naphthalene -	<0.086		mg/Kg Dry	0.086	0.39	1.0
Pentachlorophenol	<0.10		mg/Kg Dry	0.10	2.9	1.0
Phenol	<0.093		mg/Kg Dry	0.093		1.0
Phenanthrene	0.18	J	mg/Kg Dry	0.10	0.39	1.0
Pyrene	0.49	-	mg/Kg Dry	0.10	0.39 0.39	1.0 1.0
Surrogate						1.0
2-Fluorophenol	69		%		Acceptance Limits	
Nitrobenzene-d5	54		%		10 - 120	
⊃henol-d5	68		%		10 - 120	
Ferphenyl-d14	85				10 - 120	
2-Fluorobiphenyl	67		%		10 - 120	
2,4,6 - Tribromophenol	70		% %		10 - 120	
Method: 8081B					10 - 120	
Prep Method: 3546			Date Analyz		2/17/2017 1946	
,4'-DDD	<0.00036		Date Prepar		2/17/2017 0939	
,4'-DDE			mg/Kg Dry	0.00036	0.0011	1.0
,4'-DDT	<0.00029		mg/Kg Dry	0.00029	0.00087	1.0
Adrin	<0.00031		mg/Kg Dry	0.00031	0.00094	1.0
lpha-BHC	<0.00022		mg/Kg Dry	0.00022	0.00067	1.0
lpha-Chlordane	<0.00075		mg/Kg Dry	0.00075	0.0022	1.0
eta-BHC	<0.00030		mg/Kg Dry	0.00030	0.00091	1.0
Ota-Di IC	<0.00025		mg/Kg Dry	0.00025	0.00076	1.0

Job Number: 420-117020-1 Sdg Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Client Sample ID:

Composite of Samples #1 - 5

Lab Sample ID:

420-117020-6

Date Sampled: 02/16/2017 1640

Date Received: 02/16/2017 1645

Client Matrix: Percent Solids: 84

Solid

Analyte	Result/Qualifler	Unit	MDL	RL	Difution
delta-BHC	<0.00034	mg/Kg Dry	0.00034	0.0010	1.0
Dieldrin	<0.00049	mg/Kg Dry	0.00049	0.0015	1.0
Endosulfan I	<0.00018	mg/Kg Dry	0.00018	0.00054	1.0
Endosulfan II	<0.00041	mg/Kg Dry	0.00041	0.0012	1.0
Endosulfan sulfate	< 0.00047	mg/Kg Dry	0.00047	0.0014	1.0
Endrin	< 0.00064	mg/Kg Dry	0.00064	0.0019	1.0
Heptachlor	<0.00018	mg/Kg Dry	0.00018	0.00053	1.0
gamma-BHC (Lindane)	<0.00081	mg/Kg Dry	0.00081	0.0024	1.0
Surrogate			Acce	entanan Limita	
DCB Decachlorobiphenyl	60	%	Acce	ptance Limits	
Tetrachloro-m-xylene	63	%		30 - 150 30 - 150	
Method: 8082A		Data Analy			
Prep Method: 3546		Date Analy Date Prepa		2017 1946 2017 0939	
PCB-1016	<0.0062	mg/Kg Dry	0.0062	0.077	4.0
PCB-1221	<0.010	mg/Kg Drγ	0.0002	0.077	1.0
PCB-1232	<0.025	mg/Kg Dry	0.015	0.077	1.0
PCB-1242	<0.015	mg/Kg Dry	0.025	0.077	1.0
PCB-1248	<0.010	mg/Kg Dry	0.010	0.077	1.0
PCB-1254	<0.015	mg/Kg Dry	0.015	0.077	1.0
PCB-1260	<0.012	mg/Kg Dry	0.013		1.0
PCB-1262	<0.013	mg/Kg Dry	0.012	0.077	1.0
PCB-1268	<0.015	mg/Kg Dry	0.015	0.077 0.077	1.0 1.0
Surrogate		,			1.0
2,4,5,6-Tetrachloro-m-xylene	63	%	Acce	ptance Limits	
DCB Decachlorobiphenyl(surr)	61	% %		30 - 150	
,	O1	70		30 - 150	
Method: 8151A		Date Analyz	zed: 02/22/2	017 1327	
Prep Method: 8151A		Date Prepar	red: 02/21/2	017 0848	
Silvex (2,4,5-TP)	<0.095	mg/Kg Dry	0.095	0.36	1.0
Method: 6010C		Date Analyz	red: 02/24/2	017 1700	
Prep Method: 3051A		Date Prepar	red: 02/24/2	017 1130	
Silver	1.9 J	mg/Kg Dry	0.24	2.4	2.0
Arsenic	4.1	mg/Kg Dry	0.47	2.4	2.0
Barium	99	mg/Kg Dry	0.47	47	2.0
Beryllium	0.62 J	mg/Kg Dry	0.47	1.2	2.0
Cadmium	<0.47	mg/Kg Dry	0.47	1.2	2.0
Chromium	29	mg/Kg Dry	0.47	2.4	2.0
Copper Manganese	30	mg/Kg Dry	1.4	5.9	2.0
	380				

Job Number: 420-117020-1

Sdg Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Client Sample ID:

Composite of Samples #1 - 5

Lab Sample ID:

420-117020-6

Date Sampled: 02/16/2017 1640

Date Received: 02/16/2017 1645

Client Matrix:

Solid

Percent Solids: 84

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Nickel	17	mg/Kg Dry	0.71	9.5	2,0
Lead	130	mg/Kg Dry	0.24	5.9	2.0
Selenium	2.4	mg/Kg Dry	1.4	2.4	2.0
Zinc	130	mg/Kg Dry	1.9	4.7	2.0
Method: 7471B Prep Method: 7471B Mercury	0.21	Date Analy Date Prepa mg/Kg Dry	ared: 02/20	0/2017 1600 0/2017 1000	1.0
Mercury	0.21	mg/Kg Dry	0.014		0.040

Job Number: 420-117020-1

Sdg Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Client Sample ID:

Composite of Samples #1 - 5

Lab Sample ID:

420-117020-6

Date Sampled: 02/16/2017 1640

Date Received: 02/16/2017 1645

Client Matrix:

Solid

Percent Solids: 84

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 9012B Prep Method: 9010C Cyanide, Total	<1.2	Date Analy Date Prepa mg/Kg Dry		02/22/2017 1457 02/22/2017 0800 1.2	1.0

### **DATA REPORTING QUALIFIERS**

Client: John Sansevera

Job Number:

Sdg Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Lab Section	Qualifier	Description
GC/MS VOA		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC/MS Semi VOA		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Certification Information

Client: John Sansevera

Job Number:

Sdg Number: 47 Gleneida Ridge Road, Carmel, NY 10512

### The following analytes are Not Part of the ELAP scope of accreditation:

Sulfur, Tungsten, Silicon, Bicarbonate Alkalinity, 7 Day BOD 5210C, 28 Day BOD, Soluble BOD, Carbon Dioxide, Carbonate Alkalinity, CBOD Soluble, Chlorine, Cyanide (WAD), Ferrous Iron, Ferric Iron, Total Nitrogen, Total Organic Nitrogen, Dissolved Oxygen, pH, Phenolphthalein Alkalinity, Solids (Fixed), Solids (Percent), Solids (Percent Moisture), Solids (Percent Volatile), Solids (Volatile Suspended), Temperature, TKN (Soluble), COD (Soluble), Total Inorganic Carbon, Volatile Acids as Acetic Acid, 2-Aminopyridine, 3-Picoline, 1-Methyl-2-pyrrilidinone, Aziridine, Dimethyl sulfoxide, 1-Chlorohexane, Iron Bacteria, Salmonella, & Sulfur Reducing Bacteria.

### The following analytes are Not Part of ELAP Potable Water scope of accreditation:

Cobalt (200.7, 200.8), Tin (200.7), Strontium (200.7), Gold (200.7), Platinum (200.7), Palladium (200.7), Titanium (200.7), Phosphorus (365.3), Nitrate-Nitrite (10-107-4-1C, 353.2), m-Xylene & p-Xylene (502.2, 524), Naphthalene (502.2), o-Xylene (502.2, 524), & Fecal Coliform (9222D).

### The following analytes are Not Part of ELAP Solid and Hazardous Waste scope of accreditation:

Ammonia (SM 4500NH3G), TKN (351.2), Phosphorus (365.3), 1,2-Dichloro-1,1,2-trifluoroethane (8260), & Chlorodifluoromethane (8260).

The following analytes are Not Part of ELAP Non Potable Water scope of accreditation:

Dissolved Organic Carbon (5310C), Mecoprop (8151A), & MCPA (8151A).

### **Definitions and Glossary**

Client: John Sansevera

Job Number:

Sdg Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Abbreviation	These commonly used abbreviations may or may not be present in this report.
%R	Percent Recovery
DL, RA, RE	Indicates a Dilution, Reanalysis or Reextraction.
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit - an estimate of the minimum amount of a substance that an analytical process can reliably detect. A MDL is analyte- and matrix-specific and may be laboratory-dependent.
ND	Not detected at the reporting limit (or MDL if shown).
QC	Quality Control
RL	Reporting Limit - the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.
RPD	Relative Percent Difference - a measure of the relative difference between two points.

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11   1   1   1   1   1   1   1   1	
11-1   16-00.5   15   15   15   15   15   15   15	(a)
11-1   16-00.5   1/2	
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SAMPLE IDENTIFICATION	
SAMPLE IDENTIFICATION  S	v aa
1   8260C   2   3   1   1   8260C   2   3   1   1   8260C   2   3   1   1   8260C   2   3   1   1   8260C   2   3   1   1   8260C   2   3   1   1   8260C   2   3   1   1   8260C   2   3   3   3   3   3   3   3   3   3	REMARKS
1   8260C   2   3   1   1   8260C   3   1	And the second s
S	
	8270D, 8081, 8082, 8151, Metals, Cn, Hex Cr
	Comp. above into one sample except \$260C
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PANY DATE COMPANDATE COMPANDATE COMPANDATE	- WIL
	TIME
	7.0
RECENCE POR LABORATORY BY INCHESIAN DATE TIME GUSTODY GOOD TOWN (ABORATORY REMARKS) ICE (Y Z/N   DM OL2 Revened by YES	By
T. 1/2/1/16/19/1	Muniterial Control

### LOGIN SAMPLE RECEIPT CHECK LIST

Client: John Sansevera

Job Number: 420-117020-1

SDG Number: 47 Gleneida Ridge Road, Carmel, NY 10512

Login Number: 117020

Question	T/F/NA	Comment
Samples were collected by ETL employee as per SOP-SAM-1	NA NA	Odilineiti
The cooler's custody seal, if present, is intact.	NA.	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is recorded.	True	8.1 C
Cooler Temp. is within method specified range.(0-6 C PW, 0-8 C NPW, or BAC <10 C	True	5.7 0
If false, was sample received on ice within 6 hours of collection.	NA	
Based on above criteria cooler temperature is acceptable.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	Smpld into TerraCore Kits at ETL
Sample bottles are completely filled.	True	2/16/17 @ 1645. AE 2/17/16
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	NA	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



### **ANALYTICAL REPORT**

Lab Number:

L1705112

Client:

Envirotest Laboratories Inc.

315 Fullerton Avenue Newburgh, NY 12550

ATTN:

Laura Marciano

Phone:

(845) 562-0890

Project Name:

**WALKIN CLIENT** 

Project Number:

42000038

Report Date:

02/23/17

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

L1705112 Lab Number:

02/23/17

Report Date:

WALKIN CLIENT

42000038

Project Number: Project Name:

Aipha Sample ID

L1705112-01

Client ID

COMPOSITE OF SAMPLES #1-5 (420-117020-6)

Matrix SOIL

Sample Location

Not Specified

Collection Date/Time

02/16/17 16:40

02/17/17

Receive Date

Page 2 of 16

Project Name:

WALKIN CLIENT

**Project Number:** 

42000038

Lab Number:

L1705112

Report Date:

02/23/17

### **Case Narrative**

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

**Project Name:** 

WALKIN CLIENT

**Project Number:** 

42000038

Lab Number:

L1705112

Report Date:

02/23/17

Case Narrative (continued)

### Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Kara Lindquist

Authorized Signature:

Title: Technical Director/Representative

Date: 02/23/17

### INORGANICS & MISCELLANEOUS

**Project Name:** 

WALKIN CLIENT

Project Number: 42000038

Lab Number:

L1705112

Report Date:

02/23/17

### **SAMPLE RESULTS**

Lab ID:

L1705112-01

Client ID:

COMPOSITE OF SAMPLES #1-5 (420

Sample Location: Not Specified

Matrix:

Soil

Date Collected:

02/16/17 16:40

Date Received:

02/17/17

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL.	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	estborough Lab									
Solids, Total	83.6		%	0.100	NA	1	25	02/18/17 16:37	121.2540G	RI
Chromium, Hexavalent	ND		mg/kg	0.96	0.19	1	02/19/17 16:20	02/20/17 23:06	1,7196A	RP

Project Name:

WALKIN CLIENT

Project Number: 42000038

Lab Number:

L1705112

Report Date:

02/23/17

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	estborough Lab for samp	ole(s): 01	Batch:	WG97	9186-1				
Chromium, Hexavalent	ND	mg/kg	0.80	0.16	1	02/19/17 16:20	02/20/17 22:57	1,7196A	RP

# Lab Control Sample Analysis Batch Quality Control

WALKIN CLIENT

42000038

Project Number: Project Name:

L1705112

Lab Number:

02/23/17 Report Date:

> %Recovery Limits Qual General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG979186-2 LCSD %Recovery Qual LCS %Recovery Parameter

Chromium, Hexavalent

86

80-120

8

RPD Limits

Qual

RPD

Page 8 of 16

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## Matrix Spike Analysis Batch Quality Control

WALKIN CLIENT

42000038

Project Number:

Project Name:

L1705112 Lab Number:

02/23/17 Report Date:

RPD Qual Limits General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG979186-4 QC Sample: L1705114-01 Client ID: MS Sample MSD Recovery %Recovery Qual Limits MSD Qual Found MS %Recovery MS Found MS Added Native Sample Parameter

837 0.19J Chromium, Hexavalent

890

75-125

8

ALPHA

WALKIN CLIENT 42000038 Project Number: Project Name:

Lab Duplicate Analysis Batch Quality Control

L1705112 02/23/17 Lab Number: Report Date:

Parameter	Native Sample	Duplicate Sample Units	mple Uni		O S	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s)	mple(s): 01 QC Batch ID: WG979082-1 QC Sample: L1705166-01 Client ID: DUP Sample	WG979082-1	QC Sample:	L1705166-(	7 Client	TID: DUP	Sample
Solids, Total	88.4	88.5	%		0		- 20
General Chemistry - Westborough Lab Associated sample(s):	mple(s): 01 QC Batch ID: WG979186-6 QC Sample: L1705114-01 Client ID: DUP Sample	WG979186-6	QC Sample:	L1705114-(	1 Client	ID: DUP	Sample
Chromium, Hexavalent	0.19J	Q.	mg/kg	<b>5</b> 7	NC		20

Project Name: WALKIN CLIENT

Project Number: 42000038

Lab Number: L1705112

**Report Date:** 02/23/17

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

**Cooler Information Custody Seal** 

Cooler

Α

Absent

Container Information

Temp

Container ID Container Type

Cooler pH deg C Pres Seal

Analysis(\*)

L1705112-01A

Glass 120ml/4oz unpreserved

N/A

3.5

Y Absent

TS(7),HEXCR-7196(30)

WALKIN CLIENT

**Project Number:** 

42000038

Lab Number:

L1705112

Report Date:

02/23/17

### **GLOSSARY**

### Acronyms

EDL

- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

**EPA** 

- Environmental Protection Agency

LCS

- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD

Laboratory Control Sample Duplicate: Refer to LCS.

LFB

- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL.

- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS

- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD

Matrix Spike Sample Duplicate: Refer to MS.

NA

- Not Applicable

NC

- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI

Not Ignitable.

NP

Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL.

- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable

RPD

- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM

- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

STLP TIC

- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

Spectra identified as "Aldol Condensation Product".

В - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers

**WALKIN CLIENT** 

**Project Number:** 

42000038

Lab Number:

L1705112

Report Date:

02/23/17

### Data Qualifiers

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations
  of the analyte.
- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- The lower value for the two columns has been reported due to obvious interference.
- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where
  the identification is based on a mass spectral library search.
- The RPD between the results for the two columns exceeds the method-specified criteria.
- Q -The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R Analytical results are from sample re-analysis.
- RE Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

**WALKIN CLIENT** 

Project Number:

42000038

Lab Number:

L1705112

Report Date:

02/23/17

### **REFERENCES**

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

### **LIMITATION OF LIABILITIES**

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Alpha Analytical, Inc. Facility: Company-wide

- 1 F

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 10

Published Date: 1/16/2017 11:00:05 AM

Page 1 of 1

### Certification Information

### The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-

Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: NPW and SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

EPA 9012B: NPW: Total Cyanide

EPA 9050A: NPW: Specific Conductance

SM3500: NPW. Ferrous Iron

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

SM5310C: <u>DW:</u> Dissolved Organic Carbon

**Mansfield Facility** SM 2540D: TSS EPA 3005A NPW

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

### The following analytes are included in our Massachusetts DEP Scope of Accreditation

### Westborough Facility:

**Drinking Water** 

EPA 300.0: Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Collert-QT,SM9222D.

### Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, SM4500NO3-F, EPA 353.2: Nitrate-N, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E.

### Mansfield Facility:

**Drinking Water** 

EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. EPA 245.1 Hg.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Serial\_No:02231717:18
EnviroTest

Laboratories Inc.

Chain of Custody Record

EnviroTest Laboratories, Inc.

315 Fullerton Avenue

Newburgh, NY 12550 Phone (845) 562-0890 Fax (845) 562-0841

0 - Asnacz P - Na204S C - Na20503 R - Na2052SO3 S - HZSO4 T - TSP Dodecahydrate Special Instructions/Note: Sample Disposel ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mont STL Job#: 420-117020-1 Preservation Codes H - Ascorbic Acid COC No: 420-8789.1 Page: Page 1 of 1 Total Number of containers Aethod of Shipment Disposal By Lab **Analysis Requested** Jooler Temperature(s) \*C and Other Remarks Special Instructions/QC Requirements: Lab PM:
Marciano, Laura L.
E-Mati:
imarciano@envirotestiaboratories.com SUBCONTRACT/ Hex Cr to Alpha × Preservation Code. Solid 3 Sample
Type
(C=comp, Radiological Due Data Requested:

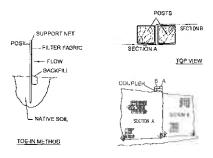
2428/2017 Standard

TAT Requested (days): Sample 16:40 Date: Unknown Sample Date 2/16/17 Project #: 42000038 \$\$CW#: Poison B Composite of Samples #1 - 5 (420-117020-6) Skin Initant Cilent Information (Sub Contract Lab) Possible Hazard Identification

Non-Hazard Flammable Skin Intit

Deliverable Requested: I, III, IV, Other (specify) Sample Identification Cilent ID (Lab ID) Custody Seal No. Empty Kit Relinquished by: Custody Seals Intact. Shipping/Receiving Page 16 14816 No Apha Analytical 8 Walkup Drive, Relinquished by: Westborough Project Name: Walkin Client State, Zip: MA, 01581

### Silt Fence Detail



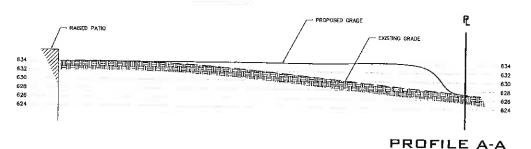
JOINING SECTIONS OF FENCING

### INSTALLATION NOTES

- 1. EXCAVATE A 4 INCH 14 INCH TRENCH ALONG THE LOWER PERIMETER OF
- 2 UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH (NET SIDE AWAY FROM DIRECTION OF FLOW)
- 3. DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS APPROXIMATELY 2 INCHES FROM THE TRENCH BOTTOM.
- 4 LAY THE TOE IN FLAP OF FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH, BACKFILL THE THENCH AND TAMP THE SOIL STEEPER SLOPES REQUIRE AN INTERCEPT TRENCH.
- 5 JOIN SECTIONS AS SHOWN ABOVE

### **General Notes**

- CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL SEDIMENT AND EROSION CONTROL PRACTICES. THE SEDIMENT AND EROSION CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES, AND MAINTAINED UNTIL PERMANENT PROTECTION IS
- 2. TIMELY MAINTENANCE OF SEDIMENT CONTROL STRUCTURES IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL STRUCTURES SHALL BE MAINTAINED IN GOOD WORKING ORDER AT ALL TIMES, THE SEDIMENT LEVEL IN ALL SEDIMENT TRAPS SHALL BE CLOSELY MONITORED AND SEDIMENT LEVEL IN REMOVED PROMPILLY WHEN MAXIMUM LEVELS ARE REACHED OR AS ORDERED BY THE ENGINEER ALL SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED ON A REGULAR BASIS, AND AFTER EACH HEAVY RAIN TO INSURE PROPER OPERATION AS DESIGNED. AN INSPECTION SCHEDULE SHALL BE SET FORTH PRIOR TO THE START OF CONSTRUCTION,
- 3. ALL TOPSOIL NOT TO BE USED FOR FINAL GRADING SHALL BE REMOVED FROM THE SITE IMMEDIATELY AND PLACED IN A STABILIZED STOCKPILE OR FILL AREA. ALL TOPSOIL REQUIRED FOR FINAL GRADING AND STORED ON SITE SHALL BE LIMED, FERTILIZED, TEMPORARILY SEEDED AND MULCHED WITHIN 14
- 4. ANY DISTURGED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 21 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, SHALL IMMEDIATELY RECEIVE TEMPORARY SEEDING MULCH SHALL BE USED IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, DISTURBED AREAS SHALL BE LIMED AND FERTILIZED PRIOR TO TEMPORARY SEEDING.
- ALL DISTURBED AREAS WITHIN 500 FEET OF AN INHABITED DWELLING SHALL BE WEITED AS NECESSARY TO PROVIDE DUST CONTROL
- THE CONTRACTOR SHALL KEEP THE ROADWAYS WITHIN THE PROJECT CLEAR OF SOIL AND DEBRIS AND IS RESPONSIBLE FOR ANY STREET CLEANING NECESSARY DURING THE COURSE OF THE PROJECT.
- SEDIMENT AND EROSION CONTROL STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED BY PERMANENT MEASURES.



SOIL TO BE USED.

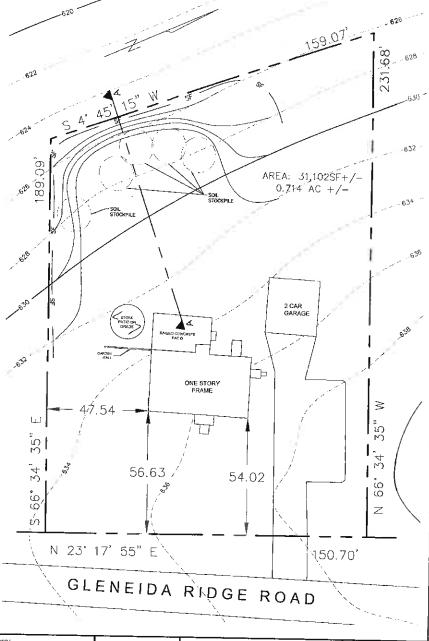
SURVEY INFORMATION OBTAINED FROM SURVEY PERFORMED BY TERRY BERGENDORFF COLLINS, LS DATED 12-19-1989 AND ADJUSTED TO REFLECT CURRENT CONDITIONS TOPOGRAPHIC INFORMATION OBTAINED FROM PUTNAM ePARCEL GIS

SOIL LAYER DETAIL NTS

SCALE: 1"=20'-0"

SITE PLAN

SCALE: 1"=20'-0"



ERNANE Иe ALMEIDA

PROFESSIONAL ENGINEER 25 BLENVUE DRIVE BARMEL, NY 10512 914-459-9741 HERNANE@EMAIL.COA

MR. & MRS. SANSEVERA 47 GLENEIDA RIDGE ROAD CARMEL, NY 10512

PROPOSED REAR YARD GRADING **27 GLENEIDA RIDGE ROAD** CARMEL, NY 10512

DATE: 6/15/2017

REVISIONS DATE NO. DESCRIPTION IT IS A VIDLATION OF THE NEW YORK STATE EDUCATION LAW FOR MAY FOR MAY FERSON, UNE SES ACTION LINEOF THE MEMORITHM OF A CHARGE OF THE MAY FERSON, UNIT SES ACTIONS LINEOF THE ACTION OF A CHARGE OF THE MAY FERSON LINEOF THE MAY FERSON WHAT IS THE MAY FERSON WHAT IS THE MAY FERSON WHAT IS THE MAY FERSON WHAT IS THE MAY FERSON WHAT IS THE MAY FERSON WHAT IS THE MAY FOR THE MAY FERSON HE SOUTHWART WHO RESPONSIBLE TY FOR MAY SURFINE ON RESPONSIBLE TY FOR MAY SURFIN AN TENSOR THE MAY FERSON HE MAY SURFIN MAY SURFIN MAY FERSON HE MAY SURFIN M

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SITE PLAN, SUBDIVISION OR
VARIANCE PLATS, DRAWINGS
OR PLANS, AND ARE HEREBY
REFERENCED FOR
ADD TRONAL APPROVAL DETAILS

PROPOSED REAR YARD GRADING

SITE PLAN SHEET TITLE

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