



Draft Environmental Impact Statement

Goshen Transfer Station Facility 80B Permit

October 2025

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PRESENTED TO

I.W.S. Transfer Systems of N.Y., Inc.

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PRESENTED BY

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COVER SHEET

**I.W.S. Transfer Systems of New York, Inc.
Goshen Transfer Station 80B Solid Waste Management Permit
Draft Environmental Impact Statement (DEIS)**

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SEQR Classification:	Type I
Project Name:	I.W.S. Transfer Systems of N.Y., Inc. Goshen Transfer Station 80B Permit
Project Location:	95 Hartley Road Town of Goshen, Orange County, New York
Tax Map Section, Lot and Block:	Section 12, Block 1, Lot 21.21
Applicant:	I.W.S. Transfer Systems of N.Y., Inc. 89 Black Meadow Road Chester, New York 10918 Phone: 609-472-8730 Email: JAnderson@interstatewaste.com
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DEIS Submission Date(s)	June 16, 2025 – Original Submittal September 19, 2025 – Revision 1 Submittal October 30, 2025 – Revision 2 Submittal
DEIS Acceptance Date:	October 31, 2025
DEIS Public Hearing Date, Time and Location:	December 11, 2025 at 7:00 PM at the Town of Goshen Town Hall located at 41 Webster Avenue, Goshen, New York 10924
DEIS Written Comment Date:	

Copies of this Draft Environmental Impact Statement are available for review at the office of the Lead Agency located at the Goshen Town Hall, 41 Webster Avenue, Goshen, New York 10924. A copy of this document has also been made available on the Internet at the following address: <https://townofgoshen.org>

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1.0 EXECUTIVE SUMMARY

1.1 DESCRIPTION OF PROPOSED ACTION

I.W.S. Transfer Systems of N.Y., Inc. (IWS) is requesting a solid waste management permit under Town Code Chapter 80B for the existing solid waste transfer facility on a parcel located with frontage along Hartley Road within the Town of Goshen. The property, located at 95 Hartley Road, contains 3.0+/- acres, and is known on the Town tax maps as Section 12, Block 1, Lot 21.21. The property is located within the Industrial (I) district, and within the AQ-6 Overlay District.

With the issuance of the 80B Permit from the Town, and the NYCRR Part 360 Solid Waste Permit from the New York State Department of Environmental Conservation (NYSDEC), IWS plans to construct a 9,345 square addition to the existing transfer station building for the processing and transfer of up to 670 tons of municipal solid waste (MSW) and construction and demolition (C&D) debris per day. The addition will enable all operations to be performed completely inside of the building in accordance with current NYSDEC regulations. The upgrades to the Facility will include a water storage tank to provide water for the fire suppression system to be installed in the transfer station building. The addition will be a slab on grade steel structure with green siding to match the existing building. Lighting will be mounted on the building, directed downward to limit offsite impacts. Off hour lighting when the Facility is not operating will be limited.

Pursuant to the rules and regulations of the State Environmental Quality Review Act (SEQRA), Article 8 of the Environmental Conservation Law and its implementing regulations at 6 NYCRR 617, the Town of Goshen Town Board (Town Board), acting as Lead Agency has determined that the Proposed Action has the potential to result in one or more significant environmental impacts. To identify appropriate measures to mitigate potential impacts and allow the public the greatest opportunity to comment on the potential impacts of the Proposed Action, the Town Board adopted a "Positive Declaration" on March 27, 2025, requiring the preparation of a Draft Environmental Impact Statement (DEIS).

The solid waste transfer facility (Facility) has been in operation at this location since 1991. The Facility holds a Solid Waste Management Facility Permit issued by NYSDEC which allows the Facility to accept MSW and C&D at a combined maximum rate of 600 tons per day (TPD). The Permit also allows the Facility to accept single and dual stream recyclables at a maximum rate of 70 TPD.

The Town issued the Facility a Solid Waste Permit in July 2003. In September 2006, the Town issued a Notice of Intent to transfer the Permit to IWS following its acquisition of the Facility from Waste Management. IWS has operated the Facility since 2006 and during this time there have been no issues associated with nuisances, traffic, or emergency services related to the Facility or its operation. Additionally, the Proposed Project will require a special permit for the expansion of a non-conforming use or structure by up to 50% of this area provided all other requirements can be met and such expansion does not reduce any nonconforming setback by more than 20% as specified in §97-32B of the Town Code. The Proposed Project represents a proposed expansion of 28% increase in area which complies with the Town Code.

The Proposed Project has received a variance for the proposed side yard setback of 17.4 feet from the existing 18.5 feet. This variance was required due to the fact that the existing Transfer Station Building and Proposed Addition are not parallel to the property line. The proposed 65,000-gallon water storage tank has also received a variance since it will be erected within the 50-foot side yard setback.

Water is supplied to the office building via an on-site private well. The proposed water storage tank will be filled initially by an outside water service company. Sanitary sewage from the office building is handled by a holding tank and removed by a licensed septage hauler for treatment at a wastewater treatment plant as needed.

1.2 PROJECT PURPOSE, NEED AND PUBLIC BENEFITS

Transfer facilities (TF) are solid waste management facilities that receive waste for consolidation and subsequent transfer to another facility for processing, treatment, transfer, or disposal. Often, residents or local private waste collectors will bring waste to transfer facilities where the waste will be consolidated in larger vehicles and transported to disposal facilities such as landfills.

Transfer facility operations in New York State are regulated by 6 NYCRR Part 360 and Subpart 362-3 in one of three ways: exempt, registered, or permitted. Regulation of transfer facilities depends on the type of waste received, the quantity of waste received and stored, the type of facility owner, and the type of operation.

The NYSDEC regulations require solid waste facilities to have a program for detecting and preventing the receipt of hazardous waste including random inspections of incoming loads, inspections of suspicious load and establishment of procedures to notify the proper authorities if hazardous waste is discovered in a load and procedures for proper management of discovered hazardous waste. The Facility has a Facility Manual that was prepared in accordance with the NYSDEC regulations which cover the following topics:

- Waste Control Plan
- Operations and Maintenance Plan, including a water protection plan, dust, vector, and odor control, and noise monitoring
- Personnel Training Plan
- Emergency Response Plan
- Closure Plan

1.2.1 Summary of Growth Inducing Impacts

The Proposed Action involves obtaining an 80B Solid Waste Management Permit for an existing Transfer Station. The Applicant is requesting a permit for 670 tons per day of MSW and C&D Debris. The Proposed Action does not involve construction of residential structures (i.e. houses, apartments or condominiums, etc.) and will not result in an increase in employees needed to operate the Facility. As such, there will be no growth inducing impacts associated with this Proposed Action.

1.3 PERMITS AND APPROVALS

The following permits and approvals have been identified as potentially required for this Proposed Action.

1.3.1 Involved Agencies

Town of Goshen, New York

- Town Board.
 - Chapter Town Code Chapter 80B Solid Waste Management Facility Operating Permit and Construction Permit
- Town Planning Board.
 - Special Permit and Major Site Plan Approval. Conditional approval was issued by the Planning Board on February 29, 2024.
- Town Zoning Board of Appeals.
 - The following Area Variances were granted by the Zoning Board of Appeals:

- September 19, 2023 - Side yard setback of 17.4 feet for the transfer building addition – required setback 50 feet.
- February 6, 2024 - Side yard setback of 35.3 feet for the fire suppression system water storage tank – required setback 50 feet.
- Town Highway Department.
 - Driveway permit for the widening of the existing Facility entrance on Hartley Road.

State of New York

- New York State Department of Environmental Conservation.
 - Part 360 Series Solid Waste Permit Modification/Renewal.
 - SPDES General Permit for Stormwater Discharges from Construction Activity.
 - SPDES Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity.

1.3.2 Interested Agencies

- NYS Department of Parks, Recreation & Historic Preservation.
 - Compliance with State Historic Quality Review Act.

2.0 DESCRIPTION OF PROPOSED ACTION

The proposed action is the issuance of a solid waste management permit under Town Code Chapter 80B to continue operating and make improvements to the existing solid waste transfer station facility on Hartley Road within the Town of Goshen.

2.1 LOCATION AND SITE DESCRIPTION

The Facility is located at 95 Hartley Road in Goshen, New York. The Facility is located approximately 2,375 feet north of NYS Route 17M and approximately 3,220 feet south of Cheechunk Road. The property is a 3-acre parcel located to the west of Hartley Road in the Industrial Zoning District and described as Section 12, Block 1, Lot 21.21 in the Town of Goshen. Operation of a solid waste management Facility requires a special use permit from the Town of Goshen. The site location is shown on Sheet No. 1, "Regional Map" and Sheet No. 2, "Vicinity Map" of the Engineering Drawings and on Figure 1, "Site Location Map". Additionally, IWS leases a 1,090 square foot portion of Section 12, Block 1, Lot 21.22 on the western side of the Facility for the parking from Al Turi Landfill, Inc. A copy of the lease agreement is included in Appendix B-1. There are no easements, rights-of-way, or legal site use restrictions on this parcel. The property is located within the Industrial (I) zoning district, and within the AQ-6 Overlay District.

The Facility is bounded to the north, south, and west by other tax parcels zoned I. A portion of the Amy's Kitchen production facility is currently being constructed directly to the north of the Facility and to the west on the opposite side of the Wallkill River. The closed Al Turi Landfill is located to the south and west of the Facility. Properties located across Harley Road to the east are zoned Commercial/Office Mixed-Use (CO). IWS owns the parcel directly across the street to the east (SBL 12-1-17.32) which is used for vehicle and container storage. This parcel is not part of the solid waste management Facility. On Time Disposal and HIG Fabrications are also located across Hartley Road to the east of the Facility. On Time Disposal provides roll-off container rentals to customers. HIG fabricates automobile chassis and parts for race cars.

As per the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Panel 269 of 630 (No. 36071C0269E), last revised on August 3, 2009, the Facility is located in Zone X, areas determined to be outside the 0.2% annual chance floodplain. Sheet No. 4 of the Engineering Drawings (Zoning & Land Use Map), the Facility property is well outside the 100-year and 500-year flood zones. As indicated on Sheet 2 of the Engineering Drawings, the Facility is not located in or adjacent to a State or Federally regulated wetland or wetland check zone. Flood hazard areas and regulated wetlands in the vicinity of the Facility are depicted on the Engineering Drawings. There are no surface water bodies on or adjacent to the project property. The nearest surface water body is the Wallkill River located approximately 860 feet to the west. Refer to Sheet No. 2, Vicinity Map of the Engineering Drawings.

With respect to potential visual quality impacts, the proposed Facility modifications are situated primarily behind the Existing Maintenance Shop/Office Building. The existing trees and vegetation along the right of way will not be disturbed. Although the width of the existing entrance to the Facility will be widened from an approximately 48-foot wide driveway entrance to 65 feet wide, there are no trees in the area where the entrance is to be expanded.

There are no current or anticipated potential visual impacts the Facility has or will have in the future as a result of the Facility addition. The proposed addition and proposed water storage tank will be less than 35 feet high which meets the zoning requirements of a maximum height of 45 feet for the Industrial District.

2.2 PROJECT DESCRIPTION

The proposed action is the issuance of a solid waste management permit under Town Code Chapter 80B to continue operating and make improvements to the existing solid waste transfer station facility on Hartley Road within the

Town of Goshen. With the issuance of the 80B Permit from the Town, and the NYCRR Part 360 Solid Waste Management Facility (SWMF) Permit from the New York State Department of Environmental Conservation (NYSDEC) the Applicant has proposed to construct a 9,345 square foot addition to the existing transfer station building for the processing of 670 tons of municipal solid waste and construction and demolition debris. The proposed addition will be a slab on grade pre-engineered metal structure which will match the color of the existing building. The Proposed Action will not increase stormwater runoff, because the area where the addition is to be constructed is currently paved. Lighting will be mounted on the building and directed downward resulting in no offsite lighting impacts. Lighting for operations will only be on during operational hours. The addition will not include an increase in sanitary facilities as restrooms are located in the existing Maintenance Shop/Office Building. There are currently 11 employees working at the Facility which will not increase as a result of the Proposed Action. As such there will be no additional traffic, water usage, or increased sewage disposal needs. No changes to the existing Maintenance Shop/Office Building are proposed. Equipment maintenance will continue to be performed in the Maintenance Shop and mobile equipment will continue to be fueled using the existing double-walled above ground off-road diesel fuel tanks which are registered with the NYSDEC. Tipping vehicles and transfer trailers are not fueled at the Facility. There have been no spills associated with fueling the mobile equipment at the Facility.

There are four above ground petroleum storage tanks located inside the Maintenance Shop including a 500-gallon double-walled above ground tank containing used oil for heating; a 370-gallon tank containing waste oil; a 275-gallon tank containing motor oil and a 275-gallon tank containing hydraulic oil. There will be no new, additional on-site fuel storage tanks installed at the Facility.

In the event of a spill, the employees will apply the appropriate spill control products and contact the Emergency Coordinator to determine the extent and nature of the spill and direct further remedial efforts as appropriate. Spill control products are maintained next to the aboveground fuel tanks. A supply of adsorbent material is also stored in the Maintenance Shop for response to an accidental spill or leak from a piece of mobile equipment (such as from a hydraulic hose) or during fueling or to collect liquids discharged during a firefighting event. The procedure for control is to deploy spill control products over the spill area, contain the resultant product and spilled material mixture, and dispose of the mixture with other landfill-bound waste.

There is sufficient space on the Site where snow can be placed. If there is a significant snow event or several days of snow, snow can be moved to the lot across Hartley Road that IWS owns.

The Proposed Facility Upgrade Project will be constructed as a single phased project that will take approximately 9 to 12 months to complete. The area of disturbance will be limited to the area where the proposed addition will be constructed.

The Facility Upgrade Project received variances for the side yard setback. The side yard requirement is 50 feet in the Industrial Zone, and the existing transfer building is 18.5 feet from the side property boundary at its closest point as a preexisting condition. Because the existing building is not parallel to the property line the proposed addition will be 17.4 feet from the property line at its closest point. The Town of Goshen ZBA granted the side yard variance on September 19, 2023. In addition, the water storage tank, which will be constructed for fire suppression will be 35.3 feet from the property line. A variance for the water storage tank proximity to the property line was granted by the ZBA on February 6, 2024. The proposed Facility upgrade received conditional Site Plan Approval from the Town of Goshen Planning Board on February 29, 2024. Refer to Appendix F for a copy of the Resolution of Conditional Approval and the Conditionally Approved Site Plan Drawings.

The Facility currently holds SWMF Permit #3-3330-00094/00001 that was issued by the NYSDEC on September 26, 2019. While the current permit expiration date was September 25, 2024, the application for permit renewal and modification, including the construction of the proposed addition and the conversion of the currently permitted recyclables daily tonnage to solid waste, was submitted to the NYSDEC on March 27, 2024. The application was deemed timely and sufficient by the NYSDEC and therefore the Facility's current SWF Permit is State Administrative Review Act (SAPA) extended.

The NYSDEC permits the Facility to receive waste during the following periods:

- Monday through Friday: 7:00 A.M. to 3:30 P.M.
- Saturday: 7:00 A.M. to 12:00 P.M. (Noon)

The NYSDEC permits the Facility to process waste during the following periods:

- Monday through Friday: 7:00 A.M. to 6:00 P.M.
- Saturday: 7:00 A.M. to 12:00 P.M. (Noon)

The Facility may process waste from 7:00 A.M. to 7:00 P.M. for the two (2) operating days immediately after Memorial Day, Independence Day, and Labor Day.

Material receipt, delivery, or other operations are prohibited on all Sundays.

The Facility may not operate on the following New York State Holidays: New Year's Day, Memorial Day, Independence Day (4th of July), Labor Day, Thanksgiving, and Christmas, unless otherwise authorized by the NYSDEC.

Fully loaded trailers or rail canisters may be picked up at the Facility for shipment off-site before and after the operational hours listed above, provided no other solid waste handling activity takes place at the Facility and that a log of such activities is maintained and submitted with the annual report. The trailers are weighed and the tonnage is included in the daily tonnage limits and recordkeeping requirements for the Facility.

The current NYSDEC SWMF Permit allows the Facility to accept C&D debris and MSW at a maximum combined rate of 600 TPD. The Facility is also permitted to accept up to 70 TPD of Source-Separated Recyclables (SSR).

Daily activities include the receipt, initial inspection, and weighing of Tipping Vehicles; tipping of solid waste onto the Tipping Floor; inspection of tipped materials; transfer of materials to Transfer Trailers/Rail Containers, and daily transportation and disposal of residual wastes to various disposal facilities. The degree of recycling and separation is variable as it is dependent on waste composition and the effectiveness of manual removal.

The Facility is not authorized to accept tires in bulk but may accept tires which are incidental to incoming loads of MSW. The tires are separated from the MSW and stored separately in enclosed containers prior to shipment to a facility authorized to accept bulk tires. Hazardous waste, liquid waste, regulated medical waste, and other such materials are not accepted at the Facility.

If unauthorized material is detected by the Scale Master during the initial screening, the Tipping Vehicle carrying the load is denied entry to the Facility. Once tipped within the Building, a Laborer/Sorter observes each load as it is deposited on the Tipping Floor. The sight and/or smell of unauthorized waste are usually the most apparent characteristics in the identification process. Unauthorized materials detected on the Tipping Floor will be temporarily segregated before being transported to the Initial Staging Area for Unauthorized Waste. If possible, the Tipping Vehicle of origin will be held on site until vehicle identification information can be recorded. If a Tipping Vehicle that tipped unauthorized material were to leave the Facility prior to identification attempts will be made to identify the origin of the material using security cameras recordings.

If the unauthorized waste is suspected to be hazardous, it is placed in a lined, sealed container and is secured in the Initial Staging Area for Unauthorized Waste for pick-up by an authorized licensed hauler who shall transport the unauthorized waste to a Facility approved to receive it for treatment, disposal, or transfer.

If unauthorized waste is liquid, hazardous, friable asbestos, or otherwise cannot be safely secured in the unauthorized waste storage area, such unauthorized waste must be secured on the tipping floor.

Warnings and financial penalties will be given to customers found to deliver unauthorized wastes with a progressive option to disallow Facility use should delivery of unauthorized material continue. Unauthorized material discovery within the Facility will be removed within 7 days of receipt.

If the unauthorized waste is not removed within 7 days of discovery, the Facility shall notify the NYSDEC. Reporting of unauthorized waste receipt is also made to the NYSDEC within the annual monitoring report and records of each incident are maintained on site.

IWS proposes to construct a 9,345 square foot Transfer Station Building (proposed TS Building Addition) to the existing Transfer Station Building (existing TS Building), along with an approximately 430 square foot Mechanical and Electrical Room for housing the fire water pump and electrical equipment for the upgraded TS Building. The proposed TS Building Addition will include a new Loadout Tunnel that will be equipped with a Loadout Tunnel Scale and Tarping Rack. The existing tarping rack located adjacent to the Maintenance Shop/Office Building will be removed and the function replaced by facilities located inside the Loadout Tunnel. The addition will enable tipping vehicles to be fully inside the Transfer Building when tipping resulting in a decrease in noise and odors, though the existing Facility has no records of noise or odor complaints.

The current curb cut at the Facility entrance on Hartley Road will be extended from approximately 48-feet wide to an entrance 65 feet wide for easier access of trucks in and out of the Facility. The area along Hartley Road and the surrounding area of the property is covered by existing grass, trees and vegetation, as such additional landscaping is not necessary for this Proposed Action. There are 7 parking spaces for employees and visitors located in front of the existing Maintenance Shop/Office Building, 2 parking spaces in the southern portion of the property along Hartley Road and 4 proposed parking spaces along the southern side of the existing Maintenance Shop/Office Building. The location of these parking spaces enables pedestrians to safely access the Maintenance Shop/Office Building and avoid truck traffic accessing the Transfer Station Building. There are no existing or proposed retaining walls at the site. Emergency Service Organization (ESO) vehicles enter the Facility through the main entrance of the site and can easily access the existing Maintenance Shop/Office Building and Transfer Station Building.

Leachate from the proposed addition will be directed into a new double walled underground leachate storage tank. Piping to the tank will also be double walled. Leachate is currently and will continue to be removed in the future as needed by a licensed hauler to a wastewater treatment plant for treatment and disposal. The volume of leachate generated by the upgraded facility is expected to be reduced as less stormwater will be introduced into the leachate tanks with the removal of one of the trailer parking area pads. Water for the fire suppression system in the existing and proposed TS Building will be provided via a new 65,000-gallon Water Storage and Supply Tank (above ground).

IWS has submitted a permit modification to NYSDEC for the construction of the proposed addition and requesting that the 70 TPD of source-separated recyclables it is currently permitted to accept be converted to MSW and C&D debris which will allow the Facility to accept up to 670 TPD of MSW and C&D debris. Recyclable materials are now directed to the Millennium MRF in Airmont, New York. This Application has been prepared to reflect the proposed total capacity of 670 TPD of MSW and C&D debris. No increase in truck traffic to and from the Facility will result from the proposed action as the Facility has been handling 670 tons of material per day since 2006.

The upgraded Facility, as described above and depicted on the Engineering Drawings, has received local approval from the Town of Goshen Planning Board, dependent on approval from NYSDEC. Partial comments from the NYSDEC were provided by in a letter dated May 19, 2025, from Katherine Coffin, Deputy Regional Permit Administration. The partial comments indicated that project materials have been circulated to the Division of Materials Management and that full technical comments are not available and will be provided under separate cover at a later date. IWS is not aware of the timeframe for receipt of these technical comments.

2.3 PROJECT NEED AND BENEFIT

The IWS Facility serves the residents of the Town of Goshen and Orange County as a whole. The Facility has been accepting and processing for transfer up to 600 TPD of MSW and C&D and, until recently, 70 TPD of recyclable materials since 2006. The Facility accepts materials from smaller collection vehicles that pick up solid waste generated at residential and commercial properties which are unloaded or tipped inside the TS Building on the concrete Tipping Floor. The unloaded material is then screened and large recyclable material is removed. The

waste is manipulated and compacted inside the TS Building and then loaded into transfer trailers or rail containers for transportation out of Orange County for disposal. Without the existing IWS Facility, the solid waste currently handled by the Facility would be diverted to the Orange County Transfer Station #1 located in Goshen.

The Facility no longer handles recyclable materials which are now transported to the IWS Material Recovery Facility (MRF) in North Arlington, New Jersey for processing. IWS is committed to divert materials from thermal treatment and disposal by culling recyclables from tipped C&D debris. The NYSDEC is committed to sustain and manage resources, the environment, and economic competitiveness by placing emphasis on waste reduction and recycling, while providing an equitable waste management infrastructure where the needs of its residents, businesses and industry are met. The Goshen Transfer Station Facility meets these commitments.

The objectives of the Proposed Action are to continue providing solid waste services to the Orange County it serves by obtaining the required Permit from the Town Board and to meet the new requirements of the NYSDEC that all solid waste tipping operations occur completely inside of the Transfer Station Building. In addition to enabling the Facility to meet NYSDEC requirements, an objective of the proposed TS Building Addition is to reduce the potential for blowing litter with all tipping operations completely inside the Building and the use of the loadout tunnel scale and tarping rack, and to reduce potential noise and odors associated with the operations.

The Applicant is requesting a solid waste management permit under Town Code Chapter 80B, Solid Waste Management, for the Goshen Transfer Station. Local Law No. 1 of 2024, amends Chapter 80B, Solid Waste Management and Chapter 97, Zoning, states the Town at its discretion may require solid waste management facility permits for construction and operation. Furthermore, Local Law No. 10 of 2024 amends Chapter 80B, which provides no restrictions to the acreage requirements for existing solid waste management facilities. As such, the Proposed Action meets the requirements and intent of the Updated Comprehensive Plan for the Town of Goshen, Goshen, New York, dated January 2009, Revised 2017.

Social considerations for the Proposed Action include the continued ability to provide a beneficial and necessary service to the community. Solid waste collected from residences and commercial establishments around the County need to be transferred to larger vehicles in order for the waste materials to be transported out of Orange County for disposal. In areas like Orange County which do not have local disposal facilities, transfer stations are needed. Economic considerations include keeping solid waste costs at affordable rates, as increased travel distances for collection vehicles to disposal facilities would result in higher disposal costs. Additionally, IWS has made an agreement with the Town of Goshen to pay the Town \$0.10 per ton of waste handled at the Facility which will amount to more than \$20,000 per year, in addition to the taxes IWS pays to the Town of Goshen, the Goshen, the Goshen Fire District, the Goshen School District, and Orange County. In the last year property taxes paid by IWS on the Hartley Road property totaled \$51,332, including \$5,783 to the Town of Goshen, \$1,754 to the Goshen Fire District, \$38,516 to the Goshen School District, and \$5,279 to Orange County. With the proposed upgrades to the Facility constructed, it is likely the assessment on the property would increase as would the tax payments. If a permit is not granted and the Facility operations ceased, payments made would be reduced significantly.

While the Town of Goshen Code does not allow the siting and construction of new solid waste management facilities, the proposed action is an addition to an existing solid waste management facility that will improve its operation. The parcel, at 3 acres, is less than required 5 acres in the I zoning district, however it is a pre-existing non-conforming lot. Additionally, the existing structure and proposed addition are closer to the side yard lot line than allowed. The existing Transfer Building is a pre-existing non-conforming condition and the ZBA has granted a variance for the location of the Transfer Building Addition. Given that the Facility is an existing solid waste management facility, its location adjacent to a closed landfill, and the project's approval by the Planning Board and the ZBA, it is believed that the action will have no impact on local land use in the area.

On February 29, 2024, the Town of Goshen Planning Board adopted a Resolution of Conditional Approval of a Special Permit and Major Site Plan, which determined that in accordance with §97-73(8), related to special permit findings, the Planning Board finds the application will not result in excessive off-premises noise, dust, odors, solid waste, or glare and will not create any public or private nuisances. The proper provisions have been

made for stormwater management and other related needed improvements and utilities. The Planning Board found that the proper provisions have been made for potable water supply or wastewater collection and treatment. The Town of Goshen Highway Department confirmed that the streets accessing the property are of such width, grade, condition and location as to accommodate the present and anticipated future vehicular traffic and to facilitate fire, police, and other emergency protection. No new roadways are proposed. Subject to the provisions and conditions of this approval, the project will not cause significant traffic congestion, impair pedestrian safety, or overload existing roads. Furthermore, the Planning Board determined that this project would not materially degrade any watercourse or other natural resource or ecosystem or degrade the water quality or quantity of an aquifer. This project is suitable for the property on which it is proposed and is subject to conditions on operation and design. It avoids strip commercial development, does not adversely affect the availability of affordable housing in the Town, and complies with the site plan criteria in §97-75(0). This site is laid out in a manner that reflects and complements the natural, historic, and scenic resources of the Town.

On October 7, 2022, the Town of Goshen Building Inspector determined that the use of the facility as a solid waste management facility is a legally pre-existing nonconforming use, and in accordance with Town Code §97-32(B), the Planning Board could issue a special permit allowing expansion of a nonconforming use or structure by up to 50% of its area at the time of the adoption of the Zoning Code, and that such expansion does not reduce any nonconforming setback by more than 20%. Furthermore, the following were determined to be legally pre-existing, nonconforming conditions permitted to remain:

- Minimum Lot Area Required is 5 Acres, and 3 Acres is provided.
- Minimum Front Yard Setback required is 100 feet and 87.9 feet is provided.
- Minimum Rear Yard Setback required is 75 feet and 51.6 feet is provided.
- Maximum Impervious Surface Coverage allowed is 70% and 79.4% is provided.

The Planning Board has taken into consideration the decision of the Town Zoning Board of Appeals, dated September 19, 2023, which granted an area variance relative to the side yard setback for the proposed addition, permitting 17.4 feet, where 50 feet was required.

The Planning Board has taken into consideration the decision of the Town Zoning Board of Appeals, dated February 6, 2024, which granted an area variance relative to the side yard setback for the 50,000-gallon water storage tank, permitting 35.3 feet, where 50 feet was required.

Town Code §97-14(D)(6) requires that the minimum distance between curb cuts be at least 600 feet, "unless the configuration of a parcel in relation to adjoining parcels makes this requirement impossible to satisfy." Town Code §97-14(0)(6). In connection with this project, the Building Inspector has made the determination that the configuration of the parcels adjacent to and across from this property makes this requirement impossible to satisfy. This is a legally pre-existing nonconforming condition, and no variance from the Zoning Board of Appeals is necessary.

The Town Board adopted Local Law No. 10 of 2024 that modified Chapter 80B-9(B) of the Town Code to allow for existing solid waste facilities to be located on parcels smaller than 5 acres.

3.0 EXISTING CONDITIONS, POTENTIAL IMPACTS, AND PROPOSED MITIGATION MEASURES

This Section of the DEIS provides a description of the existing environmental conditions on the Site and off-Site areas where there may be significant adverse impacts caused by the Proposed Project as identified in the May 8, 2025, Scoping Document adopted by the Goshen Town Board and provide an identification and evaluation of the potential impacts of the Proposed Action and provide a description of any proposed mitigation measures.

3.1 LAND: GEOLOGY, SOILS AND TOPOGRAPHY

This Section documents the existing geology, soils, and topography at the IWS Facility Site and evaluates potential impacts to these resources from the Proposed Action.

3.1.1 Existing Conditions

The Site was developed in the 1980's and the majority of the parcel is either paved or is occupied by an existing structure. The United States Department of Agriculture (USDA) Soil Conservation Service (SCS) Soil Survey for Orange County was reviewed and provided surficial soil conditions for the Site. The SCS identified the presence of the following four (4) soil types within the Site and surrounding area:

- Allard silt loam (AdA), 0 to 3 percent slopes
- Hoosic gravelly sandy loam (HoC), 8 to 15 percent slopes
- Mardin gravelly silt loam (MdC), 8 to 15 percent slopes
- Riverhead sandy loam (RhC), 8 to 15 percent slopes

Figure 2 shows the soils map for the property and the adjacent area. These soils are included on Sheet No. 9, Soil Erosion and Sediment Control Plan of the Site Plan Application Drawings. Information on the soils provided by the SCS is provided in the table below.

MAP SYMBOL/ DESCRIPTION	HYDROLOGIC SOIL GROUP	SOIL PROFILE		K VALUE	DEPTH TO WATER TABLE (FEET)	DEPTH TO BEDROCK (IN)	PERCENT OF PROJECT SITE (%)
		DEPTH (IN)	USDA TEXTURE				
Allard silt loam (AdA)	B	0-9	Silt loam	0.43	>6.0	>60	40
		9-35	Silt loam, very fine sandy loam	0.43			
		35-60	Stratified sand to very gravelly loam sand.	0.37			
Hoosic gravelly sandy loam (HoC)	A	0-6	Gravelly sandy loam	0.17	>6.0	>60	25
		6-22	Gravelly sandy loam, very gravelly sandy loam, gravelly loam	0.17			
		22-60	Very gravelly sand, very gravelly loamy sand	0.17			
	C	0-8	Gravelly silt loam	0.24	1.5-2.0	>60	27

MAP SYMBOL/ DESCRIPTION	HYDROLOGIC SOIL GROUP	SOIL PROFILE		K VALUE	DEPTH TO WATER TABLE (FEET)	DEPTH TO BEDROCK (IN)	PERCENT OF PROJECT SITE (%)
		DEPTH (IN)	USDA TEXTURE				
Mardin gravelly silt loam (MdC)		8-20	Channery silt loam, loam, gravelly loam	0.28			
		20-60	Channery loam, channery silt loam, very channery loam	0.28			
Riverhead sandy loam (RhC)	B	0-9	Sandy loam	0.28	>6.0	>60	8
		9-26	Sandy loam, fine sandy loam, gravelly sandy loam	0.24			
		26-30	Loamy sand, gravelly loamy sand, fine sandy loam	0.17			
		30-60	Stratified sand and gravel	0.147			

The SCS defines the hydrologic soil groups as follows:

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

Type B Soils - Soils having a moderate infiltration rate when thoroughly wet and consist mainly of moderately deep to deep, moderately well to well drained soils with moderately fine to moderately coarse textures. These soils have a moderate rate of water transmission.

Type C Soils - Soils having a low infiltration rate when thoroughly wet. These soils consist chiefly of soils with a layer that impedes downward movement of water and soils with moderately fine-to-fine texture. These soils have a low rate of water transmission.

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

The central portion of Orange County is underlain by the Trenton Group shales. The Facility Site and surrounding area are underlain by the Normanskill Shale Formation bedrock unit of Middle Ordovician Age. A geotechnical investigation was performed in August 2025 at the Facility, where soil borings were installed to 20 feet below ground surface and bedrock was not encountered. Bedrock is anticipated to be greater than 75 feet below ground surface (bgs). Ten soil borings completed as part of the adjacent Amy's Kitchen project did not encounter bedrock in the area. Three of the soil borings installed approximately 1,000 feet south of the IWS Facility were advanced to depths of 32 to 52 feet bgs did not encounter bedrock. The soil boring logs described that material encountered as sand and gravels with some silt. Given the ground surface elevation on the Amy's Kitchen parcel of approximately 380 feet and the elevation at the IWS Facility of 410 feet, bedrock is expected to be greater than 75 feet bgs.

The bedrock strata in the area have been deformed into folds trending northeast-southwest. The long axes of the folds in the rock layers also trend northeast-southwest. Different rates of erosion of the tilted hard and soft rock result in the sequence of narrow ridges and valleys typical of the Valley and Ridge province and including the Wallkill Valley (Frimpter, 1972). The deformation also resulted in the formation of joints and fractures in the bedrock. An

evaluation of bedrock in the area performed for the Al Turi Landfill (Final Hydrogeologic Investigation Report Hudson Valley Landfill Expansion Area, Emcon/OWT, March 2001) examined the orientation of fractures and joints at bedrock outcrops in the surrounding area. Most of the joints (85%) were found to trend in a northeast-southwest direction, with half of them occurring at a 40° to 60° orientation. Most of the remaining joints were found to be generally orientated in a northeast-southwest direction. Approximately 15 percent of the joints show a northwest-southwest orientation. A bedrock geologic map is included as Figure 3.

The Facility's operational area is flat with 83% of the Site having slopes of 0-10% with elevations between 407 and 412 feet msl. The slopes to the south and north cover the remaining portions of the parcel with 1% having slopes between 15-25% and 16% of the parcel having slopes greater than 25%. In August 2025, three soil borings were advanced using a Geoprobe® direct push type drilling rig within the footprint of the proposed addition to the existing Transfer Building. The soil lithology ranged from fill material to native sand in all locations. The soil borings were advanced to depths of 15 to 20 feet bgs. The fill material encountered at all three locations was made up of medium to coarse gravel and sand. Native sand was encountered approximately 13 to 14 feet bgs. Groundwater was not encountered in any of the soil borings. A summary memorandum of this soil investigation is included in Appendix B-2 which includes a figure showing the locations of the soil borings, soil boring logs and photographs.

3.1.2 Potential Impacts

Erosion and sediment control have been identified as potential impacts associated with the proposed project. The construction associated with the proposed upgrades approved by the Planning Board with the issuance of a Chapter 80B Permit from the Town Board will impact areas of the Site which are presently paved and or have structures on them and are in areas of the Site which have slopes of less than 10%. The only vegetation planned to be removed is associated with the increased curb cut which is being proposed to make it easier for tractor trailers to turn right onto Hartley Road. This will result in the removal of approximately 283 square feet of existing vegetation. Additional vegetation disturbance is likely during construction along the south side of the Addition to the existing Transfer Building during construction. This area will be restored to existing conditions at the completion of construction. As such, very little natural or undisturbed soil will be disturbed by the project. Based on nearby soil borings, bedrock in the area is greater than 75 feet bgs and will not be encountered during construction and no blasting or bedrock removal will be required. As such there is no risk of impact to bedrock from the project.

The plans call for the disturbance of approximately 800 tons of soil associated with the proposed construction covering an area of less than 1-acre. Most of the excavated material will be reused onsite, however it is possible there will be some excess soil that will be removed from the Site. Given the amount of soil to be disturbed during construction, the amount of excess soil is expected to be less than 200 tons of soil. Locations for the excess soil will be identified prior to construction and arrangements made for the transportation of the excess soil. It is estimated that 14 tons of soil can be loaded on one dump truck, as such it would take approximately 15 dump trucks to transport the 200 tons of excess soil away from the site. Based upon the August 2025 geotechnical investigation, the excess soil will be suitable for fill on other sites.

While the proposed construction will occur in areas with little or no slope, all appropriate erosion control measures will be followed in accordance with the NYSDEC's "New York Standards and Specifications for Erosion and Sedimentation Control" and the Preliminary Stormwater Pollution Prevention Plan (SWPPP), minimizing risks for erosion issues during construction. Refer to Appendix C for a copy of the Preliminary SWPPP.

Concerns related to the presence of contaminated soil has been raised due to the proximity of the Site to the adjacent Al Turi Landfill. The Landfill has been investigated under the direction and supervision of NYSDEC and the limits of waste have been defined with the toe of the landfill slope and the nearest waste located more than 250 feet to the south of the Transfer Station parcel. Based on groundwater flow direction from the Landfill to the southwest, the depth to groundwater of more than 20 feet bgs on the project parcel, and the change in topography between the Landfill and the Facility, the potential for waste or contaminated soil at the Facility is low. As described in Section 3.2.1, a soil investigation completed within the footprint of the proposed addition to the Transfer Building

confirmed that the fill material underlying the area consists of 13 to 14 feet of gravel with some sand, underlain by sand. Groundwater was not encountered at any of the boring locations. Soils were screened in the field for odors and visual indications of contamination and with a photo-ionization detector (PID) to screen for elevated volatile organic compounds (VOCs). No visual staining or odors were noted in any of the soils and no VOCs were detected using the PID. Samples were collected from each boring location from the fill material and the underlying native soils. The samples were transported under chain-of-custody to a New York State certified laboratory and analyzed for VOCs, semi-volatile organic compounds (SVOCs), pesticides, Polychlorinated biphenyls (PCBs), and Resource Conservation and Recovery Act (RCRA) metals. Analytical results reported no exceedances of any of the New York State CP-51 Soil Cleanup Objectives (SCOs). A summary table of the analytical results and the SCOs is included in Appendix B-3. The laboratory report is also included in Appendix B-3.

The geotechnical study completed on the adjacent property to the south for the Amy's Kitchen project included of 10 soil borings which extended to depths of 30 to 52 feet bgs (Amy's Kitchen – Ver Hage Site Preliminary Geotechnical Engineering Report, AKRF Engineering, P.C., June 2015). Two of the borings completed closest to the IWS Facility, B-3 and B-5, were advanced to depths of 52 feet bgs. Bedrock was not encountered at any of the soil boring locations on the Amy's Kitchen parcel. With the IWS Facility being located at an elevation approximately 30 feet higher than the Amy's Kitchen borings, bedrock is expected to be greater than 75 feet bgs. Based on the results of the August 2025 soil investigation of the Facility, neither groundwater nor bedrock will be encountered during construction of the proposed Transfer Building addition. Therefore, blasting is not anticipated to be required during construction and there will be no impact on geological resources.

3.1.3 Mitigation Measures

It is estimated that approximately 800 tons of soil will be excavated as part of the Proposed Action. Virtually all of the disturbances will take place on areas of the Site that are currently paved. As such, there is limited vegetative removal and potential for erosion resulting from this Proposed Action. As indicated above, the construction work will be performed in accordance with the projects Erosion Control Plan and SWPPP prepared in accordance with NYSDEC requirements and under an approved Notice of Intent (NOI).

Prior to the initiation of and during construction activities, a geotextile filter fabric (or silt fence) or compost filter sock will be established along the perimeter of areas to be disturbed as a result of the construction that lies upgradient of water courses or adjacent properties. These barriers may extend into non-impact areas to ensure adequate protection of adjacent lands.

Clearing and grubbing will be performed only as necessary for the installation of the sediment control barrier. To ensure effectiveness of the sediment control barrier, daily inspections and inspections immediately after significant storm events will be performed by Site personnel. Maintenance of the silt fence will be performed as needed.

While dewatering is not anticipated to be required during excavation and backfill. If dewatering is required, all water derived during excavation dewatering will pass through a dewatering structure or filter bag as detailed in the soil erosion and sediment control (SESC) plan prior to the discharge to the basin located on the adjacent Lot 20 to the south.

In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures will be implemented. Temporary soil stabilization may consist of covering the exposed soil with mulch, seed and mulch, and/or erosion control mats (e.g. jute twisted yarn, excelsior wood fiber mats) to prevent the exposed soil from eroding until permanent soil stabilization has been implemented and achieved.

Water trucks may be used as needed during construction to reduce dust generated on the Site.

These erosion control measures will be installed prior to the start of construction and will be monitored and maintained throughout the construction of the proposed improvements. This will mitigate any potential for impacts associated with erosion associated with the proposed action.

3.2 SURFACE WATER

This Section documents the existing surface waters, wetlands and floodplains on the IWS Facility Site and evaluates potential impacts to these resources from the Proposed Action.

3.2.1 Existing Conditions

There are no surface water bodies, wetlands, or floodplains on the IWS Facility. The nearest surface water body to the Facility is the Wallkill River located approximately 930 feet to the west. The Wallkill River flows northward from Sparta, New Jersey to the Hudson River in Kingston, New York. The Wallkill River is classified as Class C in the vicinity of the Facility. The nearest wetlands to the Facility Site include a Freshwater Forested/Shrub Wetland mapped by the United States Fish and Wildlife Service's National Wetlands Inventory (NWI) on the Al Turi and Amy's Kitchen properties. Both wetlands are identified as PFO1E (Palustrine, forested, broad-leaved deciduous, seasonally flooded/saturated). The 0.31-acre NWI wetland on the Al Turi property is approximately 500 feet to southwest of the Facility and at a higher elevation. The 0.8-acre NWI wetland on the Amy's Kitchen property is approximately 900 feet north of the Facility. This wetland area was delineated by Amy's Kitchens as being 4.65-acres. There are no NYSDEC mapped wetlands on the properties adjacent to the Facility parcel. The base flood elevation along the Wallkill River in the vicinity of the Proposed Action is between 372 and 373 feet.

Stormwater discharges from the site are managed in accordance with the site's existing SPDES Multi-Sector General Permit (Permit I.D. No. NYR00F289) and also in accordance with the Town of Goshen's MS4 and stormwater management and erosion control requirements. Required monitoring records are maintained and filed with the NYSDEC in accordance with this permit and the associated Stormwater Pollution Prevention Plan (SWPPP). The Facility has no illicit discharges (non-stormwater) that are connected to the existing stormwater collection system. Leachate collected on the outdoor staging pads is collected in dual-walled underground storage tanks and removed by a licensed hauler and disposed of at a permitted treatment plant.

Stormwater from the paved areas of the site is collected by either a catch basin that discharges into a sampling manhole from which it is discharged via a 12-inch diameter culvert to the north or via overland flow to the low-lying lot/basin to the south. Down drains control stormwater runoff from the roof of the Facility buildings which is then direct water toward the low-lying lot/basin to the south of the site where the stormwater infiltrates into the ground and / or discharges to the northwest via a 36-inch corrugated metal pipe which runs under the Facility. The stormwater catch basins are fitted with storm drain filters and filter socks which provide treatment for the stormwater prior to discharge. These best management practices (BMPs) will continue to be implemented at the Project Site. IWS owns and maintains the existing stormwater management system and BMPs.

Stormwater discharges from the permitted outfall flows to the west via a swale between the toe of the slope and the access road into the Amy's Kitchen property. The stormwater discharges into a large rip-rap structure and then into Amy's Kitchen stormwater system. Flow from the stormwater discharge generally does not reach the rip-rap due to infiltration to the sand and gravel soils in the area which are hydrologic soil group A, having an infiltration rate of 2 inches per hour. Stormwater that discharges to the north from the Facility to the low-lying parcel to the south (Lot 20) infiltrates into the ground. While there is a pipe running under the Facility that provides a discharge for this "basin", flow has not been observed from the pipe. Water from the pipe running under the Facility would be discharged to the same rip-rap structure that stormwater from the north side of the Facility, and into the Amy's Kitchen stormwater system.

3.2.2 Potential Impacts

During construction of the Proposed Project, soil would be exposed as part of excavation and site preparation. As a result, there would be an increased likelihood of soil erosion and sedimentation. While erosion during construction is a potential impact, the construction activities will occur on flat surface areas with little grade variation limiting the potential for sediment impacts associated with erosion. Most stormwater runoff from the Facility, including

precipitation that will fall on the proposed project's construction area, drains to the adjacent low-lying parcel to the south infiltrates into the ground.

Because the construction of the proposed addition will be located on ground surface that is currently paved the new structure will not result in an increase in impervious surfaces. As a result, the construction of the TS addition will not result in an increase in stormwater runoff from the Facility over existing conditions. There will be an increase in impervious surfaces associated with the widening of the entrance to the Facility and improvements along the southern edge of the Facility. While this will result in a total increase of 283 square feet of impervious surface over existing conditions, much of the area is in the right-of-way along Hartley Road and will not result in an increase of stormwater runoff from the Facility. Stormwater runoff from these areas discharge to the low-lying parcel to the south (Lot 20) and infiltrates into the ground. As indicated above, a pipe running under the Facility provides a discharge for this Lot 20 "basin". While stormwater flow has not been observed from the pipe, water from the pipe running under the Facility is currently discharged to the same rip-rap structure that stormwater from the north side of the Facility, and into the Amy's Kitchen stormwater system. Stormwater handled by the Amy's Kitchen stormwater system discharges to a basin near the Wallkill River before being discharged to the river.

As a result of the of the soil conditions in the areas to the north and south of the Facility, stormwater discharges from the Facility infiltrate through the underlying sand and gravel, and little or no runoff from the Facility reach the Amy's Kitchen Stormwater System.

Pre-development and post-development drainage area maps are included in Appendix B-4, along with stormwater calculations that were completed utilizing HydroCad®, a computer aided design tool for modeling stormwater runoff. Pre-development and post-development peak discharge rates have been calculated for the 2-, 10-, 25- and 100-year 24-hour storm events. Since there is no increase in impervious surface, water quality calculations are not required.

The watershed for the Facility is approximately 5.5 acres and consists of three discharge locations, each defined as a Design Point (DP). DP-1 and DP-2 ultimately discharge into an existing culvert located on the property of Amy's Kitchen.

The table below summarizes the pre-construction.

Drainage Area	Acreage	Description
1	1.52	This drainage area consists of the majority of the site. Runoff flows northeast towards Amy's Kitchen.
2	3.45	This drainage area consists of Al Turi's property situated to the southwest of the Site and also a portion of the site that ultimately discharges into the existing culvert that runs underneath the Transfer Station Building and discharges towards Amy's Kitchen.
3	0.40	This drainage area includes area by the entrance to the Site and a small portion of Al Turi's property. This area discharges into the existing roadway drainage swale along Hartley Road.

There are also two existing leachate pads that discharge runoff into underground leachate storage tanks, Leachate Pad 1 is 0.05 acres and Leachate Pad 2 is 0.04 acres.

The table below summarizes the post-construction drainage areas.

Drainage Area	Acreage	Description
1	1.45	This drainage area consists of the majority of the site. Runoff flows northeast towards Amy's Kitchen.
2	3.53	This drainage area consists of Al Turi's property situated to the southwest of the Site and also a portion of the site that ultimately discharges into the existing culvert that runs underneath the Transfer Station Building and discharges towards Amy's Kitchen.
3	0.40	This drainage area includes area by the entrance to the Site and a small portion of Al Turi's property. This area discharges into the existing roadway drainage swale along Hartley Road.

Under the post development conditions, there will be one leachate pad (Leachate Pad 1) that will continue to discharge runoff into an underground leachate storage tank. Leachate Pad 1 is 0.09 acres.

Drainage Maps are provided in Appendix B-4 and depict the extent of the drainage areas and the locations of the design points for both pre-development and post-development conditions.

The methodology HydroCad® Stormwater Analysis, a comprehensive hydrology and hydraulic analysis application, was used to compute the stormwater peak discharge rate at the drainage area outfalls for each storm event. A comparison of the pre- and post- construction watershed conditions was performed for all design points and storm events evaluated herein. The hydrologic and hydraulic analysis considers the SCS Type III 24-hour storm events and uses TR-20 methodology.

Under the proposed improvements, the majority of the stormwater from Lots 7.1 and 9 will be directed to DP-1. The analyses demonstrate that the peak rate of runoff will not be increased post-construction for DP-2 or DP-3 for each design storm. The drainage area for DP-3 does not change pre- to post-development, however it does for DP-2 in the post-development condition. Currently DP-2 receives runoff from the project site as well as from the off-site, adjacent property. Under the post-development condition, DP-2 will only receive runoff from the existing off-site, adjacent property. This drainage area modification will inherently add additional runoff to DP-1 and remove runoff from DP-2.

The results of the computer modeling used to analyze the pre- and post- construction conditions are presented in Appendix B-4. The table below summarizes the pre-construction and post-construction peak discharge rates.

Design Point (DP #)	24-Hour Storm Event (cfs)					
	1-year		10-year		100-year	
	Pre	Post	Pre	Post	Pre	Post
1	4.25	4.04	7.66	7.28	13.86	13.16
2	0.21	0.28	3.69	4.09	14.98	15.89
3	0.78	0.78	1.73	1.73	3.44	3.44

The table below summarizes the pre-construction and post-construction runoff volumes.

Design Point (DP #)	24-Hour Storm Event (acre-feet)					
	1-year		10-year		100-year	
	Pre	Post	Pre	Post	Pre	Post
1	0.323	0.307	0.591	0.561	1.078	1.023
2	0.043	0.050	0.286	0.311	1.016	1.076
3	0.053	0.053	0.121	0.121	0.251	0.251

3.2.3 Mitigation Measures

During construction of the Proposed Project, soil would be exposed as part of excavation and site preparation. As a result, there would be an increased likelihood of soil erosion and sedimentation. The preliminary SWPPP for Facility contains several temporary stormwater management techniques for erosion and sediment control. The Preliminary SWPPP is included in Appendix C. The proposed construction stormwater management measures are consistent with the requirements of the NYSDEC SPDES General Permit for Stormwater Discharges from Construction Activity (Permit No. GP-0-25-001). The SWPPP Drawings depict the Proposed Erosion and Sediment Control Plan and Details that will be implemented prior to commencement of construction.

Stormwater discharges are currently managed in accordance with the NYSDEC SPDES Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (Permit No. GP-0-23-001) (NYR00F289). The proposed improvements will involve less than one acre of ground disturbance and the minimal increase in impervious surface area associated with the proposed entrance widening will not impact stormwater on the Facility site, and as such, no changes to the existing stormwater management system are required or proposed.

The proposed improvements will eliminate the amount of truck maneuvering that occurs outdoors which aid in improving the stormwater quality. Also, the loadout tunnel in the Building Addition will be equipped with a truck scale and a tarping rack that will further eliminate onsite truck maneuvering. Currently, transfer trailers need to be scaled once loaded and if the load is too light or the vehicle is overweight it must return to the Transfer Station for adjustment. Once the transfer trailer is ready exit the Site, it must travel around the Site to the existing tarping rack to be tarped prior to exiting the Facility. These truck movements will be eliminated once the Building Modifications are completed.

3.3 GROUNDWATER

This Section describes the groundwater resources at the Proposed Project and the potential impacts the project could have on groundwater resources.

3.3.1 Existing Conditions

The Facility is located in an area identified by NYSDEC as a Principle Aquifer of medium yield. The depth to groundwater at the Facility is 25 to 30 feet bgs. Groundwater flow beneath the site moves to the north, while deeper groundwater moves northwestward towards the Wallkill River. The Wallkill River is approximately 850 feet northwest of the Facility as shown on Sheet No. 2, Vicinity Map of the Engineering Drawings included in Appendix D which illustrates the location of surface waters near the Facility. Bedrock is expected to be greater than 75 feet bgs. As indicated in Section 3.1.1, previous investigations in the area have confirmed that joints and fractures in the bedrock trend northeast-southwest (Frimpter, 1972) and half of the occurring at a 40° to 60° orientation. Surficial and bedrock geologic maps are included as Figures 2 and 3, respectively.

There is one existing water well on site which is situated between the existing Office Building and existing Truck Scale which provides potable water to the Facility. Groundwater samples from the well were collected on May 2, 2023 and July 8, 2024. Groundwater quality exceedances were limited to sodium in both samples collected with concentrations of 29,200 and 27,500 ug/l compared to the drinking water maximum contaminant level (MCL) and groundwater standard of 20,000 ug/l and manganese reported at a concentration of 772 ug/l in the sample collected in July 2024 compared to a MCL and standard of 300 ug/l. It should be noted that the reported manganese concentration in the May 2023 sample was 241 ug/l. No other drinking water MCLs or groundwater standard exceedances were detected, and no volatile organic compounds were detected in either sample. The laboratory reports and a summary of the results are included in Appendix B-3.

Material handling operations takes place on the reinforced concrete Tipping Floor within the TS Building. Liquids generated during the waste handling and processing operations within the TS Building, as well as wash down water, is sloped away from the door openings and pitched toward drains to the Loadout Tunnels. Liquid that is not absorbed by the solid waste is directed through the drain openings to the Loadout Tunnel. From the Loadout Tunnels, water is conveyed by gravity via double-walled piping to double-walled underground leachate storage tanks located on each side of the TS Building. The Facility has two concrete Transfer Trailer Staging Area pads located on either side of the TS Building. These pads are designed to collect any leachate that might drip from the back of a loaded trailer. The pads also collect stormwater which is directed to the leachate storage tanks with any leachate from the trailers. The storage tanks are equipped with high-level alarms and are pumped out as needed. Leachate removed from the Facility is transported to a licensed wastewater treatment plant for treatment and disposal. The Facility currently uses Zuidema Septic Service & Portable Toilets from Midland Park, New Jersey to remove the leachate and sanitary wastewater. In 2024 the Facility generated and trucked offsite for disposal approximately 78,600 gallons of leachate. While considered leachate since some water comes into contact with solid waste, it is dilute when compared to leachate generated at a landfill, as most of the water collected is precipitation runoff from the two concrete Transfer Trailer Staging Area pads.

The 2023 and 2024 Annul Post Closure Reports for the adjacent Al Turi Landfill prepared by Cornerstone were reviewed as part of the groundwater evaluation. The water quality management program at the Al Turi landfill generally follows the procedures presented in the July 2005 Environmental Monitoring Plan (EMP), including reductions approved by NYSDEC in October 2021, including the cessation of monitoring for VOCs due to the lack of detections. The EMP compares water quality against trigger values established in 1983 which best represent pre-operational water quality. The results of the sampling in 2023 and 2024 indicate that groundwater results remain consistent with historical results, with trigger value exceedances reported in 2024 for hardness (2 wells), ammonia (2 wells), alkalinity (2 wells), and calcium (3 wells). Arsenic was above the trigger value in 3 wells and iron, manganese, sodium, and TDS were reported at concentrations above their respective trigger values and the Part 703 Standards at numerous wells. The arsenic, iron, manganese, sodium, and TDS concentrations were consistent with historic monitoring results. Chloride exceeded the trigger value in a single monitoring well located upgradient of the Landfill. The report indicated that the exceedances reported iron, manganese, and sodium are likely due to natural groundwater quality rather than landfill related impacts. Copies of these reports are included in Appendix B-5 and B-6.

3.3.2 Potential Impacts

The potential for impacts to groundwater associated with the Facility are related to the discharge of leachate to the underlying groundwater. Leachate is liquid that has come into contact with solid waste. This can result from liquid contained in solid waste materials at the time it is collected and delivered to the transfer station or from precipitation that comes into contact with the waste at the Transfer Facility.

MSW and C&D Debris is tipped on a 15-inch-thick concrete tipping floor that is sloped towards trench drains that direct leachate via double walled piping into double walled fiberglass reinforced leachate storage tanks. The leachate storage tanks are inspected daily for liquid levels. The tanks also have high level alarms that warn Facility

staff that the tanks need to be pumped out. With the construction of the proposed addition, much of the waste will be tipped and processed in the addition on a new concrete floor. The proposed addition will also result in the removal of one of the Transfer Trailer Staging Area pads reducing the amount of precipitation being collected in the leachate storage tanks. The Facility upgrades will also result in the removal of the leachate storage tank on the east side of the TS Building and its replacement with a new leachate storage tank.

A release of leachate from the Facility has the potential to impact groundwater quality if a release were to occur, though the depth to groundwater of 25 to 30 feet bgs does provide a buffer. The transportation of leachate to wastewater treatment plans poses the same risks as septage haulers or any other trucking activities related traffic accidents, although the leachate being trucked from the Facility would be for less noxious than sewage.

3.3.3 Mitigation Measures

To mitigate the risk of leachate discharging to the subsurface, material handling operations will continue to take place on the 15-inch thick reinforced concrete Tipping Floor within the TS Building and the TS Building Addition. To ensure the collection of liquids that may be generated during the waste handling and processing operations within the TS Building, as well as wash down water, the Tipping Floor of the proposed Addition will be constructed to slope inward from the door openings and pitch toward the push wall that divides the Tipping Floor from the Loadout Tunnel. Liquid that is not absorbed by the solid waste will be directed through push wall openings adjacent to the proposed Loadout Tunnel and down vertical channels in the Loadout Tunnel wall and will be conveyed by gravity via double-walled piping to a new double walled underground leachate storage tank. Likewise, leachate or other liquids in the Loadout Tunnel will be collected in sumps and directed to the leachate storage tank via the double-walled piping.

This design approach to the collection and conveyance of liquids generated from transfer station operations has a proven track record of optimizing the management of leachate while minimizing the maintenance requirements persistent to other approaches (i.e., floor drains and associated piping in the Tipping Floor area). There are no existing liner systems or soil barriers nor are there any proposed as part of the proposed addition. The concrete Tipping Floor and Loadout Tunnel provide sufficient protection of groundwater.

Leachate generated in the western side of the existing TS Building will be collected in floor drains along the western entrances and directed to the existing leachate storage tank to the west of the TS Building via the double walled piping.

The liquid level in the leachate tanks will be monitored daily by a Facility employee. When a tank nears three-quarter (3/4) capacity, it will be emptied by the Facility's permitted wastewater hauler. The tanks also include high-level alarm systems.

The Leachate Management System serving the new TS Building is depicted on Sheet No. 9, "Proposed General Arrangement Floor Plan" and details are shown on Sheet No. 14, "Proposed Leachate Management Details" of the Engineering Drawings.

Any leachate from trailers being stored on the Transfer Trailer Staging Area pad, as well as any stormwater coming into contact with the pad collection area, will be collected in a trough which drains to the existing leachate storage tank on the west side of the TS Building. IWS is currently using rail containers to transport virtually 100 percent of the solid waste removed from the Facility for offsite disposal. While transfer trailers have gaskets on the doors at the rear of the trailers, they become less watertight over time, and while IWS inspects and replaces worn gaskets, full trailers are parked on Transfer Trailer Staging Area pads to collect any drips to ensure leachate is not discharged to the environment. The rail containers are watertight as the openings are at the top so any leachate cannot drip out. The increased use of rail containers reduces the potential for leachate to be released. The elimination of one of the Transfer Trailer Staging Area pads will reduce the amount of leachate generated at the Facility with the reduction of precipitation being stored in the leachate storage tanks to an estimated 20,000 gallons per year.

3.3.4 Protection of Surface Waters and Groundwater

3.3.4.1 Spill Control Equipment

Spill control products will be maintained on site for response to an accidental spill or leak from a piece of mobile equipment (such as from a hydraulic hose) or to collect liquids discharged during a minor firefighting event. The procedure for control will be to deploy spill control products over the spill area, contain the resultant product and contaminant mixture, and dispose of the mixture with other landfill-bound waste.

Should a spill occur that releases a potentially toxic or suspected hazardous material, the spill shall be immediately contained; and the Town of Goshen Fire Department shall be immediately contacted by calling 911. The NYSDEC Regional On-Site Environmental Monitors Coordinator (ROSEMC) shall also be contacted at (845) 256-3138. If necessary, the NYSDEC twenty-four (24) Hour Spill Hotline shall be immediately notified at (800) 457-7362. Spills and associated remediation efforts will be documented in an Emergency Response Plan Implementation Report, or similar means, for inclusion in the Facility's annual report.

3.3.4.2 Stormwater Management

Stormwater from the pavement area is collected by either catch basins that discharge into a sampling manhole from which it is discharged via a 12-inch diameter culvert or overland flow. Down drains control stormwater from the roof of the Facility and direct water toward the low-lying lot to the south where stormwater will infiltrate into the ground.

Stormwater discharges from the site are managed in accordance with the site's existing SPDES Multi-Sector General Permit (Permit I.D. No. NYR00F289). Required monitoring records are maintained and filed in accordance with this permit and the associated Stormwater Pollution Prevention Plan (SWPPP).

3.3.4.3 Management of Leachate

Material handling operations will continue to take place on the reinforced concrete Tipping Floor within the TS Building. To ensure the collection of liquids that may be generated during the waste handling and processing operations within the TS Building, as well as wash down water, the Tipping Floor will be constructed to slope inward from the door openings and pitch toward the push wall that divides the Tipping Floor from the Loadout Tunnel. Liquid that is not absorbed by the solid waste will be directed through push wall openings adjacent to the proposed Loadout Tunnel and down vertical channels in the Loadout Tunnel wall and will be conveyed by gravity via double-walled piping to a double-walled underground leachate storage tank. Likewise, leachate or other liquids in the Loadout Tunnel will be collected in sumps and directed to the leachate storage tank via the double-walled piping.

This design approach for the Transfer Building Addition to the collection and conveyance of liquids generated from transfer station operations has a proven track record of optimizing the management of leachate while minimizing the maintenance requirements persistent to other approaches (i.e., floor drains and associated piping in the Tipping Floor area).

Leachate generated in the western side of the existing TS Building will continue to be collected in existing floor drains along the western entrances and directed to the existing leachate storage tank to the west of the TS Building via the double-walled piping.

Any leachate from trailers being stored on the Transfer Trailer Staging Area, as well as any stormwater coming into contact with this Staging Area, will be collected in a trough which drains to the existing leachate storage tank on the west side of the TS Building.

The liquid level in the leachate tanks will continue to be monitored daily by a Facility employee. When a tank nears three-quarter (3/4) capacity, it will be emptied by the Facility's permitted wastewater hauler. The tanks also include high-level alarm systems.

The Leachate Management System serving the new TS Building Addition is depicted on Sheet No. 9, "Proposed General Arrangement Floor Plan". Details are shown on Sheet No. 14, "Proposed Leachate Management Details".

3.4 HISTORIC AND ARCHEOLOGICAL RESOURCES

This Section presents information on historic and archeological resources and evaluates the potential effect on them.

3.4.1 Existing Conditions

Letters from the New York State Office of Parks, Recreation and Historic Preservation (SHPO) dated June 6, 2023, and April 22, 2025 both stated, "no properties, including archeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project". Copies of these letters are included as Appendix E-1 and E-2 of this DEIS, respectively. Additionally, the Project Site was originally developed in the 1980's and the property has been almost entirely previously disturbed.

Based upon the DEIS for the Amy's Kitchen project, one archaeological site was identified on the Ver Hage Property which is adjacent to the northern property line of the Project Site. However, this archaeological site is situated along the Cheechunk Creek west of the Walkill River, which approximately 930 feet away from the property line and will not be impacted by this Proposed Action.

3.4.2 Potential Impacts

As stated above, the Applicant has received two letters from SHPO which both state there are no properties, including archeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project. Furthermore, there will be no impacts to adjacent properties as part of the Proposed Action.

3.4.3 Mitigation Measures

The Proposed Project will not have any adverse environmental impacts to eligible archaeological sites. As such, no mitigation measures are necessary.

3.5 TRAFFIC AND TRANSPORTATION

This Chapter discusses the traffic conditions in the vicinity of the Facility and presents the results of Traffic Impact Studies completed for proposed projects in the area for the Facility.

3.5.1 Existing Conditions

Hartley Road is a two-lane roadway in the Town of Goshen the runs north and south between NYS Route 17M and Cheechunk Road. Hartley Road is approximately 28 feet wide and has a posted speed limit of 35 mph. There is a 5-ton weight limit posted on Hartley Road (except for local deliveries). There is a faded double-yellow pavement markings along the roadway, there are no sidewalks or curbing along Hartley Road. Additionally, there is faded stop bar at the intersection of Hartley Road and NYS Route 17M.

NYS Route 17M runs east and west in Orange County and is under the jurisdiction of the New York State Department of Transportation (NYSDOT) who is responsible for the maintenance and improvements to the roadway. Additionally, the intersection of Hartley Road and NYS Route 17M is under the jurisdiction of the NYSDOT. The intersection of Hartley Road, Gate Schoolhouse Road, and NYS Route 17M is a signalized, 2 lane highway without turning lanes. There are stop bars on Route 17M in both directions, on Hartley Road and on Gate Schoolhouse Road. The posted speed limit Route 17M in the vicinity of this intersection is 55 MPH. It should be

noted that the alignment between Hartley Road and Gate Schoolhouse Road is not at a 90-degree angle. NYS Route 17M is approximately 26-feet wide with 8-foot-wide shoulders in the vicinity of this intersection. Parking is not permitted along NYS Route 17M nor are there any sidewalks in the vicinity of the Hartley Road/Gate Schoolhouse Road intersection. There is curbing along Route 17M east of this intersection, but mainly to control stormwater from flowing onto the parcels at the intersection. Virtually all of the truck traffic to and from the Facility access Hartley Road via the intersection with NYS Route 17M. Effectively, all of the material shipped out of the Facility is now in Rail Containers being transported to Kearney, New Jersey to be loaded onto trains destined for Apex Sanitary Landfill located in Ohio which currently has permitted capacity until 2037. The Facility is also allowed to send solid waste to Keystone Sanitary Landfill located in Dunmore, Pennsylvania.

Traffic associated with the Facility operations include an average of 142 trucks per day, including an average of 113 inbound trucks and 29 outbound trucks per day. Operational traffic in and out of the Facility is relatively evenly spread out between 7:00 AM and 3:30 PM, though some of the outbound trucks will leave the Facility after 3:30 PM as the Facility is allowed to process material until 6:00 PM. Traffic related to the 11 employees tends to occur prior to 7:00 AM and after 4:00 PM.

Accident information was obtained from NYSDOT for the three (3) year period between April 2022 and April 2025 for the intersection of NYS Route 17M and Hartley Road/Gate Schoolhouse Road. The Accident Data Summary Tables are provided in Appendix B-7 which presents a summary of the accident data, including location, time of day, type of collision, road conditions and probable contributing factors. During this three year period, there were 10 accidents at the intersection of Hartley Road/Gate Schoolhouse Road and NYS Route 17M, one within 100 feet of the intersection, 3 within 200 feet of the intersection, 4 within 300 feet of the intersection, 5 within 400 feet of the intersection and 15 accidents occurred over 500 feet from the intersection. From 2022 through 2024, there were 10 traffic accidents at the intersection of Hartley Road and NYS Route 17M which equates to an accident rate of approximately 0.53 compared to the statewide average accident rate of 0.58 for a similar roadway as indicated on Table 2 in Appendix-B-5.

A number of recent traffic studies which provide detailed capacity analysis of the intersection of NYS Route 17M and Hartley Road/Gate Schoolhouse Road were reviewed to evaluate traffic conditions at the intersection of, including studies for Amy's Kitchen (April 2016), Dunkin Donuts (April 2022), and Goshen Redi-Mix (October 2023), which included the traffic associated with the IWS Transfer Station Facility. Appendix B-8 includes the peak weekday AM hour and PM hour traffic volumes that were recorded in each of these three studies. As shown, there is little or no difference between these studies with span of over 7 years. These projects are for new facilities that would be adding additional traffic to the Route 17M/Hartley Road intersection and the surrounding roads. The IWS project will not be adding any additional traffic to area roads or the Route 17M/Hartley Road intersection over the current volumes and those evaluated in the 2016, 2022 and 2023 studies. These studies included the traffic associated with the current operations of the IWS Facility and since the proposed action will not result in an increase in traffic over existing conditions, the findings presented are representative of the traffic in the area including the current Facility related traffic.

These three traffic studies also included evaluations of the Level of Service (LOS) and turning movements at the Route 17M and Hartley Road intersection which demonstrated a slight increase in traffic between 2015 and 2022/2023 and a satisfactory LOS during the morning and afternoon peak hours. Refer to Appendix B-9 for peak AM and PM level of service summary tables from each of these studies.

As shown on the peak AM and PM LOS summary tables, the LOS at the intersection of NYS Route 17M and Hartley Road has not changed significantly over the past 7 years.

- The 2015 traffic study conducted for Amy's Kitchen indicated the LOS at the intersection of NYS Route 17 and Hartley Road is operating at "A" in the AM Peak Hour and "A" during the PM Peak Hour.
- The 2022 traffic study conducted for Dunkin' Donuts indicated the LOS at the intersection of NYS Route 17 and Hartley Road is operating at "B" in the AM Peak Hour and "A" during the PM Peak Hour.
- The 2023 traffic study conducted for Goshen Redi-Mix indicated the LOS at the intersection of NYS Route 17 and Hartley Road is operating at "B" in the AM Peak Hour and "A" during the PM Peak Hour.

The Traffic Impact Study for Amy's Kitchen & Science of the Soul (Maser Consulting, April 2016) indicated that, utilizing 2015 traffic volumes, the intersection was operating at a Level of Service "A" during each of the peak hours. It was also noted in the 2016 Report that left turns from NYS Route 17M to Hartley Road and Gate Schoolhouse Road limits traffic flow through the intersection due to the lack of left turn lanes on NYS 17M. The Maser study reanalyzed the intersection using projected 2033 No-Build traffic volumes (Amy's Kitchen project) and concluded that the intersection would be expected to have a Level of Service "B" during the Peak Hours.

According to the Traffic Impact Study prepared for the Goshen Redi-Mix – Musckett Court Project, Town of Goshen, Orange County, New York by Colliers Engineering & Design dated October 24, 2023, it was noted that a traffic signal communication modem and related signal actuation improvements are proposed for this intersection. The Goshen Redi-Mix Traffic Study indicated that the construction of left turning lanes along NYS Route 17M at the intersection of Hartley Road and Gate Schoolhouse Road have been proposed in order to address the increased traffic associated with the proposed 2659 Route 17M and 2675 NYS Route 17 RDM projects, as well as the proposed Dunkin' Donuts project to be located at the intersection of Gate Schoolhouse Road and NYS Route 17M. The Report indicated that the improvements to the intersection are being coordinated with NYSDOT as part of permits needed for that project.

Traffic studies completed by Colliers Engineering & Design for the proposed Dunkin' Donuts project and Goshen Redi-Mix – Musckett Court, Town of Goshen, Orange County, New York where reviewed. Based upon these studies, the intersection of NYS Route 17M and Hartley Road/Gate Schoolhouse Road for the 2023 Existing Traffic Volumes are operating at a Level of Service "B" during the AM Peak Hours (7 AM to 9 AM) and "A" during the PM Peak Hours (3 PM to 6 PM). A 2026 No-Build capacity analysis indicated a Level of Service "E" during AM Peak Hours and "C" during the PM Peak Hours without the addition of left-turning lanes along NYS Route 17M. With the addition of left-turning lanes the Level of Services was determined to be "D" during AM Peak Hours and "B" during PM Peak Hours.

It is the Applicant's opinion, that the need for another detailed traffic capacity analysis for this application is not necessary since there has been little or no change to traffic at this intersection over the 7 years between the Amy's Kitchen traffic study and the studies for the Dunkin' Donuts and Goshen Redi-Mix projects, the unlikelihood of any significant increase between 2023 and today, the fact that the existing IWS traffic was included in each of these studies, and the fact that the IWS facility will not result in any change in traffic associated with its operation over the conditions included in the previous 3 traffic studies. It should be also noted there has also been similar traffic studies for other projects proposed along NYS Route 17M in the vicinity of IWS that were not referenced in this DEIS that included IWS traffic and did not reflect an increase in traffic.

3.5.2 Potential Impacts

Facility operations did result in increased traffic since 2006 due to the increase in tonnage the Facility has handled based on the Permit issued by NYSDEC compared to the 2003 Permit issued by the Town of Goshen and NYSDEC. While traffic to and from the Facility did increase in 2006, the increase was minor, amounting to 96 truck trips per day. This has not negatively impacted traffic on Hartley Road or NYS Route 17M, particularly considering the overall traffic increase on Hartley Road and Route 17M unrelated to the Facility operations since 2006. Based on NYSDOT traffic data, the Annual Average Daily Traffic on Route 17M in the vicinity of Hartley Road was 17,320 vehicles per day in 2022, and as indicated in the traffic studies discussed in Section 3.5.1 the Existing Traffic

Volumes at the NYS Route 17M / Hartley Road and Gate Schoolhouse Road intersection are operating at a Level of Service "B" during the AM Peak and at Level of Service "A" during the PM Peak. These traffic studies included the current traffic associated with the IWS Transfer Facility operations, which as indicated will not change as a result of the Proposed Action.

The Proposed Action will not result in an increase in traffic to and from the Facility since 2006 since the current permitted tonnage of material to be handled at the Facility will not change from the volume of material that has been handled at the Facility since 2006. As such the Proposed Action will not impact this intersection or change the traffic volume included in the 2016, 2022, or 2023 Traffic Studies. Furthermore, the majority of traffic at the intersection of NYS Route 17M and Hartley Road does not come from Hartley Road, rather it is through traffic travelling east and west along NYS Route 17M.

3.5.3 Mitigation Measures

There will be no modification permitted tonnage accepted by the Facility. As such, there will be no change to traffic at the Facility or the surrounding roadways associated with the Proposed Action from those evaluated in the Traffic Studies performed in 2016 and 2023 for the proposed projects discussed in Section 3.5.1. The current traffic routes associated with the Facility will remain the same as the existing traffic routes. As discussed above, there are improvements proposed to this intersection of NYS Route 17M and Hartley Road/Gate Schoolhouse Road which include the addition of left turning lanes that are part of project on Route 17M. The construction of left turning lanes along NYS Route 17M at the intersection Hartley Road and Gate Schoolhouse Road are proposed in order to address the increased traffic associated with the proposed 2659 Route 17M and 2675 NYS Route 17 RDM projects, as well as the proposed Dunkin' Donuts project to be located at the intersection of Gate Schoolhouse Road and NYS Route 17M. The Traffic Reports indicate that the applicants are working with NYSDOT on improvements to the intersection as part of the effort to obtain permits from NYSDOT.

A letter was sent to Mr. Land McMillan, P.E., Regional Director of the NYSDOT, Region 8 office and also Mr. Mark Tiano, P.E., Regional Design Engineer requesting the timeline for implementation of these improvements. While no response has been received, a copy of this letter is included in Appendix E-5.

The Proposed Action includes the widening of the curb-cut for the entrance to the Facility from approximately 48 feet to 65 feet and the removal of trees along the eastern right-of-way along Hartley Road. The widening of the Facility Entrance will allow tractor trailers leaving the Facility to make an easier right turn onto Hartley Road when exiting the Facility. The removal of trees along the Hartley Road right-of-way at the bend in the road will improve visibility to and from the Facility entrance of vehicles traveling from Route 17M, mitigating a potential hazard to traffic on Hartley Road.

As stated above, Hartley Road is a striped Town roadway that intersects with NYS Route 17M and also has a stop bar on Hartley Road at this intersection. According to the Town of Goshen Highway Superintendent Mr. Knoell, the Town of Goshen has retained a contractor to stripe the Town roads including Hartley Road. According to Mr. Knoell, the painted stop bar on Hartley Road at the intersection of NYS Route 17M is the responsibility of NYSDOT since it is a NYSDOT/Town Road intersection. The intersection of NYS Route 17M and Hartley Road/Gate Schoolhouse Road is the only signalized intersection on Route 17M between Route 17 and I-84 that does not have turning lanes. While the Applicant agrees that turning lanes would be beneficial to the flow of traffic on Route 17M, the traffic associated with the Facility is minor and the proposed Action will not result in an increase in traffic. Based on the information reviewed associated with other nearby projects located on Route 17M which will increase traffic through the intersection and do require permits from NYSDOT, it appears that upgrades to the intersection including the construction of turning lanes have been proposed as part of those projects. It is the Applicant's opinion, that currently there is sufficient space on Hartley Road for vehicles, including tractor trailers, to turn right or left onto NYS Route 17M. As such the need for upgrades to Hartley Road as part of this application is not necessary.

It is assumed that the Town of Goshen would be working with the applicants of those projects and the NYSDOT to ensure the intersection improvements meet the Town's needs. IWS will work with the Town of Goshen and the NYSDOT providing consultation relating to any proposed improvements to the intersection of Hartley Road and NYS Route 17M. As such, no other mitigation measures are proposed.

3.6 ODORS

This Section describes how odors are currently controlled and the measures that are utilized to control odors.

3.6.1 Existing Conditions

Currently, the Facility is permitted by the NYSDEC to accept 600 TPD of MSW and C&D Debris and 70 TPD of recyclables. Odors are controlled in the existing TS Building by manually activated spray fogger units that are stationed inside the existing Transfer Station Building and are activated as needed throughout the day. The fogger units contain Cherry Plus 5 Deodorant. A copy of the material safety data sheet (MSDS) is included in Appendix B-10. It should be noted that since there has been no change to the chemical composition of this product, the MSDS does not need to be upgraded to a Safety Data Sheet (SDS). Facility employees are trained in the proper use of this deodorant which is not harmful to humans.

Waste tipping vehicles and transfer vehicles are covered or tarped upon entering and exiting the site. Waste is regularly removed from the site at the end of each day. There have been no reported odor complaints at the Facility.

3.6.2 Potential Impacts

The Proposed Action involves the construction of a 9,345 square foot addition to the existing transfer station building for the processing and transfer of up to 670 tons of MSW and C&D debris per day. MSW has the potential to generate odors are caused by the decomposition of organic materials in the waste stream. While the Facility has no history of odor complaints, the Facility is a solid waste transfer station in which MSW is tipped and transferred into larger vehicles for transport out of Orange County for disposal. MSW has the potential to generate odors

The Facility is located next to the Old Al Turi Landfill and across Hartley Road from On Time Disposal, a roll off container company. IWS also owns the lot across Hartley Road to the east of the Facility (SBL 12-1-17.32). The closest residential building is approximately 1,700 feet to the north of the Facility. As such, there are minimal Potential Impacts associated with odor to neighboring properties.

3.6.3 Mitigation Measures

The TS Building Addition will be constructed with air exchange fan units to provide a minimum of six (6) building volume air changes per hour. The air exchange fan units will draw fresh air from active roll-up doors and wall mounted air exchange inlet louvers to replace air from the interior of the TS Building. This air exchange system is depicted on Sheet No. 9, "Proposed General Arrangement Floor Plan" and Sheet No. 11 and 12, "Proposed Building Elevations" of the Engineering Drawings.

The Existing TS Building and Proposed Building Addition will also be equipped with a high-pressure dust and odor control misting system installed in the ceiling of the building. This system will disperse a combination of atomized water to provide dust suppression and a liquid odor neutralization product designed to absorb and/or eliminate odors associated with solid waste transfer stations. The Facility will utilize standard products manufactured for this application by NCM, AiReactor, or other specialty companies. A copy of the MSDS for Cherry Plus 5 Deodorant is included in Appendix B-10. The proposed misting system layout is shown on Sheet No. 10, "Proposed Operations Floor Plan" of the Engineering Drawings. This system will include atomizing spray heads, set to discharge a combination of atomized water mixed with an odor neutralizing agent at timed intervals. The atomizing spray heads will be distributed to provide coverage over the Tipping Floor and at each of the exhaust fans. When combined with

an odor neutralizing agent, the atomized discharge from the misting system will serve to absorb and/or eliminate odors while successfully mitigating dust emissions that may be generated as a result of the MSW or C&D debris processing operations.

Odors associated with solid waste are generated as organic material decomposes. And while municipal solid waste will have odors in a container at the curbside before it is picked up, most of the municipal solid waste that arrives at a transfer station is less than a week old and once tipped onto the transfer station floor is typically loaded into a transfer container and removed from the building in less than an hour or two. As such, significant odor problems do not typically occur at transfer stations.

While not typically used at transfer stations, the use of a biofilter was evaluated as per the scoping document. Biofilters force air through an organic media, typically wood chips, and employ microorganisms to decompose contaminants. As odorous air passes through the media, the microorganisms digest odor-causing compounds like hydrogen sulfide and volatile organic compounds. Biofilters are typically used at composting facilities, wastewater treatment plants, and food processing plants that have consistent large volumes of organic material that generate significant odors. Biofilters can work well in these situations because the microorganisms get the consistent input of waste which provide nutrients on which they live. If there are big day-to-day variations in the waste stream, or days where there are no operations biofilters do not work well and operators need to include nutrient additives during inconsistent operations. Biofilters also tend to require a large footprint and the Goshen Facility does not have a lot of surplus space. Based on these conditions and limitations, the use of biofilters for odor treatment of interior air from the Transfer Building is not practicable. The proposed odor control system described above will provide adequate odor control. Furthermore, there have been no odor complaints at this Facility.

The Proposed Building Addition will also enable tipping vehicles to tip inside the transfer station building. The building modification will also include the installation of high-speed metal service doors that will be installed on the inbound and outbound tipping vehicle entrance doorways that will further help to reduce the escape of odors.

Also, waste tipping vehicles and transfer vehicles are covered or tarped upon entering and exiting the site. As per the Facility's NYSDEC Solid Waste Permit, the tipping floor must be cleared of municipal solid waste at the end of each day. Additionally, there have been no dust or odor complaints over the 25 years that the Facility has operated. With the ability to have all tipping operations occur fully within the Transfer Building, the limited amount of time that any load of solid waste spends in the building, and the use of Cherry Plus 5 deodorant as a misting agent, no new dust or odor issues are expected to occur related to the continued operation of the upgraded Facility. As such, this Proposed Project will not increase the dust or odors at this Facility.

3.7 IMPACT TO HUMAN HEALTH

This Section describes the potential impact to human health associated with Facility and the Proposed Action.

3.7.1 Existing Conditions

The NYSDEC Spills database identified 2 spills at the Facility: Spill No. 0100169, a 25-gallon spill of hydraulic oil in April 2001 cleaned up and closed by NYSDEC on April 10, 2001; and Spill No. 0402719, a 45-gallon diesel spill from a vehicle in June 2004 that was closed by NYSDEC on June 14, 2004. The adjacent Al Turi Landfill is a closed inactive hazardous waste site which has also had 2 small petroleum spills reported to NYSDEC, both of which have been closed. Based on the size of these spills and the fact that they were cleaned up and closed by NYSDEC, and the fact that the adjacent landfill has been capped, no impact to Human Health is anticipated as a result of the Proposed Action and the continued operation of the Facility.

The Facility is approximately 250 feet from the toe of the closed Al Turi Landfill, and concern has been raised by the Town Board that the Proposed Action could encounter waste materials or landfill gas associated with the Al Turi Landfill. The excavation work for the Transfer Station Addition will not encounter waste or groundwater impacts as

the ground surface in the project area is 6 to 8 feet above the base of the low-lying area on the adjacent Lot 20 parcel between the Site and the Landfill. NYSDEC website characterizes the Al Turi Landfill as having been “capped with geo-membrane, a barrier protection layer of soil and topsoil capable of sustaining a vegetative cover.” There is a gas collection which flares off gas when there is sufficient landfill gas being generated. A Record of Decision (ROD) was issued in March 1996 by NYSDEC that included capping the landfill “in accordance with Part 360, a groundwater monitoring network was established and institutional controls in the form of a deed restriction were put in place. Construction of the remedy was completed in August 2001. A contingency plan to address any significant impact to the Wallkill River, also required by the ROD, is in place. The potential for soil vapor intrusion was evaluated by the NYSDOH and the NYSDEC, and no further actions were deemed necessary in July 2008. The Annual Monitoring Reports demonstrate that landfill gas is not migrating off of the Al Turi Site, including in the direction of the Transfer Station Facility. Copies of the Annual Monitoring Reports for 2023 and 2024 are included in Appendix B-5 and B-6, respectively.

As discussed in Section 3.0, a soil investigation was completed in August 2025 which included three (3) soil borings within the footprint of the proposed Transfer Building Addition to depths of 15 to 20 feet bgs. No waste or evidence of contamination was identified in any of the soil borings. Soil samples collected for laboratory analysis detected no contaminants in the soil at concentrations above the most stringent New York State Soil Cleanup Objectives. Additionally, four (4) soil vapor sampling points were installed using a slam-bar apparatus to depths of approximately 5 feet bgs to the south of the proposed Addition and the existing Transfer Building and proximate to the property line. The three deeper soil borings and the soil vapor locations were all screened using an RKL Eagle 2 gas meter to detect concentrations of methane and hydrogen sulfide. Methane and hydrogen sulfide were not detected at any of the soil boring locations or at the four soil vapor points along the property boundary, confirming the results of the annual landfill gas monitoring performed at the landfill. Details on the subsurface soil and soil vapor investigation, including a summary table of the analytical results with New York State SCOs, the laboratory report, a map depicting the soil boring and vapor monitoring points, boring logs, and photographs are included in Appendix B-2.

Excavations associated with the proposed building addition will be approximately 250 feet from the Old Turi Landfill. There has been no gas migration from the Landfill including in the area adjacent to the Project Site as shown in the Post Closure Annual Reports for the Al Turi Landfill. The soil borings advanced within the footprint of the proposed addition to the Transfer Building confirms that excavation work for the Transfer Station Addition will not encounter waste or groundwater. NYSDEC website characterizes the Al Turi Landfill as having been “capped with geo-membrane, a barrier protection layer of soil and topsoil capable of sustaining a vegetative cover. Furthermore, gas monitoring that is conducted along the edge of the landfill has not encountered any explosive gas detections, as such, it is unlikely that there will be gas detections at the IWS Facility property. As such there is no potential for impact on human health associated with the Proposed Action and the adjacent landfill or landfill gas migration.

Leachate at the Facility is currently collected by interior trench drains that drain into double walled storage tanks. Once the tanks are full, the liquid is pumped out by licensed hauler and taken to a permitted wastewater treatment plant. Material handling operations take place on the reinforced concrete Tipping Floor within the TS Building, while the front portions of the trucks extend outside the TS Building. To ensure the collection of liquids that may be generated during the waste handling and processing operations within the TS Building, the Tipping Floor slopes toward the Loadout Tunnels where it is conveyed by gravity via double-walled piping to a double-walled underground leachate storage tanks.

Currently the lack of scales in the Loadout Tunnels in the existing TS Building requires loaded Rail Containers and Trailers to leave the Loadout Tunnel to be weighed. The Rail Containers or Trailers are either moved back to the Loadout Tunnel to have the material added or removed or brought to the Tarping Rack. These movements can result in litter, especially during windy conditions.

In the event of a spill, the employees will contact the Emergency Coordinator to determine the extent and nature of the spill and direct remedial efforts as appropriate. Spill control products are maintained at the Facility. A supply of adsorbent material is also stored in the Maintenance Shop for response to an accidental spill or leak from a piece

of mobile equipment (such as from a hydraulic hose) or to collect liquids discharged during a firefighting event. The procedure for control is to deploy spill control products over the spill area, contain the resultant product and contaminant mixture, and dispose of the mixture with other, landfill-bound waste.

Should a spill occur that releases a potentially toxic or suspected hazardous material, the spill shall be immediately contained, the Goshen Fire District contacted at 911 and the NYSDEC contacted. If necessary, the NYSDEC 24 Hour Spill Hotline will be notified. Spills and associated remediation efforts will be documented on an Emergency Response Plan Implementation Report for inclusion in the Facility's annual solid waste report that is submitted to the NYSDEC. The Facility's Spill Prevention and Countermeasures Plan (SPCC) contains the list of procedures for a fluid spill to be followed by Facility personnel.

3.7.2 Potential Impacts

The Proposed Action involves obtaining a Chapter 80B solid waste permit from the Town of Goshen for the continued the existing Transfer Station Facility, and to accept up to 670 TPD of MSW and C&D Debris for processing and transfer for transport out of Orange County for disposal. While the Proposed Project does involve modification of a solid waste management facility, the improvements to the Facility with the construction of the Addition will enable all tipping operations to be performed completely in the building improving conditions. While employees will still be in proximity to solid waste materials, Facility employees are well trained and are equipped with proper personal protective equipment. As such, any potential for impact on human health is small. The Facility is currently permitted by NYSDEC to accept up to 600 TPD of MSW and C&D Debris and up to 70 TPD of source-separated recyclables, which it has since 2006. While this is an increase in the amount of material handled at the Facility over the 2003 volume, it is not an increase in the material handled at the Facility since 2006 so there will be no increase in traffic associated with the Facility over current operations. As such, this is determined to have been a small impact.

Leachate will continue to be collected by interior trench drains that drain into double walled storage tanks. Once the tanks are three-quarters full, the liquid is pumped out by licensed hauler and taken to a permitted wastewater treatment plant. Material handling operations will take place on the reinforced concrete Tipping Floor within the TS Building. To ensure the collection of liquids that may be generated during the waste handling and processing operations within the TS Building, as well as wash down water, the Tipping Floor will be constructed to slope inward from the door openings and pitch toward the push wall that divides the Tipping Floor from the Loadout Tunnel. Liquid that is not absorbed by the solid waste will be directed through push wall openings adjacent to the proposed Loadout Tunnel and down vertical channels in the Loadout Tunnel wall and will be conveyed by gravity via double-walled piping to a double walled underground leachate storage tank. Likewise, leachate or other liquids in the Loadout Tunnel will be collected in sumps and directed to the leachate storage tank via the double walled piping.

This design approach to the collection and conveyance of liquids generated from transfer station operations has a proven track record of optimizing the management of leachate while minimizing the maintenance requirements persistent to other approaches (i.e., floor drains and associated piping in the Tipping Floor area).

Leachate generated in the western side of the existing TS Building will be collected in floor drains along the western entrances and directed to the existing leachate storage tank to the west of the TS Building via the double-walled piping.

Any leachate from trailers being stored on the Proposed Transfer Trailer Staging Area pad, as well as any stormwater coming into contact with the portion of the Staging Area pad where leachate is collected, will be collected in a trough which drains to the existing leachate storage tank on the west side of the TS Building.

The liquid level in the leachate tanks will be monitored daily by a Facility employee. When a tank nears three-quarter (3/4) capacity, it will be emptied by the Facility's permitted wastewater hauler. The tanks also include high-level alarm systems.

The Leachate Management System serving the new TS Building is depicted on Sheet No. 9, "Proposed General Arrangement Floor Plan" and details are shown on Sheet No. 14, "Proposed Leachate Management Details" of the Engineering Drawings.

The potential exists for spills associated with vehicle fluids, hydraulic oils, and contaminants associated with other, landfill-bound waste to occur at the Facility. A release of these types of materials could affect Human Health.

Litter from un-tarped trailers needing to maneuver around the Facility to be scaled before being tarped to confirm weight can contribute to the presence of plastics in the environment which can eventually break down and become microplastics which are tiny particles of plastic which have been found everywhere on the planet and in human blood and tissue. The effects of microplastics on human health is only now being studied.

Potential impacts to Health associated to the proximity of the Facility and proposed project to the adjacent Landfill, based on the monitoring performed to date, is extremely low as no landfill gas migration has occurred and the limits of waste at the landfill is well documented.

3.7.3 Mitigation Measures

As described above, material handling operations will take place on the reinforced concrete Tipping Floor and Loadout Tunnel within the TS Building to guard against the potential for impacts associated with leachate or wash-down water to surface waters, soils, or groundwater. Leachate generated in the TS Building that is not absorbed by the solid waste is directed into double walled underground leachate storage tanks via double-walled piping. Trailer storage is also on concrete pad which drains any water coming into contact with the floor a leachate storage tank mitigating any potential release.

The improvements to the Facility with the construction of the TS Addition will enable all tipping operations to be performed completely in the building improving conditions. While employees will still be in proximity to solid waste materials, Facility employees are well trained and are equipped with proper personal protective equipment to mitigate potential hazards. The improvements to the Facility will also include a fire suppression system, mitigating hazards associated with a fire in the TS building should one occur. The Transfer Station Addition will include a scale and tarping rack in the loadout tunnel which will allow containers to be loaded to the allowable weight and then tarped before leaving the Transfer Building. The improvements to the loadout tunnel and the tipping floor area which will enable all tipping operations to occur inside will reduce the amount of litter associated with the operation of the Facility. Upon completion of tarping of loaded containers and prior to containers leaving the Facility, a walk around is performed to ensure no debris or other materials extend beyond the top of the container to ensure debris or other materials cannot fall out of vehicles leaving the Facility.

In the event of a spill, the employees will contact the Emergency Coordinator to determine the extent and nature of the spill and direct remedial efforts as appropriate. Spill control products are maintained next to the aboveground fuel tanks. A supply of adsorbent material is also stored in the Maintenance Shop for response to an accidental spill or leak from a piece of mobile equipment (such as from a hydraulic hose) or to collect liquids discharged during a firefighting event. The procedure for control is to deploy spill control products over the spill area, contain the resultant product and contaminant mixture, and dispose of the mixture with other, landfill-bound waste.

Should a spill occur that releases a potentially toxic or suspected hazardous material, the spill shall be immediately contained, the Goshen Fire District contacted at 911 and the NYSDEC contacted. If necessary, the NYSDEC 24 Hour Spill Hotline will be notified. Spills and associated remediation efforts will be documented on an Emergency Response Plan Implementation Report for inclusion in the Facility's annual solid waste report that is submitted to the NYSDEC. The Facility's Spill Prevention and Countermeasures Plan (SPCC) contains the list of procedures for a fluid spill to be followed by Facility personnel.

While soil gas monitoring around the perimeter of the Al Turi Landfill has documented that no gas migration is occurring from the Landfill and the NYSDOH and NYSDEC determined no further actions were necessary in July

2008 regarding gas migration, soil gas sampling will also be performed along the southern property line of the property prior to the start of any excavation work to test for explosive gasses from the adjacent landfill. During the August 2025 soil investigation, soils were screened in the field for odors and visual indications of contamination and with a PID to screen for elevated VOCs. No visual staining or odors were noted in any of the soils and no VOCs were detected using the PID. As such, a sub-slab ventilation system will not be incorporated into the design of the foundation of the addition. Furthermore, there have been no remedial actions performed at this Site.

4.0 ALTERNATIVES

4.1 NO BUILD ALTERNATIVE

If the Chapter 80B Permit is not granted and the Facility is closed, the 600 TPD of solid waste currently handled and processed at the Transfer Station would likely be re-directed to the Orange County Transfer Station No. 1 located off NYS Route 17M in Goshen. The closure of the Facility would result in an additional burden on the County Transfer Station to accept and process the waste materials generated in Orange County that are currently processed and transported out of Orange County at the IWS Facility.

4.2 REDUCED SCALE ALTERNATIVE

The Proposed Action includes the acceptance of 670 TPD of MSW and C&D Debris. The Facility is currently permitted to accept up to 600 TPD of MSW and C&D Debris and up to 70 TPD of recyclables. If the Chapter 80B Permit is granted, and the tonnage adjustment is not made, the IWS Goshen Transfer Station will continue to operate at the Facility within the existing transfer station that has no overhead doors to enclose the tipping floor and the two (2) loadout tunnels. The loadout tunnels in the existing transfer station are not equipped with truck scales, as such, transfer trailers need to maneuver to the existing truck scale to be weighed. If too light or too heavy, the transfer trailer or rail container must return to the Transfer Station Building in order to adjust the weight of their load. Also, since there are no tarping racks in the loadout tunnels in the existing Transfer Station Building, this truck movement is done while the transfer trailer or rail container is uncovered which can result in blown litter from the vehicle during windy conditions.

A Facility having a reduced capacity would continue to generate leachate that would have to be contained and periodically removed. Additionally, as with the “No Build Alternative”, if the Facility were to be required to operate at a lower tonnage rate, the reduced volume of solid waste material would likely be diverted to the Orange County Transfer Station No. 1 located off NYS Route 17M in Goshen.

Facilities that have NYSDEC Solid Waste Permit do not request a reduction in the permitted tonnage, since there is a substantial effort involved in obtaining a solid waste permit from the NYSDEC, and facilities need to operate at sufficient daily volumes to make them economically viable. As such, a reduction in the tonnage is not a consideration for this Proposed Action.

4.3 INCLUSION OF RECYCLABLES SEPARATE FROM SINGLE STREAM

Collection of recyclables in Orange County and the surrounding area is single stream, meaning that glass, plastic, metal, paper and cardboard are co-mingled. This co-mingled recyclables stream must be sorted in a Materials Recovery Facility (MRF) using a combination of technologies, including magnets, screens, conveyor belts, air jets, and optical readers. This enables the materials to be recycled, increases the value of the recyclable materials and diverts the material which would otherwise be sent for disposal. The public have become accustomed to single stream recycling and switching to source separated recycling where glass, plastic, metal, and paper and cardboard are put in separate containers would be an inconvenience which would likely result in lower recycling rates. Source separated recycling would also increase costs to the public due to increased collection costs.

IWS has a MRF in Airmont, New York and a new state-of-the-art MRF located in North Arlington, New Jersey that is capable of sorting single stream recycling into valuable separate commodities and also removing these valuable waste streams from being landfilled. IWS transports collected recyclables from locations in Orange County to its MRF in Airmont, New York MRF. The single stream recyclables collected at Orange County Transfer Station No. 1 are transferred to transfer trailers and transported to the North Arlington, New Jersey MRF for processing.

The IWS Goshen Facility does not have the real estate for the construction of a MRF and it would not make financial sense for IWS to construct a third MRF proximate to their Airmont, New York, facility and their new facility in North Arlington, New Jersey. As such, the inclusion of source separated or single stream recyclables at the Facility is not a feasible alternative.

5.0 UNAVOIDABLE ADVERSE IMPACTS

There will be no impact adverse impacts associated with the issuance of the 80B Permit by the Town as the Facility is an active Transfer Station Facility and there will be no change in the volume of material to be handled at the Facility over the volumes handled at the Facility since 2006.

There will be no impact to any existing natural site features as part of this Proposed Action and the proposed Facility upgrades, since proposed building addition will be constructed on land that has been previously developed and is currently covered by asphalt or concrete. The widening of the Facility entrance will have minimal impact to environmental resources, most of which are the drainage swale along Hartley Road given the positive effects it will have on truck traffic flow entering and exiting the Facility. Given the Facility location, topography, the distance to any surface water bodies or wetlands, and the erosion control measures, the risk of sediment impacts associated with the construction activities is minimal. There will be no impact on geologic features as bedrock will not be encountered during construction. The potential for impacts to groundwater associated with the release of leachate to the subsurface is minimized by handling of waste on the concrete floor inside the TS Building and containing leachate in double-walled fiberglass storage tanks. The proposed project will have no adverse impacts on existing traffic as the traffic to and from the Facility will remain the same as the current traffic associated with the Facility operations. Potential human health impacts are limited by training that IWS provides to Facility employees and the proposed improvements to the Facility. Personnel are also trained to properly address potential spills, further reducing the potential for adverse impacts on the environment and human health.

A temporary increase in traffic and noise associated with the construction of the proposed Facility upgrades are an unavoidable impact. Given the location of the Facility in the Industrial Zone and the lack of residential neighbors in proximity of the Facility, these impacts will be minimal.

6.0 IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT OF RESOURCES

IWS has operated the Goshen Transfer Station since 2006 prior to which the transfer station was owned and operated by Northern Recycling and Waste Management. The proposed building modification will be constructed in an area that is currently covered with asphalt pavement or concrete. Because the existing Facility parcel is fully developed, the construction of the Proposed Addition will not result in the commitment of any irreversible or irretrievable resources.

7.0 GROWTH INDUCING ASPECTS OF THE PROPOSED ACTION

The proposed action is the issuance of a solid waste management permit under Town Code Chapter 80B. Upon issuance of the Town of Goshen Permit and the NYSDEC Part 360 Permit, IWS will move forward with the proposed upgrades to the Facility with the construction of the Addition to the Transfer Station Building as approved conditionally by the Planning Board. The issuance of the Permit and the upgrades to the existing Facility will not result in additional employees or traffic and will have no growth inducing characteristics.

8.0 BIBLIOGRAPHY

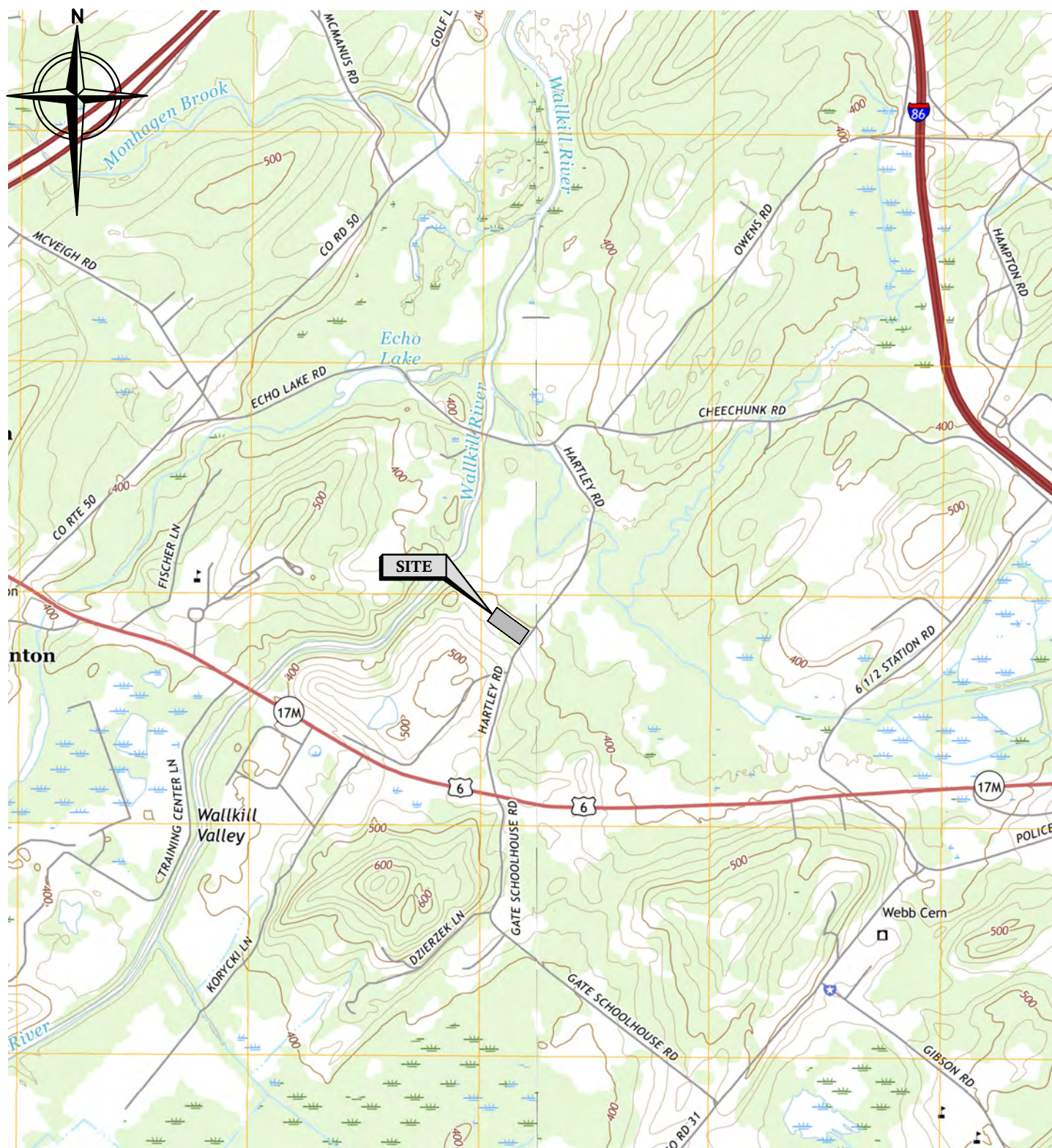
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9.0 LIMITATIONS

The work product included in the attached was undertaken in full conformity with generally accepted professional consulting principles and practices and to the fullest extent as allowed by law we expressly disclaim all warranties, express or implied, including warranties of merchantability or fitness for a particular purpose. The work product was completed in full conformity with the contract with our client and this document is solely for the use and reliance of our client (unless previously agreed upon that a third party could rely on the work product) and any reliance on this work product by an unapproved outside party is at such party's risk.

The work product herein (including opinions, conclusions, suggestions, etc.) was prepared based on the situations and circumstances as found at the time, location, scope and goal of our performance and thus should be relied upon and used by our client recognizing these considerations and limitations. Cornerstone Engineering and Geology, PLLC shall not be liable for the consequences of any change in environmental standards, practices, or regulations following the completion of our work and there is no warrant to the veracity of information provided by third parties, or the partial utilization of this work product.

FIGURES



SCALE IN FEET

This drawing represents intellectual property of Cornerstone. Any modification to the original by other than Cornerstone personnel violates its original purpose and as such is rendered void. Cornerstone will not be held liable for any charges made to this document without express written consent of the originator.

SOURCE MAPPING NOTES:

BACKGROUND SOURCE MAPPING COMPILED FROM U.S. GEOLOGICAL SURVEY 7-1/2 MINUTE TOPOGRAPHIC QUADRANGLE MAP IMAGERY FOR GOSHEN (2016), AND MIDDLETOWN (2016).

Unauthorized alteration or addition to this plan bearing a licensed professional's seal is a violation of Section 7209, Sub-Division 2, of the New York Education Law. Only copies from the original of this plan marked with an original professional's seal shall be considered to be valid true copies.



PREPARED BY:
CORNERSTONE ENGINEERING AND GEOLOGY, PLLC

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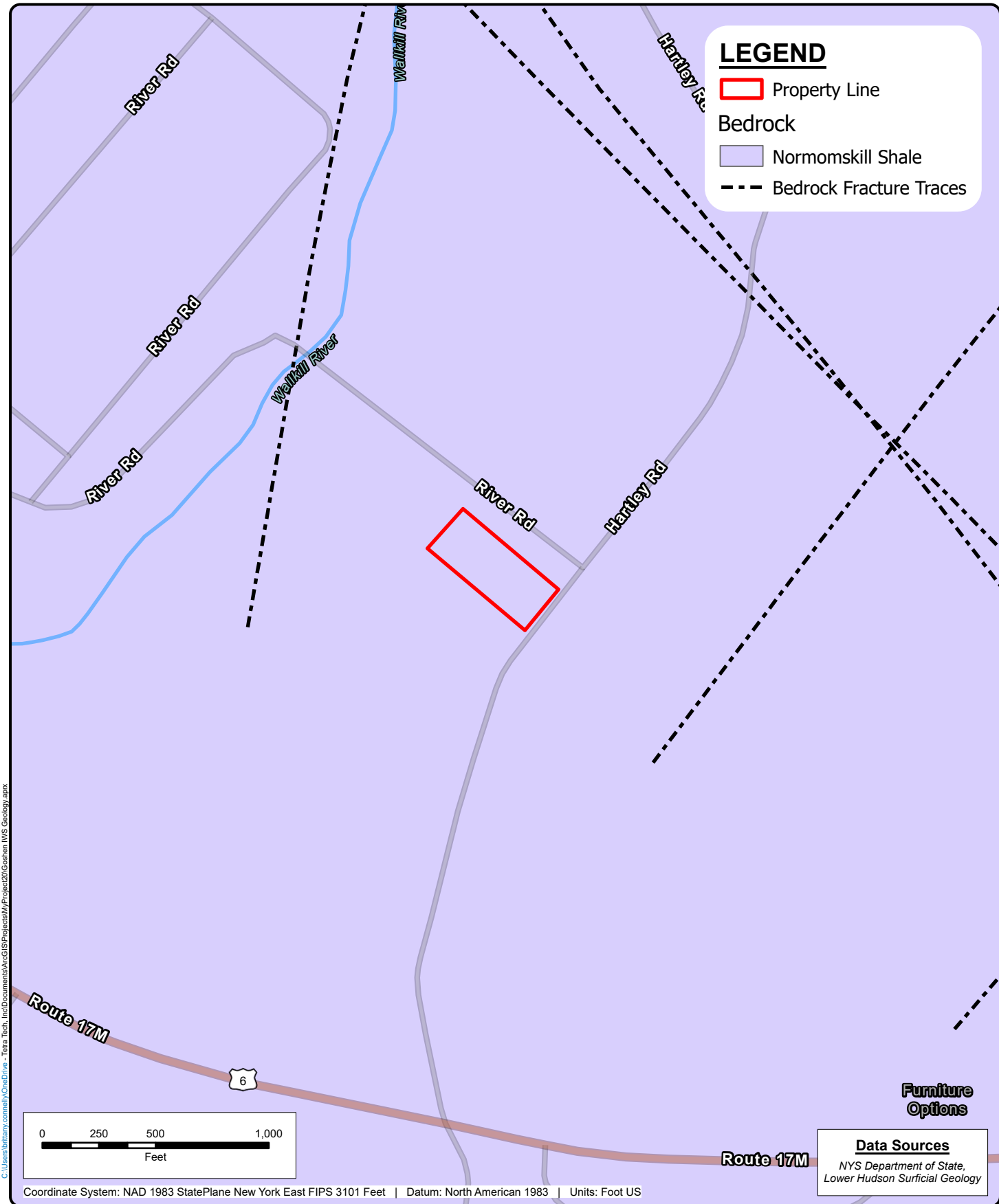
IWS TRANSFER SYSTEMS OF NY, INC.
GOSHEN TRANSFER STATION
95 HARTLEY ROAD, GOSHEN, NEW YORK 10924

SITE LOCATION MAP

FIGURE NO.

1

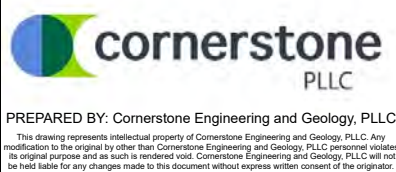
PROJECT NO.
4233429



PREPARED BY:
BCC

APPROVED BY:
RJC

DATE CREATED:
9/10/2025



I.W.S. TRANSFER SYSTEMS OF NY., INC.
GOSHEN - TRANSFER STATION UPGRADES
95 HARTLEY ROAD, GOSHEN, NEW YORK

BEDROCK GEOLOGY AND FRACTURE TRACES

FIGURE NO.
3
PROJECT NO.
4223429

APPENDIX A: SEQR DOCUMENTATION

Appendix A-1: Full Environmental Assessment Form (EAF) (7-25-2024)

Appendix A-2: Final Adopted Part 2 EAF (3-27-2025)

Appendix A-3: SEQR Positive Declaration (3-27-2025)

Appendix A-4: Letter to Supervisor Betro from Kelly M. Naughton, Esq. dated 4-30-2025

Appendix A-5: SEQR Scoping Document Adopted 5-8-2025

APPENDIX A-1: FULL ENVIRONMENTAL ASSESSMENT FORM (EAF)
(7-25-2024)

Full Environmental Assessment Form
Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. 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; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either “Yes” or “No”. If the answer to the initial question is “Yes”, complete the sub-questions that follow. If the answer to the initial question is “No”, proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: I.W.S. Transfer Systems of N.Y., Inc. Solid Waste Transfer Facility		
Project Location (describe, and attach a general location map): 95 Hartley Road, Goshen, NY 10924		
Brief Description of Proposed Action (include purpose or need): Proposed improvements to the existing solid waste transfer facility in order to comply with the revised 6 NYCRR 360 and 362 Regulations and new requirements set forth in those Regulations. The project includes the construction of a 9,345 square foot addition to the existing transfer station building with a 432 square foot utility room, and a 65,000-gallon water tank for fire suppression. The project will include the demolition and removal of the former Recycling Area structure which is approximately 3,000 square feet in size.		
Name of Applicant/Sponsor: I.W.S. Transfer Systems of NY, Inc.	Telephone: 609-472-8730	
	E-Mail: JAnderson@interstatewaste.com	
Address: 89 Black Meadow Road		
City/PO: Chester	State: New York	Zip Code: 10918
Project Contact (if not same as sponsor; give name and title/role): James Anderson, Director of Engineering, IWS	Telephone: 609-472-8730	
	E-Mail: JAnderson@interstatewaste.com	
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor):	Telephone:	
	E-Mail:	
Address:		
City/PO:	State:	Zip Code:

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, ☒ Yes ☐ No or Village Board of Trustees	Goshen Town Board	6/xx/2024
b. City, Town or Village Planning Board or Commission ☒ Yes ☐ No	Town of Goshen Planning Board	12/1/2022 - Planning Board approval granted 2/29/2024
c. City, Town or Village Zoning Board of Appeals ☒ Yes ☐ No	Town of Goshen Zoning Board of Appeals	3/23/2023 - Variance request approved 9/19/2023 and 2/6/2024
d. Other local agencies ☒ Yes ☐ No	Town of Goshen Building Department	
e. County agencies ☐ Yes ☐ No		
f. Regional agencies ☐ Yes ☐ No		
g. State agencies ☒ Yes ☐ No	NYSDEC: SWMF Permit	3/27/2024
h. Federal agencies ☐ Yes ☐ No		
i. Coastal Resources.		
i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway?		☐ Yes ☒ No
ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program?		☐ Yes ☒ No
iii. Is the project site within a Coastal Erosion Hazard Area?		☐ Yes ☒ No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐ Yes ☒ No

- If Yes, complete sections C, F and G.
- If No, proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☒ Yes ☐ No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☐ Yes ☒ No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☐ Yes ☒ No

If Yes, identify the plan(s):

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐ Yes ☒ No

If Yes, identify the plan(s):

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☒ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?

Industrial Zone

b. Is the use permitted or allowed by a special or conditional use permit? ☒ Yes ☐ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☒ No

If Yes,

i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Goshen Central School District

b. What police or other public protection forces serve the project site?

Town of Goshen Police Department, NYS Police (Troop F)

c. Which fire protection and emergency medical services serve the project site?

Goshen Fire District, Goshen Volunteer Ambulance Corp.

d. What parks serve the project site?

The Orange County Heritage Trail to the north is the closest park; Bruen, Erie Street, Ganley, Lions, Salesian, and Craigville Parks.

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Industrial/Essential Service

b. a. Total acreage of the site of the proposed action? 3.0 acres

b. Total acreage to be physically disturbed? 0.3 acres

c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 3.0 acres

c. Is the proposed action an expansion of an existing project or use? ☒ Yes ☐ No

i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % 9,777 Units: square feet

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☒ No

If Yes,

i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)

ii. Is a cluster/conservation layout proposed? ☐ Yes ☐ No

iii. Number of lots proposed? _____

iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? ☐ Yes ☒ No

i. If No, anticipated period of construction: 12 months

ii. If Yes:

- Total number of phases anticipated _____

- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year

- Anticipated completion date of final phase _____ month _____ year

- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

f. Does the project include new residential uses? ☐ Yes ☒ No If Yes, show numbers of units proposed.				
	<u>One Family</u>	<u>Two Family</u>	<u>Three Family</u>	<u>Multiple Family (four or more)</u>
Initial Phase	_____	_____	_____	_____
At completion	_____	_____	_____	_____
of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? ☒ Yes ☐ No If Yes,	
i. Total number of structures _____ 1 ii. Dimensions (in feet) of largest proposed structure: _____ height; _____ width; and _____ length iii. Approximate extent of building space to be heated or cooled: _____ square feet	

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☐ Yes ☒ No If Yes,	
i. Purpose of the impoundment: _____ ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☐ Other specify: _____ iii. If other than water, identify the type of impounded/contained liquids and their source. _____ iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): _____ _____	

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? ☐ Yes ☒ No (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) If Yes:	
i. What is the purpose of the excavation or dredging? _____ ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site? • Volume (specify tons or cubic yards): _____ • Over what duration of time? _____ iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them. _____ _____ iv. Will there be onsite dewatering or processing of excavated materials? ☐ Yes ☐ No If yes, describe. _____ _____ v. What is the total area to be dredged or excavated? _____ acres vi. What is the maximum area to be worked at any one time? _____ acres vii. What would be the maximum depth of excavation or dredging? _____ feet viii. Will the excavation require blasting? ☐ Yes ☐ No ix. Summarize site reclamation goals and plan: _____ _____ _____	

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☐ Yes ☒ No If Yes:	
i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____ _____ _____	

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

iii. Will the proposed action cause or result in disturbance to bottom sediments? ☐ Yes ☐ No
If Yes, describe: _____

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? ☐ Yes ☐ No
If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____
- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

c. Will the proposed action use, or create a new demand for water? ☐ Yes ☒ No
If Yes:

i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☐ Yes ☐ No
If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? ☐ Yes ☐ No
- Is the project site in the existing district? ☐ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☐ No
- Do existing lines serve the project site? ☐ Yes ☐ No

iii. Will line extension within an existing district be necessary to supply the project? ☐ Yes ☐ No
If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____
- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐ Yes ☐ No
If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____
Private on site well.

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☒ Yes ☐ No
If Yes:

i. Total anticipated liquid waste generation per day: _____ 150 gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____
Wastes will include leachate from transfer operations. Wastewater generated will be the same as that currently generated and will continue to be handled in the same manner as it is currently handled.

iii. Will the proposed action use any existing public wastewater treatment facilities? ☒ Yes ☐ No
If Yes:

- Name of wastewater treatment plant to be used: Wanaque Treatment Plant, Wanaque, NJ
- Name of district: Wanaque Valley Regional Sewerage Authority
- Does the existing wastewater treatment plant have capacity to serve the project? ☒ Yes ☐ No
- Is the project site in the existing district? ☒ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☒ No

• Do existing sewer lines serve the project site? _____ • Will a line extension within an existing district be necessary to serve the project? _____ If Yes: • Describe extensions or capacity expansions proposed to serve this project: _____ _____ _____	☐ Yes ☒ No ☐ Yes ☒ No	
iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? _____ If Yes: • Applicant/sponsor for new district: _____ • Date application submitted or anticipated: _____ • What is the receiving water for the wastewater discharge? _____	☐ Yes ☒ No	
v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans): _____ _____ _____		
vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____ _____ _____		
e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? _____ If Yes: i. How much impervious surface will the project create in relation to total size of project parcel? _____ Square feet or _____ acres (impervious surface) _____ Square feet or _____ acres (parcel size) ii. Describe types of new point sources. _____ iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)? _____ _____ • If to surface waters, identify receiving water bodies or wetlands: _____ _____ • Will stormwater runoff flow to adjacent properties? _____	☐ Yes ☒ No ☐ Yes ☐ No ☐ Yes ☐ No	
iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? _____		
f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? _____ If Yes, identify: i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles) Heavy mobile equipment, vehicles bringing solid waste materials to and from the Facility. _____ ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers) None. _____ iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation) None. _____	☒ Yes ☐ No	
g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? _____ If Yes: i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) _____ ii. In addition to emissions as calculated in the application, the project will generate: • _____ Tons/year (short tons) of Carbon Dioxide (CO₂) • _____ Tons/year (short tons) of Nitrous Oxide (N₂O) • _____ Tons/year (short tons) of Perfluorocarbons (PFCs) • _____ Tons/year (short tons) of Sulfur Hexafluoride (SF₆) • _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydrofluorocarbons (HFCs) • _____ Tons/year (short tons) of Hazardous Air Pollutants (HAPs)		☐ Yes ☒ No ☐ Yes ☐ No

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☐ Yes ☒ No If Yes: i. Estimate methane generation in tons/year (metric): _____ ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____			
i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐ Yes ☒ No If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): _____			
j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☐ Yes ☒ No If Yes: i. When is the peak traffic expected (Check all that apply): ☐ Morning ☐ Evening ☐ Weekend ☐ Randomly between hours of _____ to _____. ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____ iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____ iv. Does the proposed action include any shared use parking? ☐ Yes ☐ No v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: _____ vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☐ Yes ☐ No vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☐ Yes ☐ No viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☐ Yes ☐ No			
k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☒ Yes ☐ No If Yes: i. Estimate annual electricity demand during operation of the proposed action: _____ 4,000 kWh ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): Via grid / local utility. iii. Will the proposed action require a new, or an upgrade, to an existing substation? ☐ Yes ☒ No			
l. Hours of operation. Answer all items which apply. <table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> i. During Construction: • Monday - Friday: _____ *7:00 AM - 6:00 PM • Saturday: _____ *7:00 AM - 12:00 PM (Noon) • Sunday: _____ • Holidays: _____ </td> <td style="width: 50%; vertical-align: top;"> ii. During Operations: • Monday - Friday: _____ *7:00 AM - 6:00 PM • Saturday: _____ *7:00 AM - 12:00 PM (Noon) • Sunday: _____ • Holidays: _____ </td> </tr> </table>		i. During Construction: • Monday - Friday: _____ *7:00 AM - 6:00 PM • Saturday: _____ *7:00 AM - 12:00 PM (Noon) • Sunday: _____ • Holidays: _____	ii. During Operations: • Monday - Friday: _____ *7:00 AM - 6:00 PM • Saturday: _____ *7:00 AM - 12:00 PM (Noon) • Sunday: _____ • Holidays: _____
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* Facility solid waste operations will continue during construction as listed above.
Construction activities will be limited to 8:00 AM to 8:00 PM Monday through Friday and from 9:00 AM to 8:00 PM on Saturday.

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ☒ Yes ☐ No If yes: i. Provide details including sources, time of day and duration: Some elevated sound levels may be anticipated during construction between 7 AM and 6 PM. Sound levels associated with facility operations will be reduced upon completion as material handling will be completely handled inside the facility building.	☒ Yes ☐ No
ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? ☐ Yes ☒ No Describe: _____	☐ Yes ☒ No
n. Will the proposed action have outdoor lighting? ☒ Yes ☐ No If yes: i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures: The facility currently has fixed lighting which will remain. The maximum height of free-standing fixtures will be 30 feet and will be low glare fixtures directed toward the ground. Nearest occupied structures (commercial) are approx. 100 feet away. Most lighting will not be on when facility is not operating.	☒ Yes ☐ No
ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☒ No Describe: _____	☐ Yes ☒ No
o. Does the proposed action have the potential to produce odors for more than one hour per day? ☒ Yes ☐ No If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____ While municipal solid waste has the potential to generate odors, operations will be indoors and the facility will be equipped with an odor control misting system. Waste will be transferred and removed from the facility in a timely manner further eliminating odor generation potential.	☒ Yes ☐ No
p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☒ Yes ☐ No If Yes: i. Product(s) to be stored <u>diesel fuel, used oil, motor oil, and hydraulic oil</u> ii. Volume(s) _____ per unit time _____ (e.g., month, year) iii. Generally, describe the proposed storage facilities: _____ No new storage tanks are proposed. Existing aboveground tanks for vehicle maintenance and fueling are to remain.	☒ Yes ☐ No
q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☒ Yes ☐ No If Yes: i. Describe proposed treatment(s): <u>The Facility currently and will continue to retain the services of a pest contractor as required by the Facility's NYSDEC SWMF Permit.</u> _____ _____	☒ Yes ☐ No
ii. Will the proposed action use Integrated Pest Management Practices? ☒ Yes ☐ No	☒ Yes ☐ No
r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☒ Yes ☐ No If Yes: i. Describe any solid waste(s) to be generated during construction or operation of the facility: • Construction: _____ Estimated <u>1</u> tons per _____ week (unit of time) • Operation : _____ <u>0.2</u> tons per _____ week (unit of time) ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste: • Construction: <u>To the extent practicable, any incidental waste material generated during construction will be recycled.</u> • Operation: <u>The facility recycles office waste and other waste generated on site. The facility removes steel and other large recognizable recyclables from waste brought to the facility. Source separated recyclable materials are shipped off site for processing.</u> iii. Proposed disposal methods/facilities for solid waste generated on-site: • Construction: <u>Solid waste is trucked to permitted landfill facilities.</u> • Operation: <u>Solid waste is trucked to permitted landfill facilities.</u>	☒ Yes ☐ No

s. Does the proposed action include construction or modification of a solid waste management facility? ☒ Yes ☐ No
 If Yes:
 i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): This project involves the construction of an addition to the existing transfer station.
 ii. Anticipated rate of disposal/processing:
 • 17,190 Tons/month, if transfer or other non-combustion/thermal treatment, or
 • _____ Tons/hour, if combustion or thermal treatment
 iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☒ No
 If Yes:
 i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

 ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

 iii. Specify amount to be handled or generated _____ tons/month
 iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

 v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☐ No
 If Yes: provide name and location of facility: _____

 If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

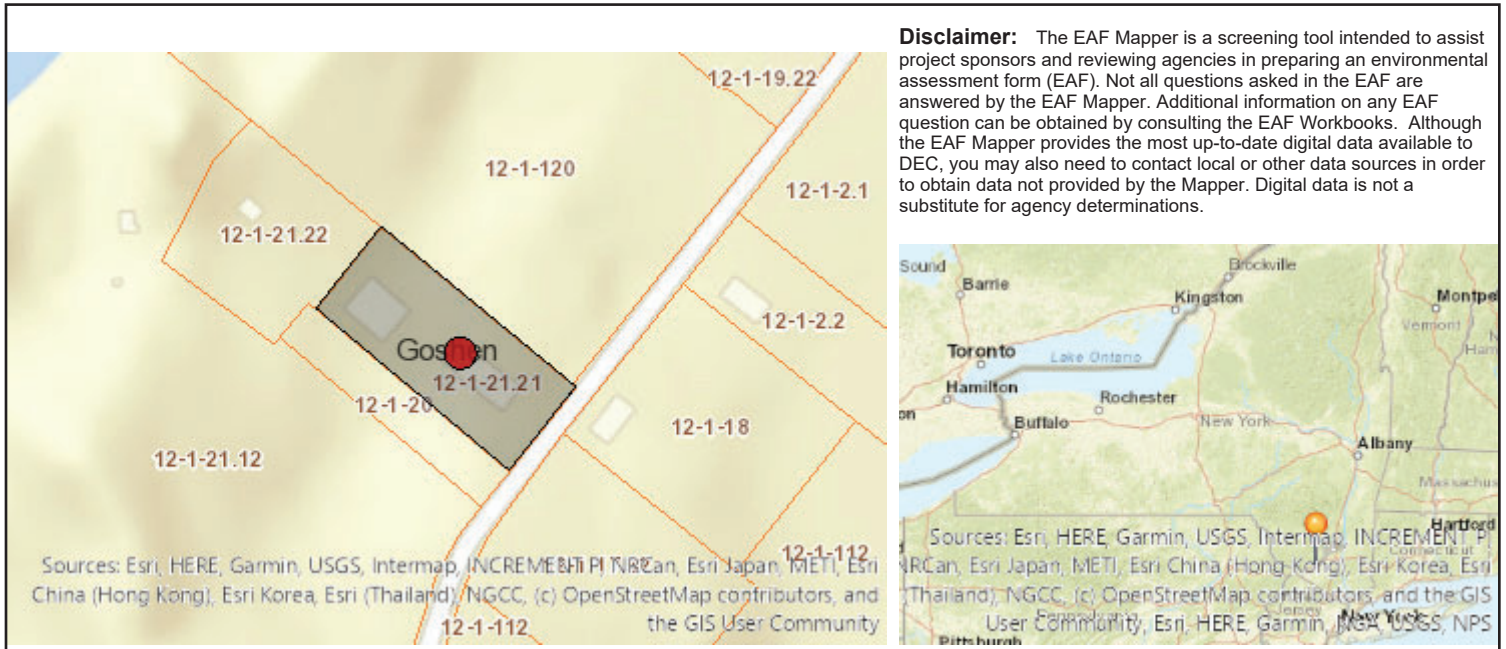
E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site			
a. Existing land uses. i. Check all uses that occur on, adjoining and near the project site. ☐ Urban ☒ Industrial ☒ Commercial ☐ Residential (suburban) ☐ Rural (non-farm) ☐ Forest ☐ Agriculture ☐ Aquatic ☒ Other (specify): <u>Office Mixed Use</u>			
ii. If mix of uses, generally describe: <u>Properties to the east of Hartley Road are zoned Commercial / Office Mixed Use. Properties to the north, west and south are zoned Industrial.</u>			
b. Land uses and coverytypes on the project site.			
Land use or Coverytype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	2.38	2.38	0
• Forested	0.89	0.89	0
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	1.58	1.58	0
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	0
• Surface water features (lakes, ponds, streams, rivers, etc.)	0	0	0
• Wetlands (freshwater or tidal)	0	0	0
• Non-vegetated (bare rock, earth or fill)	0.26	0.26	0
• Other Describe: _____ _____			

c. Is the project site presently used by members of the community for public recreation? <i>i. If Yes: explain:</i> _____	☐ Yes ☒ No
d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? If Yes, <i>i. Identify Facilities:</i> _____ _____	☐ Yes ☒ No
e. Does the project site contain an existing dam? If Yes: <i>i. Dimensions of the dam and impoundment:</i> • Dam height: _____ feet • Dam length: _____ feet • Surface area: _____ acres • Volume impounded: _____ gallons OR acre-feet <i>ii. Dam's existing hazard classification:</i> _____ <i>iii. Provide date and summarize results of last inspection:</i> _____ _____	☐ Yes ☒ No
f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? If Yes: <i>i. Has the facility been formally closed?</i> • If yes, cite sources/documentation: _____ <i>ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:</i> <u>The project is within the current solid waste management facility boundary.</u> _____ <i>iii. Describe any development constraints due to the prior solid waste activities:</i> _____ <u>None. Addition is within the current solid waste management facility boundary.</u>	☒ Yes ☐ No ☐ Yes ☒ No
g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? If Yes: <i>i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:</i> _____ _____	☐ Yes ☒ No
h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? If Yes: <i>i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply:</i> ☒ Yes – Spills Incidents database ☐ Yes – Environmental Site Remediation database ☐ Neither database Provide DEC ID number(s): 0100169, 0402719 Provide DEC ID number(s): _____ <i>ii. If site has been subject of RCRA corrective activities, describe control measures:</i> _____ <u>Not Applicable.</u> <i>iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database?</i> If yes, provide DEC ID number(s): 336016 <i>iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):</i> <u>The Old Al Turi Landfill in the State Superfund Program. Class 4 which is assigned to sites that have been properly closed but requires continued site management consisting of a deed restriction and a groundwater use restriction.</u>	☒ Yes ☐ No ☒ Yes ☐ No ☒ Yes ☐ No

v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☒ No													
• If yes, DEC site ID number: _____ • Describe the type of institutional control (e.g., deed restriction or easement): _____ • Describe any use limitations: _____ • Describe any engineering controls: _____ • Will the project affect the institutional or engineering controls in place? ☐ Yes ☐ No • Explain: _____													
E.2. Natural Resources On or Near Project Site													
a. What is the average depth to bedrock on the project site? _____ > 50 feet													
b. Are there bedrock outcroppings on the project site? ☐ Yes ☒ No If Yes, what proportion of the site is comprised of bedrock outcroppings? _____ %													
c. Predominant soil type(s) present on project site: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Allard silt loam</td> <td style="width: 40%; text-align: right;">39.1 %</td> </tr> <tr> <td>Hoosic gravelly sand loam</td> <td style="text-align: right;">24.5 %</td> </tr> <tr> <td>Riverhead sandy loam, 9.1%</td> <td style="text-align: right;">27.4 %</td> </tr> <tr> <td>Mardin gravelly silt loam</td> <td style="text-align: right;"></td> </tr> </table>		Allard silt loam	39.1 %	Hoosic gravelly sand loam	24.5 %	Riverhead sandy loam, 9.1%	27.4 %	Mardin gravelly silt loam					
Allard silt loam	39.1 %												
Hoosic gravelly sand loam	24.5 %												
Riverhead sandy loam, 9.1%	27.4 %												
Mardin gravelly silt loam													
d. What is the average depth to the water table on the project site? Average: _____ 20 feet													
e. Drainage status of project site soils: ☒ Well Drained: _____ 100 % of site ☐ Moderately Well Drained: _____ % of site ☐ Poorly Drained _____ % of site													
f. Approximate proportion of proposed action site with slopes: ☒ 0-10%: _____ 95 % of site ☒ 10-15%: _____ 5 % of site ☐ 15% or greater: _____ % of site													
g. Are there any unique geologic features on the project site? ☐ Yes ☒ No If Yes, describe: _____													
h. Surface water features.													
i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☐ Yes ☒ No													
ii. Do any wetlands or other waterbodies adjoin the project site? ☐ Yes ☒ No													
If Yes to either <i>i</i> or <i>ii</i> , continue. If No, skip to E.2.i.													
iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☐ Yes ☒ No													
iv. For each identified regulated wetland and waterbody on the project site, provide the following information: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">• Streams:</td> <td style="width: 50%;">Name _____</td> <td style="width: 40%;">Classification _____</td> </tr> <tr> <td>• Lakes or Ponds:</td> <td>Name _____</td> <td>Classification _____</td> </tr> <tr> <td>• Wetlands:</td> <td>Name _____</td> <td>Approximate Size _____</td> </tr> <tr> <td>• Wetland No. (if regulated by DEC)</td> <td colspan="2">_____</td> </tr> </table>		• Streams:	Name _____	Classification _____	• Lakes or Ponds:	Name _____	Classification _____	• Wetlands:	Name _____	Approximate Size _____	• Wetland No. (if regulated by DEC)	_____	
• Streams:	Name _____	Classification _____											
• Lakes or Ponds:	Name _____	Classification _____											
• Wetlands:	Name _____	Approximate Size _____											
• Wetland No. (if regulated by DEC)	_____												
v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☐ Yes ☒ No If yes, name of impaired water body/bodies and basis for listing as impaired: _____													
i. Is the project site in a designated Floodway? ☐ Yes ☒ No													
j. Is the project site in the 100-year Floodplain? ☐ Yes ☒ No													
k. Is the project site in the 500-year Floodplain? ☐ Yes ☒ No													
l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☒ Yes ☐ No If Yes:													
i. Name of aquifer: Principal Aquifer _____													

m. Identify the predominant wildlife species that occupy or use the project site: _____ Various bird species _____ Deer _____ Squirrels _____ Rabbit _____	
n. Does the project site contain a designated significant natural community? ☐ Yes ☒ No If Yes: i. Describe the habitat/community (composition, function, and basis for designation): _____ ii. Source(s) of description or evaluation: _____ iii. Extent of community/habitat: • Currently: _____ acres • Following completion of project as proposed: _____ acres • Gain or loss (indicate + or -): _____ acres	
o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☐ Yes ☒ No If Yes: i. Species and listing (endangered or threatened): _____ _____ _____	
p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐ Yes ☒ No If Yes: i. Species and listing: _____ _____ _____	
q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐ Yes ☒ No If yes, give a brief description of how the proposed action may affect that use: _____ _____ _____	
E.3. Designated Public Resources On or Near Project Site	
a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐ Yes ☒ No If Yes, provide county plus district name/number: _____	
b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☒ No i. If Yes: acreage(s) on project site: _____ ii. Source(s) of soil rating(s): _____	
c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☒ No If Yes: i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____ _____ _____	
d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐ Yes ☒ No If Yes: i. CEA name: _____ ii. Basis for designation: _____ iii. Designating agency and date: _____	

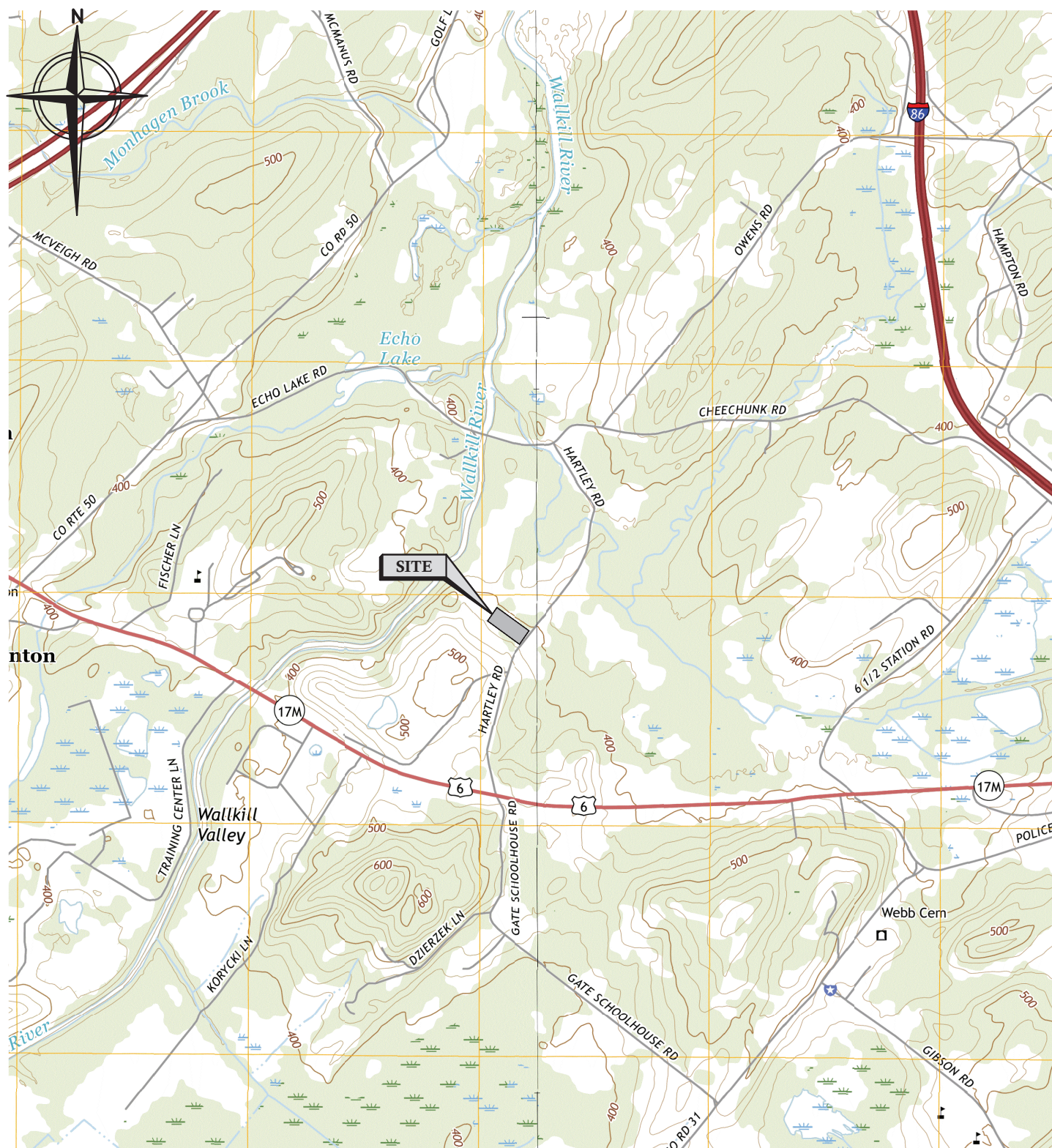


Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.



B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	336016
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	No
E.2.h.ii [Surface Water Features]	No
E.2.h.iii [Surface Water Features]	No
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	No
E.2.k. [500 Year Floodplain]	No
E.2.l. [Aquifers]	Yes
E.2.l. [Aquifer Names]	Principal Aquifer
E.2.n. [Natural Communities]	No

E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No



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SOURCE MAPPING NOTES:

BACKGROUND SOURCE MAPPING COMPILED FROM U.S. GEOLOGICAL SURVEY 7-1/2 MINUTE TOPOGRAPHIC QUADRANGLE MAP IMAGERY FOR GOSHEN (2016), AND MIDDLETOWN (2016).

Unauthorized alteration or addition to this plan bearing a licensed professional's seal is a violation of Section 7209, Sub-Division 2, of the New York Education Law. Only copies from the original of this plan marked with an original professional's seal shall be considered to be valid true copies.



PREPARED BY:
CORNERSTONE ENGINEERING AND GEOLOGY, PLLC

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IWS TRANSFER SYSTEMS OF NY, INC.
GOSHEN TRANSFER STATION
95 HARTLEY ROAD, GOSHEN, NEW YORK 10924

SITE LOCATION MAP

FIGURE NO.

1

PROJECT NO.
4233429

Full Environmental Assessment Form
Part 2 - Identification of Potential Project Impacts

Agency Use Only [If applicable]

Project : _____

Date : _____

Part 2 is to be completed by the lead agency. Part 2 is designed to help the lead agency inventory all potential resources that could be affected by a proposed project or action. We recognize that the lead agency's reviewer(s) will not necessarily be environmental professionals. So, the questions are designed to walk a reviewer through the assessment process by providing a series of questions that can be answered using the information found in Part 1. To further assist the lead agency in completing Part 2, the form identifies the most relevant questions in Part 1 that will provide the information needed to answer the Part 2 question. When Part 2 is completed, the lead agency will have identified the relevant environmental areas that may be impacted by the proposed activity.

If the lead agency is a state agency **and** the action is in any Coastal Area, complete the Coastal Assessment Form before proceeding with this assessment.

Tips for completing Part 2:

- Review all of the information provided in Part 1.
- Review any application, maps, supporting materials and the Full EAF Workbook.
- Answer each of the 18 questions in Part 2.
- If you answer “**Yes**” to a numbered question, please complete all the questions that follow in that section.
- If you answer “**No**” to a numbered question, move on to the next numbered question.
- Check appropriate column to indicate the anticipated size of the impact.
- Proposed projects that would exceed a numeric threshold contained in a question should result in the reviewing agency checking the box “Moderate to large impact may occur.”
- The reviewer is not expected to be an expert in environmental analysis.
- If you are not sure or undecided about the size of an impact, it may help to review the sub-questions for the general question and consult the workbook.
- When answering a question consider all components of the proposed activity, that is, the “whole action”.
- Consider the possibility for long-term and cumulative impacts as well as direct impacts.
- Answer the question in a reasonable manner considering the scale and context of the project.

1. Impact on Land Proposed action may involve construction on, or physical alteration of, the land surface of the proposed site. (See Part 1. D.1) <i>If “Yes”, answer questions a - j. If “No”, move on to Section 2.</i>				☐ NO	☒ YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur		
a. The proposed action may involve construction on land where depth to water table is less than 3 feet.	E2d	☒	☐		
b. The proposed action may involve construction on slopes of 15% or greater.	E2f	☒	☐		
c. The proposed action may involve construction on land where bedrock is exposed, or generally within 5 feet of existing ground surface.	E2a	☒	☐		
d. The proposed action may involve the excavation and removal of more than 1,000 tons of natural material.	D2a	☒	☐		
e. The proposed action may involve construction that continues for more than one year or in multiple phases.	D1e	☒	☐		
f. The proposed action may result in increased erosion, whether from physical disturbance or vegetation removal (including from treatment by herbicides).	D2e, D2q	☒	☐		
g. The proposed action is, or may be, located within a Coastal Erosion hazard area.	B1i	☒	☐		
h. Other impacts: _____ _____		☐	☐		

2. Impact on Geological Features

The proposed action may result in the modification or destruction of, or inhibit access to, any unique or unusual land forms on the site (e.g., cliffs, dunes, minerals, fossils, caves). (See Part 1. E.2.g)

☒ NO☐ YES

If "Yes", answer questions a - c. If "No", move on to Section 3.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Identify the specific land form(s) attached: _____ _____	E2g	☐	☐
b. The proposed action may affect or is adjacent to a geological feature listed as a registered National Natural Landmark. Specific feature: _____	E3c	☐	☐
c. Other impacts: _____ _____		☐	☐

3. Impacts on Surface Water

The proposed action may affect one or more wetlands or other surface water bodies (e.g., streams, rivers, ponds or lakes). (See Part 1. D.2, E.2.h)

☐ NO☒ YES

If "Yes", answer questions a - l. If "No", move on to Section 4.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may create a new water body.	D2b, D1h	☒	☐
b. The proposed action may result in an increase or decrease of over 10% or more than a 10 acre increase or decrease in the surface area of any body of water.	D2b	☒	☐
c. The proposed action may involve dredging more than 100 cubic yards of material from a wetland or water body.	D2a	☒	☐
d. The proposed action may involve construction within or adjoining a freshwater or tidal wetland, or in the bed or banks of any other water body.	E2h	☒	☐
e. The proposed action may create turbidity in a waterbody, either from upland erosion, runoff or by disturbing bottom sediments.	D2a, D2h	☒	☐
f. The proposed action may include construction of one or more intake(s) for withdrawal of water from surface water.	D2c	☒	☐
g. The proposed action may include construction of one or more outfall(s) for discharge of wastewater to surface water(s).	D2d	☒	☐
h. The proposed action may cause soil erosion, or otherwise create a source of stormwater discharge that may lead to siltation or other degradation of receiving water bodies.	D2e	☒	☐
i. The proposed action may affect the water quality of any water bodies within or downstream of the site of the proposed action.	E2h	☒	☐
j. The proposed action may involve the application of pesticides or herbicides in or around any water body.	D2q, E2h	☒	☐
k. The proposed action may require the construction of new, or expansion of existing, wastewater treatment facilities.	D1a, D2d	☒	☐

l. Other impacts: _____ _____		☐	☐
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4. Impact on groundwater The proposed action may result in new or additional use of ground water, or may have the potential to introduce contaminants to ground water or an aquifer. (See Part 1. D.2.a, D.2.c, D.2.d, D.2.p, D.2.q, D.2.t) <i>If "Yes", answer questions a - h. If "No", move on to Section 5.</i>			
		☒ NO	☐ YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may require new water supply wells, or create additional demand on supplies from existing water supply wells.	D2c	☐	☐
b. Water supply demand from the proposed action may exceed safe and sustainable withdrawal capacity rate of the local supply or aquifer. Cite Source: _____	D2c	☐	☐
c. The proposed action may allow or result in residential uses in areas without water and sewer services.	D1a, D2c	☐	☐
d. The proposed action may include or require wastewater discharged to groundwater.	D2d, E2l	☐	☐
e. The proposed action may result in the construction of water supply wells in locations where groundwater is, or is suspected to be, contaminated.	D2c, E1f, E1g, E1h	☐	☐
f. The proposed action may require the bulk storage of petroleum or chemical products over ground water or an aquifer.	D2p, E2l	☐	☐
g. The proposed action may involve the commercial application of pesticides within 100 feet of potable drinking water or irrigation sources.	E2h, D2q, E2l, D2c	☐	☐
h. Other impacts: _____ _____		☐	☐

5. Impact on Flooding The proposed action may result in development on lands subject to flooding. (See Part 1. E.2) <i>If "Yes", answer questions a - g. If "No", move on to Section 6.</i>			
		☒ NO	☐ YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in development in a designated floodway.	E2i	☐	☐
b. The proposed action may result in development within a 100 year floodplain.	E2j	☐	☐
c. The proposed action may result in development within a 500 year floodplain.	E2k	☐	☐
d. The proposed action may result in, or require, modification of existing drainage patterns.	D2b, D2e	☐	☐
e. The proposed action may change flood water flows that contribute to flooding.	D2b, E2i, E2j, E2k	☐	☐
f. If there is a dam located on the site of the proposed action, is the dam in need of repair, or upgrade?	E1e	☐	☐

g. Other impacts: _____ _____		☐	☐
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6. Impacts on Air The proposed action may include a state regulated air emission source. (See Part 1. D.2.f., D.2.h, D.2.g) <i>If "Yes", answer questions a - f. If "No", move on to Section 7.</i>			
		☒ NO	☐ YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. If the proposed action requires federal or state air emission permits, the action may also emit one or more greenhouse gases at or above the following levels:			
i. More than 1000 tons/year of carbon dioxide (CO ₂)	D2g	☐	☐
ii. More than 3.5 tons/year of nitrous oxide (N ₂ O)	D2g	☐	☐
iii. More than 1000 tons/year of carbon equivalent of perfluorocarbons (PFCs)	D2g	☐	☐
iv. More than .045 tons/year of sulfur hexafluoride (SF ₆)	D2g	☐	☐
v. More than 1000 tons/year of carbon dioxide equivalent of hydrochloroflourocarbons (HFCs) emissions	D2g	☐	☐
vi. 43 tons/year or more of methane	D2h	☐	☐
b. The proposed action may generate 10 tons/year or more of any one designated hazardous air pollutant, or 25 tons/year or more of any combination of such hazardous air pollutants.	D2g	☐	☐
c. The proposed action may require a state air registration, or may produce an emissions rate of total contaminants that may exceed 5 lbs. per hour, or may include a heat source capable of producing more than 10 million BTU's per hour.	D2f, D2g	☐	☐
d. The proposed action may reach 50% of any of the thresholds in "a" through "c", above.	D2g	☐	☐
e. The proposed action may result in the combustion or thermal treatment of more than 1 ton of refuse per hour.	D2s	☐	☐
f. Other impacts: _____ _____		☐	☐

7. Impact on Plants and Animals The proposed action may result in a loss of flora or fauna. (See Part 1. E.2. m.-q.) <i>If "Yes", answer questions a - j. If "No", move on to Section 8.</i>			
		☒ NO	☐ YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may cause reduction in population or loss of individuals of any threatened or endangered species, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2o	☐	☐
b. The proposed action may result in a reduction or degradation of any habitat used by any rare, threatened or endangered species, as listed by New York State or the federal government.	E2o	☐	☐
c. The proposed action may cause reduction in population, or loss of individuals, of any species of special concern or conservation need, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2p	☐	☐
d. The proposed action may result in a reduction or degradation of any habitat used by any species of special concern and conservation need, as listed by New York State or the Federal government.	E2p	☐	☐

e. The proposed action may diminish the capacity of a registered National Natural Landmark to support the biological community it was established to protect.	E3c	☐	☐
f. The proposed action may result in the removal of, or ground disturbance in, any portion of a designated significant natural community. Source: _____	E2n	☐	☐
g. The proposed action may substantially interfere with nesting/breeding, foraging, or over-wintering habitat for the predominant species that occupy or use the project site.	E2m	☐	☐
h. The proposed action requires the conversion of more than 10 acres of forest, grassland or any other regionally or locally important habitat. Habitat type & information source: _____	E1b	☐	☐
i. Proposed action (commercial, industrial or recreational projects, only) involves use of herbicides or pesticides.	D2q	☐	☐
j. Other impacts: _____		☐	☐

8. Impact on Agricultural Resources The proposed action may impact agricultural resources. (See Part 1. E.3.a. and b.) ☒ NO ☐ YES <i>If "Yes", answer questions a - h. If "No", move on to Section 9.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System.	E2c, E3b	☐	☐
b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc).	E1a, E1b	☐	☐
c. The proposed action may result in the excavation or compaction of the soil profile of active agricultural land.	E3b	☐	☐
d. The proposed action may irreversibly convert agricultural land to non-agricultural uses, either more than 2.5 acres if located in an Agricultural District, or more than 10 acres if not within an Agricultural District.	E1b, E3a	☐	☐
e. The proposed action may disrupt or prevent installation of an agricultural land management system.	E1 a, E1b	☐	☐
f. The proposed action may result, directly or indirectly, in increased development potential or pressure on farmland.	C2c, C3, D2c, D2d	☐	☐
g. The proposed project is not consistent with the adopted municipal Farmland Protection Plan.	C2c	☐	☐
h. Other impacts: _____		☐	☐

9. Impact on Aesthetic Resources The land use of the proposed action are obviously different from, or are in sharp contrast to, current land use patterns between the proposed project and a scenic or aesthetic resource. (Part 1. E.1.a, E.1.b, E.3.h.) <i>If "Yes", answer questions a - g. If "No", go to Section 10.</i>			
		☒ NO	☐ YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Proposed action may be visible from any officially designated federal, state, or local scenic or aesthetic resource.	E3h	☐	☐
b. The proposed action may result in the obstruction, elimination or significant screening of one or more officially designated scenic views.	E3h, C2b	☐	☐
c. The proposed action may be visible from publicly accessible vantage points: i. Seasonally (e.g., screened by summer foliage, but visible during other seasons) ii. Year round	E3h	☐ ☐	☐ ☐
d. The situation or activity in which viewers are engaged while viewing the proposed action is: i. Routine travel by residents, including travel to and from work ii. Recreational or tourism based activities	E3h E2q, E1c	☐ ☐	☐ ☐
e. The proposed action may cause a diminishment of the public enjoyment and appreciation of the designated aesthetic resource.	E3h	☐	☐
f. There are similar projects visible within the following distance of the proposed project: 0-1/2 mile 1/2 -3 mile 3-5 mile 5+ mile	D1a, E1a, D1f, D1g	☐	☐
g. Other impacts: _____ _____		☐	☐

10. Impact on Historic and Archeological Resources The proposed action may occur in or adjacent to a historic or archaeological resource. (Part 1. E.3.e, f. and g.) <i>If "Yes", answer questions a - e. If "No", go to Section 11.</i>			
		☐ NO	☒ YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may occur wholly or partially within, or substantially contiguous to, any buildings, archaeological site or district which is listed on the National or State Register of Historical Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places.	E3e	☒	☐
b. The proposed action may occur wholly or partially within, or substantially contiguous to, an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory.	E3f	☒	☐
c. The proposed action may occur wholly or partially within, or substantially contiguous to, an archaeological site not included on the NY SHPO inventory. Source: _____	E3g	☒	☐

d. Other impacts: _____ _____		☒	☐
If any of the above (a-d) are answered "Moderate to large impact may occur", continue with the following questions to help support conclusions in Part 3:			
i. The proposed action may result in the destruction or alteration of all or part of the site or property.	E3e, E3g, E3f	☐	☐
ii. The proposed action may result in the alteration of the property's setting or integrity.	E3e, E3f, E3g, E1a, E1b	☐	☐
iii. The proposed action may result in the introduction of visual elements which are out of character with the site or property, or may alter its setting.	E3e, E3f, E3g, E3h, C2, C3	☐	☐

11. Impact on Open Space and Recreation The proposed action may result in a loss of recreational opportunities or a reduction of an open space resource as designated in any adopted municipal open space plan. (See Part 1. C.2.c, E.1.c., E.2.q.) <i>If "Yes", answer questions a - e. If "No", go to Section 12.</i>			
		☒ NO	☐ YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in an impairment of natural functions, or "ecosystem services", provided by an undeveloped area, including but not limited to stormwater storage, nutrient cycling, wildlife habitat.	D2e, E1b E2h, E2m, E2o, E2n, E2p	☐	☐
b. The proposed action may result in the loss of a current or future recreational resource.	C2a, E1c, C2c, E2q	☐	☐
c. The proposed action may eliminate open space or recreational resource in an area with few such resources.	C2a, C2c E1c, E2q	☐	☐
d. The proposed action may result in loss of an area now used informally by the community as an open space resource.	C2c, E1c	☐	☐
e. Other impacts: _____ _____		☐	☐

12. Impact on Critical Environmental Areas The proposed action may be located within or adjacent to a critical environmental area (CEA). (See Part 1. E.3.d) <i>If "Yes", answer questions a - c. If "No", go to Section 13.</i>			
		☒ NO	☐ YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in a reduction in the quantity of the resource or characteristic which was the basis for designation of the CEA.	E3d	☐	☐
b. The proposed action may result in a reduction in the quality of the resource or characteristic which was the basis for designation of the CEA.	E3d	☐	☐
c. Other impacts: _____ _____		☐	☐

13. Impact on Transportation

The proposed action may result in a change to existing transportation systems.

☐ NO☒ YES

(See Part 1. D.2.j)

If "Yes", answer questions a - f. If "No", go to Section 14.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Projected traffic increase may exceed capacity of existing road network.	D2j	☒	☐
b. The proposed action may result in the construction of paved parking area for 500 or more vehicles.	D2j	☒	☐
c. The proposed action will degrade existing transit access.	D2j	☒	☐
d. The proposed action will degrade existing pedestrian or bicycle accommodations.	D2j	☒	☐
e. The proposed action may alter the present pattern of movement of people or goods.	D2j	☒	☐
f. Other impacts: _____		☐	☐

14. Impact on Energy

The proposed action may cause an increase in the use of any form of energy.

☒ NO☐ YES

(See Part 1. D.2.k)

If "Yes", answer questions a - e. If "No", go to Section 15.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action will require a new, or an upgrade to an existing, substation.	D2k	☐	☐
b. The proposed action will require the creation or extension of an energy transmission or supply system to serve more than 50 single or two-family residences or to serve a commercial or industrial use.	D1f, D1q, D2k	☐	☐
c. The proposed action may utilize more than 2,500 MWhrs per year of electricity.	D2k	☐	☐
d. The proposed action may involve heating and/or cooling of more than 100,000 square feet of building area when completed.	D1g	☐	☐
e. Other Impacts: _____			

15. Impact on Noise, Odor, and Light

The proposed action may result in an increase in noise, odors, or outdoor lighting.

☐ NO☒ YES

(See Part 1. D.2.m., n., and o.)

If "Yes", answer questions a - f. If "No", go to Section 16.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may produce sound above noise levels established by local regulation.	D2m	☒	☐
b. The proposed action may result in blasting within 1,500 feet of any residence, hospital, school, licensed day care center, or nursing home.	D2m, E1d	☒	☐
c. The proposed action may result in routine odors for more than one hour per day.	D2o	☒	☐

d. The proposed action may result in light shining onto adjoining properties.	D2n	☒	☐
e. The proposed action may result in lighting creating sky-glow brighter than existing area conditions.	D2n, E1a	☒	☐
f. Other impacts: _____ _____		☐	☐

16. Impact on Human Health

The proposed action may have an impact on human health from exposure to new or existing sources of contaminants. (See Part 1.D.2.q., E.1. d. f. g. and h.)

☐ NO

☒ YES

If "Yes", answer questions a - m. If "No", go to Section 17.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action is located within 1500 feet of a school, hospital, licensed day care center, group home, nursing home or retirement community.	E1d	☒	☐
b. The site of the proposed action is currently undergoing remediation.	E1g, E1h	☒	☐
c. There is a completed emergency spill remediation, or a completed environmental site remediation on, or adjacent to, the site of the proposed action.	E1g, E1h	☒	☐
d. The site of the action is subject to an institutional control limiting the use of the property (e.g., easement or deed restriction).	E1g, E1h	☒	☐
e. The proposed action may affect institutional control measures that were put in place to ensure that the site remains protective of the environment and human health.	E1g, E1h	☒	☐
f. The proposed action has adequate control measures in place to ensure that future generation, treatment and/or disposal of hazardous wastes will be protective of the environment and human health.	D2t	☒	☐
g. The proposed action involves construction or modification of a solid waste management facility.	D2q, E1f	☒	☐
h. The proposed action may result in the unearthing of solid or hazardous waste.	D2q, E1f	☒	☐
i. The proposed action may result in an increase in the rate of disposal, or processing, of solid waste.	D2r, D2s	☒	☐
j. The proposed action may result in excavation or other disturbance within 2000 feet of a site used for the disposal of solid or hazardous waste.	E1f, E1g E1h	☒	☐
k. The proposed action may result in the migration of explosive gases from a landfill site to adjacent off site structures.	E1f, E1g	☒	☐
l. The proposed action may result in the release of contaminated leachate from the project site.	D2s, E1f, D2r	☒	☐
m. Other impacts: _____ _____		☐	☐

17. Consistency with Community Plans The proposed action is not consistent with adopted land use plans. (See Part 1. C.1, C.2. and C.3.) <i>If "Yes", answer questions a - h. If "No", go to Section 18.</i>			
		☐ NO	☒ YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action's land use components may be different from, or in sharp contrast to, current surrounding land use pattern(s).	C2, C3, D1a E1a, E1b	☒	☐
b. The proposed action will cause the permanent population of the city, town or village in which the project is located to grow by more than 5%.	C2	☒	☐
c. The proposed action is inconsistent with local land use plans or zoning regulations.	C2, C2, C3	☒	☐
d. The proposed action is inconsistent with any County plans, or other regional land use plans.	C2, C2	☒	☐
e. The proposed action may cause a change in the density of development that is not supported by existing infrastructure or is distant from existing infrastructure.	C3, D1c, D1d, D1f, D1d, E1b	☒	☐
f. The proposed action is located in an area characterized by low density development that will require new or expanded public infrastructure.	C4, D2c, D2d D2j	☒	☐
g. The proposed action may induce secondary development impacts (e.g., residential or commercial development not included in the proposed action)	C2a	☒	☐
h. Other: _____ _____		☐	☐

18. Consistency with Community Character The proposed project is inconsistent with the existing community character. (See Part 1. C.2, C.3, D.2, E.3) <i>If "Yes", answer questions a - g. If "No", proceed to Part 3.</i>			
		☒ NO	☐ YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community.	E3e, E3f, E3g	☐	☐
b. The proposed action may create a demand for additional community services (e.g. schools, police and fire)	C4	☐	☐
c. The proposed action may displace affordable or low-income housing in an area where there is a shortage of such housing.	C2, C3, D1f D1g, E1a	☐	☐
d. The proposed action may interfere with the use or enjoyment of officially recognized or designated public resources.	C2, E3	☐	☐
e. The proposed action is inconsistent with the predominant architectural scale and character.	C2, C3	☐	☐
f. Proposed action is inconsistent with the character of the existing natural landscape.	C2, C3 E1a, E1b E2g, E2h	☐	☐
g. Other impacts: _____ _____		☐	☐



September 25, 2024

Mr. Joseph Betro, Town Supervisor
Goshen Town Board
41 Webster Avenue - 2nd Floor
Goshen, NY 1092

Re: IWS Goshen Transfer Station – Chapter 80-B Solid Waste Management Application
95 Hartley Road, Goshen, New York

Dear Mr. Betro and Town Board:

On behalf of I.W.S. Transfer Systems of N.Y., Inc. (IWS) Cornerstone Engineering and Geology, PLLC (Cornerstone) is pleased to provide the following Full Environmental Assessment Form (FEAF) Part 3 Evaluation of the Magnitude and Importance of the Project Impacts for the above referenced Facility located at 95 Hartley Road in Goshen. The responses below have been prepared to provide details and context to the FEAF Part 2 questions and boxes checked Yes with regards to the Identification of Potential Project Impacts.

1. Impact on Land

Yes was checked as the construction of the proposed addition and other Site improvements at the Facility will involve construction and an alteration to the project Site, virtually all of the disturbances will take place on areas of the Site that are currently paved. As a result, no impact will occur with respect to questions 1.a through 1.e and questions 1.g. and 1.h. Question 1.f states *“The proposed action may result in increased erosion, whether from physical disturbance or vegetation removal (including from treatment by herbicides)”*. The potential for erosion during construction is minimal. The only vegetation planned to be removed is associated with the increased curb cut which is being proposed to make it easier for tractor trailers turning right onto Hartley Road after being loaded and tarped in the proposed loadout tunnel. This will result in the removal approximately 283 square feet of existing vegetation. Additional vegetation disturbance is likely on the south side of the Addition to the existing Transfer Building during construction, however this area will be restored to existing conditions at the completion of construction. All other areas where construction will occur are currently paved and will not result in the loss of vegetation. In all cases where soil disturbance will occur, erosion control measures such as the placement of silt fence during construction will the risk of erosion. As such there is little risk of impact related to erosion.

3. Impacts on Surface Water

While we do not believe the proposed action will have any impact on any wetlands or surface water bodies, the proposed action will involve the disturbance of soil which could cause erosion. As a result, the Yes box is checked. The answer to questions 3.a through 3.g and 3.i through 3.l is no impact. Question 3.h states *“The proposed action may cause soil erosion, or otherwise create a source of stormwater discharge that may lead to siltation or other degradation of receiving water bodies.”* As indicated in the response to question 1, very little vegetation removal or disturbance will result from the proposed project and erosion control measures implemented prior to any soil disturbance to ensure sediments do not leave the construction area due to stormwater transport. While there are

no wetlands or other surface water bodies on Site or adjacent to the Site, most stormwater from the Facility, including precipitation that will fall on the proposed project's construction area, drains to the adjacent lot to the south. This lot is a low-lying area which acts as a stormwater infiltration basin. Any water that might discharge from this basin, will leave via a pipe under the Site that discharges to rip-rap before discharging to the Amy's Kitchen storm water collection system which then discharges into a large stormwater basin situated east of the Wallkill River. As such, there is no risk of stormwater resulting in siltation or other degradation of receiving water bodies.

10. Impact on Historic and Archaeological Resources

While the project Site was identified by NYSDEC as potentially *"wholly or partially within, or substantially contiguous to, an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory"* as stated in question 10.b, a letter from the New York State Office of Parks, Recreation and Historic Preservation dated June 6, 2023 stated that *"no properties, including archeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project"*. A copy of this letter is included as Attachment 12 of the attached Report. All of the other questions under Impact on Historic and Archaeological Resources are considered *"no impact"*. As such, no impact to historic or archaeological resources will occur as a result of this project.

13. Impact on Transportation

While project will not result in a change to existing transportation systems, question 13.1 states the *"Projected traffic increase may exceed capacity of existing road network"* and question D.2.j of Part 1 of the FEA asks *"Will the proposed action result in a substantial increase in traffic above present levels?"* The Facility operations has resulted in increased traffic since 2003 due to the increase in tonnage the Facility has handled based on the Permit issued by NYSDEC. While traffic has increased since 2003 associated with the Facility operations, the increase is minor, amounting to 96 truck trips per day. This has not negatively impacted traffic on Hartley Road or NYS Route 17M, particularly considering the overall traffic increase is unrelated to the Facility operations, where based on NYSDOT traffic data, the Annual Average Daily Traffic on Route 17M in the vicinity of Hartley Road was 17,320 vehicles per day in 2022. The answers to questions 13.b through 13.f is no impact.

15. Impact on Noise, Odor, and Light

The answer to question 15.a, which asks if the *"proposed action may produce sound above noise levels established by local regulation"*, is a small impact. During construction, sound levels may be somewhat elevated due to the construction activities. However, equipment used during construction will be equipped with required mufflers and construction activities will be limited to the hours of 8:00 AM to 8:00 PM Monday through Friday and 9:00 AM to 8:00 PM on Saturday. Operationally, IWS has conducted Sound Level Studies on a regular basis in accordance with the requirements of the Facility's NYSDEC Solid Waste Permit. These studies have demonstrated that sound levels from operations are at similar levels as background much of which is generated by traffic on Route 17M. Additionally, the Facility is located in the Industrial (I) zoning district with a number of other industrial business in the surrounding area, in addition to the Al Turi Landfill to the south. The nearest residential land use is more than 1,600 feet to the north on Hartley Road, adjacent to TAM Enterprises. To date, no noise complaints have been received by IWS for their Hartley Road Facility.

The answer to question 15.b is no impact as there will be no blasting involved with the proposed Facility modification. Additionally, none the potential sensitive receptors listed are located within 1,500 feet of the proposed project.

Question 15.c asks if the *"proposed action may result in routine odors for more than one hour per day."* While the Facility is a solid waste transfer station, it currently is and will continue to be equipped with an odor suppression

system. Additionally, solid waste is tipped and will continue to be tipped inside the transfer building and will be loaded into a transfer trailer that will be staged inside a loadout tunnel. Once fully loaded the transfer trailer will be tarped prior to exiting the transfer building. Additionally, to date IWS has not received any odor complaints for the Hartley Road Facility. As such, the answer to question 15.c is the action will result in no impact.

Questions 15.d and 15.e ask about the *“proposed action may result in light shining onto adjoining properties”* and if it *“may result in lighting creating sky-glow brighter than existing area conditions”*, respectively. The answer to both questions is that there will be a small impact as the Transfer Station Addition will increase the number of lights at the Facility. All lighting will be directed downward and shielded to limit any upward lighting impacts limiting *“sky-glow”*. As shown on Sheet No. 6, Site Lighting Plan of the Site Plan Application Drawings prepared for the Planning Board demonstrates the lack of impact to adjoining properties.

16. Impact on Human Health

The answer to question 16.c is yes, which asks if there *“is a completed emergency spill remediation, or a completed environmental site remediation on, or adjacent to, the site of the proposed action.”* The NYSDEC Spills database identified 2 spills at the Facility: Spill No. 0100169, a 25-gallon spill of hydraulic oil in April 2001 cleaned up and closed by NYSDEC on April 10, 2001; and Spill No. 0402719, a 45-gallon diesel spill from a vehicle in June 2004 that was closed by NYSDEC on June 14, 2004. The adjacent Al Turi Landfill is a closed inactive hazardous waste site which has also had 2 small petroleum spills reported to NYSDEC, both of which have been closed. Based on the size of these spills and the fact that they were cleaned up and closed by the New York State, and the fact that the adjacent landfill has been capped, no impact is anticipated as a result of the proposed action.

Question 16.g asks if the *“proposed action involves construction or modification of a solid waste management facility.”* While the answer is yes, the improvements to the Facility with the construction of the Addition will enable all tipping operations to be performed completely in the building improving conditions. While employees will still be in proximity to solid waste materials, Facility employees are well trained and are equipped with proper personal protective equipment. As such, any potential for impact on human health is small.

While the answer to question 16.i, which asks if the *“proposed action may result in an increase in the rate of disposal, or processing, of solid waste”*, is yes because while the 670 ton per day of waste material is greater than the volume permitted by the Town of Goshen in 2003, it is not an increase in material to be processed at the Facility over the tonnage permitted by the NYSDEC of up to 600 tons per day on municipal solid waste and construction and demolition debris and 70 tons per day of recyclables. As such, this is determined to have been a small impact.

Question 16.j asks if the *“proposed action may result in excavation or other disturbance within 2000 feet of a site used for the disposal of solid or hazardous waste.”* While the answer is yes as the Facility is approximately 200 feet from the toe of the closed Al Turi Landfill, the excavation work for the Transfer Station Addition will not encounter waste or groundwater impacts as the ground surface in the project area is 6 to 8 feet above the base of the low-lying area on the adjacent lot between the Site and the Landfill. NYSDEC website characterizes the Al Turi Landfill as having been *“capped with geo-membrane, a barrier protection layer of soil and topsoil capable of sustaining a vegetative cover.”* There is a gas collection which flares off gas when there is sufficient landfill gas being generated. A Record of Decision (ROD) was issued in March 1996 by NYSDEC that included capping the landfill *“in accordance with Part 360, a groundwater monitoring network was established and institutional controls in the form of a deed restriction were put in place. Construction of the remedy was completed in August 2001. A contingency plan to address any significant impact to the Wallkill River, also required by the ROD, is in place. The potential for soil vapor intrusion was evaluated by the NYSDOH and the NYSDEC, and no further actions were deemed necessary in July 2008. Site Geology and Hydrogeology: Site geology consists of three units. These are, from top to bottom: fill which is 10 to 12 feet thick inside landfill cap; alluvial sand and silt with a thickness of approximately 15 feet;*

and a till unit which is comprised of a very dense mixture of sand and silt with varied amounts of gravel and clay. Groundwater is encountered at a depth of approximately 10 to 55 feet below the ground surface (bgs). Shallow groundwater (upper 20 feet) beneath the site moves to the north, while deeper groundwater moves westward towards the Wallkill River.”

Prior to the completion of remediation investigations found the following:

“Soil - The following contaminants were detected in native soil below the fill material but did not exceed their respective soil cleanup objectives (SCOs): 1,2-dichloroethene at 0.015 parts per million (ppm), 1,1,1-trichloroethane at 0.008 ppm, toluene at 0.024 ppm, ethylbenzene at 0.004 ppm, and xylene at 0.010 ppm.

Sediments - There were no exceedances of any SCOs for any contaminant in the Wallkill River sediments collected upstream, adjacent to, and downstream of the site.

Groundwater - The following VOCs were detected at concentrations greater than their respective SCOs: dichlorodifluoromethane at a maximum concentration of 61 parts per billion (ppb), with an guidance value (GV) of 5 ppb; chloromethane at 15 ppb (5 ppb GV); vinyl chloride at 29 ppb (GV of 2 ppb); trichlorofluoromethane at 59 ppb (GV of 5 ppb); 1,1-dichloroethene at 22 ppb (GV of 5 ppb); 1,1-dichloroethane at 32 ppb (GV of 5 ppb); cis-1,2-dichloroethene at 22 ppb (GV of 5 ppb); trichloroethene at 6 ppb (GV of 5 ppb); and benzene at 18 ppb (GV of 0.7 ppb). The following metals were detected at concentrations greater than their respective GV: arsenic at a maximum concentration of 32.4 ppb (GV of 3 ppb); barium at 1,920 ppb (GV of 1,000 ppb); chromium at 111 ppb (GV of 50 ppb); lead at 202 ppb (GV of 25 ppb); and zinc at 548 ppb (GV of 300 ppb).”

The site environmental assessment states that the *“Remediation at the site is complete”* and that prior to remediation, the primary contaminants of concern were those listed above in groundwater. *“Remedial actions have successfully achieved the reduction of exposure to contaminants of concern within the landfill mass...”* and residual groundwater impacts are being managed under a Site Management Plan.

In 2022, several monitoring wells sampled for PFAS and 1,4-dioxane reported perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) at concentrations up to 25 and 12 parts per trillion (ppt), respectively, above the 10 ppt screening levels for groundwater, and 1,4-dioxane was reported at concentrations of up to 86 parts per billion (ppb), above its screening level of 1 ppb.

Attached please find a copy of the NYSDEC findings on the Closed AI Landfill which is identified a Class 4 site which identifies it as being *“a site that has been properly closed but that requires continued site management consisting of operation, maintenance and/or monitoring.”* Based on the NYSDEC summary and that no waste or groundwater will be encountered as a result of the proposed project, no impact to human health is anticipated from the excavation work associated with the proposed project.

The remaining questions (16.a, b, d, e, f, h, k, and l) will result in no impact as a result of the proposed project.

17. Consistency with Community Plans

Question 17.c asks if the *“proposed action is inconsistent with local land use plans or zoning regulations.”* While the Town of Goshen Code does not allow for new solid waste management facilities, the proposed action is an addition to an existing solid waste management facility that will improve its operation. The parcel, at 3 acres, is less than required 5 acres in the I zoning district, however it is a pre-existing non-conforming lot. Additionally, the existing structure and proposed addition are closer to the side yard lot line than allowed. The existing Transfer Building is a pre-existing non-conforming condition and the Zoning Board of Appeals (ZBA) has granted a variance for the location of the Transfer Building Addition. Given that the Facility is an existing the solid waste management facility, its location adjacent to a closed landfill, and the project’s approval by the Planning Board and the ZBA, it is believed

Mr. Joseph Betro, Town Supervisor
September 25, 2024

that the action will have no impact on local land use in the area. The proposed project will have no impact associated with the remaining questions (17. a, b, and d through f) in this section.

Based on the completion of the FEAF and with the submission of this Part 3 document, it is our opinion that the proposed Transfer Building Addition project and the permitting of the Facility to accept and process up to 670 tons of material as currently permitted by NYSDEC since 2006 will have no significant impact on the environment or surrounding area. We hope this information is helpful in the Board's determination as to the significance of the potential impacts associated with the proposed project.

Please feel free to contact me at (845) 695-0225 if you have any questions or require any additional information.

Sincerely,

CORNERSTONE ENGINEERING AND GEOLOGY, PLLC



Kristen M. Thordahl, P.E.
Project Engineer

cc. Frank Leva, Building Inspector
Broderick Knoell, Highway Superintendent
Kelly Naughton, Esq., Planning Board Attorney
Sean Hoffman, Planning Board Engineer
James Anderson, IWS

APPENDIX A-2: FINAL ADOPTED PART 2 EAF (3-27-2025)

Full Environmental Assessment Form
Part 2 - Identification of Potential Project Impacts

Agency Use Only [If applicable]

Project : IWS - Chapter 80B permit

Date : March 27, 2025

Part 2 is to be completed by the lead agency. [Part 2 is designed to help the lead agency inventory all potential resources that could be affected by a proposed project or action] We recognize that the lead agency's reviewer(s) will not necessarily be environmental professionals. So, the questions are designed to walk a reviewer through the assessment process by providing a series of questions that can be answered using the information found in Part 1. To further assist the lead agency in completing Part 2, the form identifies the most relevant questions in Part 1 that will provide the information needed to answer the Part 2 question. When Part 2 is completed, the lead agency will have identified the relevant environmental areas that may be impacted by the proposed activity.

If the lead agency is a state agency **and** the action is in any Coastal Area, complete the Coastal Assessment Form before proceeding with this assessment.

Tips for completing Part 2:

- Review all of the information provided in Part 1.
- Review any application, maps, supporting materials and the Full EAF Workbook.
- Answer each of the 18 questions in Part 2.
- If you answer "Yes" to a numbered question, please complete all the questions that follow in that section.
- If you answer "No" to a numbered question, move on to the next numbered question.
- Check appropriate column to indicate the anticipated size of the impact.
- Proposed projects that would exceed a numeric threshold contained in a question should result in the reviewing agency checking the box "Moderate to large impact may occur."
- The reviewer is not expected to be an expert in environmental analysis.
- If you are not sure or undecided about the size of an impact, it may help to review the sub-questions for the general question and consult the workbook.
- When answering a question consider all components of the proposed activity, that is, the "whole action".
- Consider the possibility for long-term and cumulative impacts as well as direct impacts.
- Answer the question in a reasonable manner considering the scale and context of the project.

1. Impact on Land Proposed action may involve construction on, or physical alteration of, the land surface of the proposed site. (See Part 1. D.1) <i>If "Yes", answer questions a - j. If "No", move on to Section 2.</i>				☐ NO	☒ YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur		
a. The proposed action may involve construction on land where depth to water table is less than 3 feet.	E2d	☒	☐		
b. The proposed action may involve construction on slopes of 15% or greater.	E2f	☒	☐		
c. The proposed action may involve construction on land where bedrock is exposed, or generally within 5 feet of existing ground surface.	E2a	☒	☐		
d. The proposed action may involve the excavation and removal of more than 1,000 tons of natural material.	D2a	☒	☐		
e. The proposed action may involve construction that continues for more than one year or in multiple phases.	D1e	☒	☐		
f. The proposed action may result in increased erosion, whether from physical disturbance or vegetation removal (including from treatment by herbicides).	D2e, D2q	☒	☐		
g. The proposed action is, or may be, located within a Coastal Erosion hazard area.	B1i	☒	☐		
h. Other impacts: _____		☒	☐		

2. Impact on Geological Features

The proposed action may result in the modification or destruction of, or inhibit access to, any unique or unusual land forms on the site (e.g., cliffs, dunes, minerals, fossils, caves). (See Part 1. E.2.g)

☒ NO☐ YES

If "Yes", answer questions a - c. If "No", move on to Section 3.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Identify the specific land form(s) attached: _____	E2g	☐	☐
b. The proposed action may affect or is adjacent to a geological feature listed as a registered National Natural Landmark. Specific feature: _____	E3c	☐	☐
c. Other impacts: _____		☐	☐

3. Impacts on Surface Water

The proposed action may affect one or more wetlands or other surface water bodies (e.g., streams, rivers, ponds or lakes). (See Part 1. D.2, E.2.h)

☐ NO☒ YES

If "Yes", answer questions a - l. If "No", move on to Section 4.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may create a new water body.	D2b, D1h	☒	☐
b. The proposed action may result in an increase or decrease of over 10% or more than a 10 acre increase or decrease in the surface area of any body of water.	D2b	☒	☐
c. The proposed action may involve dredging more than 100 cubic yards of material from a wetland or water body.	D2a	☒	☐
d. The proposed action may involve construction within or adjoining a freshwater or tidal wetland, or in the bed or banks of any other water body.	E2h	☒	☐
e. The proposed action may create turbidity in a waterbody, either from upland erosion, runoff or by disturbing bottom sediments.	D2a, D2h	☒	☐
f. The proposed action may include construction of one or more intake(s) for withdrawal of water from surface water.	D2c	☒	☐
g. The proposed action may include construction of one or more outfall(s) for discharge of wastewater to surface water(s).	D2d	☒	☐
h. The proposed action may cause soil erosion, or otherwise create a source of stormwater discharge that may lead to siltation or other degradation of receiving water bodies.	D2e	☒	☐
i. The proposed action may affect the water quality of any water bodies within or downstream of the site of the proposed action.	E2h	☒	☐
j. The proposed action may involve the application of pesticides or herbicides in or around any water body.	D2q, E2h	☒	☐
k. The proposed action may require the construction of new, or expansion of existing, wastewater treatment facilities.	D1a, D2d	☒	☐

1. Other impacts: _____ _____		☒	☐
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4. Impact on groundwater

The proposed action may result in new or additional use of ground water, or may have the potential to introduce contaminants to ground water or an aquifer. ☐ NO ☒ YES
(See Part 1. D.2.a, D.2.c, D.2.d, D.2.p, D.2.q, D.2.t)
If "Yes", answer questions a - h. If "No", move on to Section 5.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may require new water supply wells, or create additional demand on supplies from existing water supply wells.	D2c	☒	☐
b. Water supply demand from the proposed action may exceed safe and sustainable withdrawal capacity rate of the local supply or aquifer. Cite Source: _____	D2c	☒	☐
c. The proposed action may allow or result in residential uses in areas without water and sewer services.	D1a, D2c	☒	☐
d. The proposed action may include or require wastewater discharged to groundwater.	D2d, E2l	☒	☐
e. The proposed action may result in the construction of water supply wells in locations where groundwater is, or is suspected to be, contaminated.	D2c, E1f, E1g, E1h	☒	☐
f. The proposed action may require the bulk storage of petroleum or chemical products over ground water or an aquifer.	D2p, E2l	☒	☐
g. The proposed action may involve the commercial application of pesticides within 100 feet of potable drinking water or irrigation sources.	E2h, D2q, E2l, D2c	☒	☐
h. Other impacts: <u>The Applicant should describe the removal of leachate from the property, and the possible contamination of the aquifer from spills or leachate and leachate removal.</u>		☒	☐

5. Impact on Flooding

The proposed action may result in development on lands subject to flooding. ☒ NO ☐ YES
(See Part 1. E.2)
If "Yes", answer questions a - g. If "No", move on to Section 6.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in development in a designated floodway.	E2i	☐	☐
b. The proposed action may result in development within a 100 year floodplain.	E2j	☐	☐
c. The proposed action may result in development within a 500 year floodplain.	E2k	☐	☐
d. The proposed action may result in, or require, modification of existing drainage patterns.	D2b, D2e	☐	☐
e. The proposed action may change flood water flows that contribute to flooding.	D2b, E2i, E2j, E2k	☐	☐
f. If there is a dam located on the site of the proposed action, is the dam in need of repair, or upgrade?	E1e	☐	☐

g. Other impacts: _____ _____		☐	☐
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6. **Impacts on Air**

The proposed action may include a state regulated air emission source.

(See Part 1. D.2.f., D.2.h, D.2.g)

If "Yes", answer questions a - f. If "No", move on to Section 7.

☒ NO

☐ YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. If the proposed action requires federal or state air emission permits, the action may also emit one or more greenhouse gases at or above the following levels: i. More than 1000 tons/year of carbon dioxide (CO ₂) ii. More than 3.5 tons/year of nitrous oxide (N ₂ O) iii. More than 1000 tons/year of carbon equivalent of perfluorocarbons (PFCs) iv. More than .045 tons/year of sulfur hexafluoride (SF ₆) v. More than 1000 tons/year of carbon dioxide equivalent of hydrochloroflourocarbons (HFCs) emissions vi. 43 tons/year or more of methane	D2g D2g D2g D2g D2g D2h	☐ ☐ ☐ ☐ ☐ ☐	☐ ☐ ☐ ☐ ☐ ☐
b. The proposed action may generate 10 tons/year or more of any one designated hazardous air pollutant, or 25 tons/year or more of any combination of such hazardous air pollutants.	D2g	☐	☐
c. The proposed action may require a state air registration, or may produce an emissions rate of total contaminants that may exceed 5 lbs. per hour, or may include a heat source capable of producing more than 10 million BTU's per hour.	D2f, D2g	☐	☐
d. The proposed action may reach 50% of any of the thresholds in "a" through "c", above.	D2g	☐	☐
e. The proposed action may result in the combustion or thermal treatment of more than 1 ton of refuse per hour.	D2s	☐	☐
f. Other impacts: _____ _____		☐	☐

7. **Impact on Plants and Animals**

The proposed action may result in a loss of flora or fauna. (See Part 1. E.2. m.-q.)

If "Yes", answer questions a - j. If "No", move on to Section 8.

☒ NO

☐ YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may cause reduction in population or loss of individuals of any threatened or endangered species, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2o	☐	☐
b. The proposed action may result in a reduction or degradation of any habitat used by any rare, threatened or endangered species, as listed by New York State or the federal government.	E2o	☐	☐
c. The proposed action may cause reduction in population, or loss of individuals, of any species of special concern or conservation need, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2p	☐	☐
d. The proposed action may result in a reduction or degradation of any habitat used by any species of special concern and conservation need, as listed by New York State or the Federal government.	E2p	☐	☐

e. The proposed action may diminish the capacity of a registered National Natural Landmark to support the biological community it was established to protect.	E3c	☐	☐
f. The proposed action may result in the removal of, or ground disturbance in, any portion of a designated significant natural community. Source: _____	E2n	☐	☐
g. The proposed action may substantially interfere with nesting/breeding, foraging, or over-wintering habitat for the predominant species that occupy or use the project site.	E2m	☐	☐
h. The proposed action requires the conversion of more than 10 acres of forest, grassland or any other regionally or locally important habitat. Habitat type & information source: _____	E1b	☐	☐
i. Proposed action (commercial, industrial or recreational projects, only) involves use of herbicides or pesticides.	D2q	☐	☐
j. Other impacts: _____		☐	☐

8. Impact on Agricultural Resources

The proposed action may impact agricultural resources. (See Part 1. E.3.a. and b.)

☒ NO

☐ YES

If "Yes", answer questions a - h. If "No", move on to Section 9.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System.	E2c, E3b	☐	☐
b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc).	E1a, E1b	☐	☐
c. The proposed action may result in the excavation or compaction of the soil profile of active agricultural land.	E3b	☐	☐
d. The proposed action may irreversibly convert agricultural land to non-agricultural uses, either more than 2.5 acres if located in an Agricultural District, or more than 10 acres if not within an Agricultural District.	E1b, E3a	☐	☐
e. The proposed action may disrupt or prevent installation of an agricultural land management system.	E1 a, E1b	☐	☐
f. The proposed action may result, directly or indirectly, in increased development potential or pressure on farmland.	C2c, C3, D2c, D2d	☐	☐
g. The proposed project is not consistent with the adopted municipal Farmland Protection Plan.	C2c	☐	☐
h. Other impacts: _____		☐	☐

9. Impact on Aesthetic Resources

The land use of the proposed action are obviously different from, or are in sharp contrast to, current land use patterns between the proposed project and a scenic or aesthetic resource. (Part 1. E.1.a, E.1.b, E.3.h.)

☒ NO☐ YES

If "Yes", answer questions a - g. If "No", go to Section 10.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Proposed action may be visible from any officially designated federal, state, or local scenic or aesthetic resource.	E3h	☐	☐
b. The proposed action may result in the obstruction, elimination or significant screening of one or more officially designated scenic views.	E3h, C2b	☐	☐
c. The proposed action may be visible from publicly accessible vantage points: i. Seasonally (e.g., screened by summer foliage, but visible during other seasons) ii. Year round	E3h	☐ ☐	☐ ☐
d. The situation or activity in which viewers are engaged while viewing the proposed action is: i. Routine travel by residents, including travel to and from work ii. Recreational or tourism based activities	E3h E2q, E1c	☐ ☐	☐ ☐
e. The proposed action may cause a diminishment of the public enjoyment and appreciation of the designated aesthetic resource.	E3h	☐	☐
f. There are similar projects visible within the following distance of the proposed project: 0-1/2 mile 1/2 -3 mile 3-5 mile 5+ mile	D1a, E1a, D1f, D1g	☐	☐
g. Other impacts: _____ _____		☐	☐

10. Impact on Historic and Archeological Resources

The proposed action may occur in or adjacent to a historic or archaeological resource. (Part 1. E.3.e, f. and g.)

☐ NO☒ YES

If "Yes", answer questions a - e. If "No", go to Section 11.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may occur wholly or partially within, or substantially contiguous to, any buildings, archaeological site or district which is listed on the National or State Register of Historical Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places.	E3e	☒	☐
b. The proposed action may occur wholly or partially within, or substantially contiguous to, an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory.	E3f	☒	☐
c. The proposed action may occur wholly or partially within, or substantially contiguous to, an archaeological site not included on the NY SHPO inventory. Source: _____	E3g	☒	☐

d. Other impacts: _____		☒	☐
If any of the above (a-d) are answered "Moderate to large impact may occur", continue with the following questions to help support conclusions in Part 3:			
i. The proposed action may result in the destruction or alteration of all or part of the site or property.	E3e, E3g, E3f	☐	☐
ii. The proposed action may result in the alteration of the property's setting or integrity.	E3e, E3f, E3g, E1a, E1b	☐	☐
iii. The proposed action may result in the introduction of visual elements which are out of character with the site or property, or may alter its setting.	E3e, E3f, E3g, E3h, C2, C3	☐	☐

11. Impact on Open Space and Recreation The proposed action may result in a loss of recreational opportunities or a reduction of an open space resource as designated in any adopted municipal open space plan. (See Part 1. C.2.c, E.1.c., E.2.q.) If "Yes", answer questions a - e. If "No", go to Section 12.			
		☒ NO	☐ YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in an impairment of natural functions, or "ecosystem services", provided by an undeveloped area, including but not limited to stormwater storage, nutrient cycling, wildlife habitat.	D2e, E1b E2h, E2m, E2o, E2n, E2p	☐	☐
b. The proposed action may result in the loss of a current or future recreational resource.	C2a, E1c, C2c, E2q	☐	☐
c. The proposed action may eliminate open space or recreational resource in an area with few such resources.	C2a, C2c E1c, E2q	☐	☐
d. The proposed action may result in loss of an area now used informally by the community as an open space resource.	C2c, E1c	☐	☐
e. Other impacts: _____		☐	☐

12. Impact on Critical Environmental Areas The proposed action may be located within or adjacent to a critical environmental area (CEA). (See Part 1. E.3.d) If "Yes", answer questions a - c. If "No", go to Section 13.			
		☒ NO	☐ YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in a reduction in the quantity of the resource or characteristic which was the basis for designation of the CEA.	E3d	☐	☐
b. The proposed action may result in a reduction in the quality of the resource or characteristic which was the basis for designation of the CEA.	E3d	☐	☐
c. Other impacts: _____		☐	☐

13. Impact on Transportation

The proposed action may result in a change to existing transportation systems.
(See Part 1. D.2.j)

☐ NO

☒ YES

If "Yes", answer questions a - f. If "No", go to Section 14.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Projected traffic increase may exceed capacity of existing road network.	D2j	☒	☐
b. The proposed action may result in the construction of paved parking area for 500 or more vehicles.	D2j	☒	☐
c. The proposed action will degrade existing transit access.	D2j	☒	☐
d. The proposed action will degrade existing pedestrian or bicycle accommodations.	D2j	☒	☐
e. The proposed action may alter the present pattern of movement of people or goods.	D2j	☒	☐
f. Other impacts: Issues with the intersection of Hartley Road and NYS Route 17M		☒	☐

14. Impact on Energy

The proposed action may cause an increase in the use of any form of energy.
(See Part 1. D.2.k)

☒ NO

☐ YES

If "Yes", answer questions a - e. If "No", go to Section 15.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action will require a new, or an upgrade to an existing, substation.	D2k	☐	☐
b. The proposed action will require the creation or extension of an energy transmission or supply system to serve more than 50 single or two-family residences or to serve a commercial or industrial use.	D1f, D1q, D2k	☐	☐
c. The proposed action may utilize more than 2,500 MWhrs per year of electricity.	D2k	☐	☐
d. The proposed action may involve heating and/or cooling of more than 100,000 square feet of building area when completed.	D1g	☐	☐
e. Other Impacts:		☐	☐

15. Impact on Noise, Odor, and Light

The proposed action may result in an increase in noise, odors, or outdoor lighting.
(See Part 1. D.2.m., n., and o.)

☐ NO

☒ YES

If "Yes", answer questions a - f. If "No", go to Section 16.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may produce sound above noise levels established by local regulation.	D2m	☒	☐
b. The proposed action may result in blasting within 1,500 feet of any residence, hospital, school, licensed day care center, or nursing home.	D2m, E1d	☒	☐
c. The proposed action may result in routine odors for more than one hour per day.	D2o	☒	☐

d. The proposed action may result in light shining onto adjoining properties.	D2n	☒	☐
e. The proposed action may result in lighting creating sky-glow brighter than existing area conditions.	D2n, E1a	☒	☐
f. Other impacts: _____ _____		☒	☐

16. Impact on Human Health

The proposed action may have an impact on human health from exposure to new or existing sources of contaminants. (See Part 1.D.2.q., E.1. d. f. g. and h.)

☐ NO

☒ YES

If "Yes", answer questions a - m. If "No", go to Section 17.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action is located within 1500 feet of a school, hospital, licensed day care center, group home, nursing home or retirement community.	E1d	☒	☐
b. The site of the proposed action is currently undergoing remediation.	E1g, E1h	☒	☐
c. There is a completed emergency spill remediation, or a completed environmental site remediation on, or adjacent to, the site of the proposed action.	E1g, E1h	☐	☒
d. The site of the action is subject to an institutional control limiting the use of the property (e.g., easement or deed restriction).	E1g, E1h	☒	☐
e. The proposed action may affect institutional control measures that were put in place to ensure that the site remains protective of the environment and human health.	E1g, E1h	☒	☐
f. The proposed action has adequate control measures in place to ensure that future generation, treatment and/or disposal of hazardous wastes will be protective of the environment and human health.	D2t	☒	☐
g. The proposed action involves construction or modification of a solid waste management facility.	D2q, E1f	☐	☒
h. The proposed action may result in the unearthing of solid or hazardous waste.	D2q, E1f	☒	☐
i. The proposed action may result in an increase in the rate of disposal, or processing, of solid waste.	D2r, D2s	☒	☐
j. The proposed action may result in excavation or other disturbance within 2000 feet of a site used for the disposal of solid or hazardous waste.	E1f, E1g E1h	☐	☒
k. The proposed action may result in the migration of explosive gases from a landfill site to adjacent off site structures.	E1f, E1g	☒	☐
l. The proposed action may result in the release of contaminated leachate from the project site.	D2s, E1f, D2r	☐	☒
m. Other impacts: _____ _____		☒	☐

17. Consistency with Community Plans
 The proposed action is not consistent with adopted land use plans.
 (See Part 1. C.1, C.2. and C.3.) ☒ NO ☐ YES
If "Yes", answer questions a - h. If "No", go to Section 18.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action's land use components may be different from, or in sharp contrast to, current surrounding land use pattern(s).	C2, C3, D1a E1a, E1b	☐	☐
b. The proposed action will cause the permanent population of the city, town or village in which the project is located to grow by more than 5%.	C2	☐	☐
c. The proposed action is inconsistent with local land use plans or zoning regulations.	C2, C2, C3	☐	☐
d. The proposed action is inconsistent with any County plans, or other regional land use plans.	C2, C2	☐	☐
e. The proposed action may cause a change in the density of development that is not supported by existing infrastructure or is distant from existing infrastructure.	C3, D1c, D1d, D1f, D1d, E1b	☐	☐
f. The proposed action is located in an area characterized by low density development that will require new or expanded public infrastructure.	C4, D2c, D2d D2j	☐	☐
g. The proposed action may induce secondary development impacts (e.g., residential or commercial development not included in the proposed action)	C2a	☐	☐
h. Other: _____ _____		☐	☐

18. Consistency with Community Character
 The proposed project is inconsistent with the existing community character.
 (See Part 1. C.2, C.3, D.2, E.3) ☒ NO ☐ YES
If "Yes", answer questions a - g. If "No", proceed to Part 3.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community.	E3e, E3f, E3g	☐	☐
b. The proposed action may create a demand for additional community services (e.g. schools, police and fire)	C4	☐	☐
c. The proposed action may displace affordable or low-income housing in an area where there is a shortage of such housing.	C2, C3, D1f D1g, E1a	☐	☐
d. The proposed action may interfere with the use or enjoyment of officially recognized or designated public resources.	C2, E3	☐	☐
e. The proposed action is inconsistent with the predominant architectural scale and character.	C2, C3	☐	☐
f. Proposed action is inconsistent with the character of the existing natural landscape.	C2, C3 E1a, E1b E2g, E2h	☐	☐
g. Other impacts: _____ _____		☐	☐

APPENDIX A-3: SEQR POSITIVE DECLARATION (3-27-2025)

State Environmental Quality Review Act

POSITIVE DECLARATION

Notice of Intent to Prepare a Draft Environmental Impact Statement
and Lead Agency Determination of Significance

This notice is issued pursuant to Part 617 of the implementing regulations pertaining to Article 8 (State Environmental Quality Review Act) of the Environmental Conservation Law. The Town Board of the Town of Goshen has determined that the proposed action described below may have a significant impact on the environment and that a Draft Environmental Impact Statement will be prepared. The Town Board hereby adopts a Positive Declaration in order to investigate and evaluate the potential environmental impacts of this Proposed Action. Scoping will be conducted.

Name of Action: I.W.S. Transfer Systems of N.Y., Inc.

Lead Agency: Town Board of the Town of Goshen, Orange County

Date: March 27, 2024

SEQRA Status: Type I

Location: The project site is located with frontage along Hartley Road,
within the Town of Goshen.

Description of Action: The Applicant, I.W.S. Transfer Systems of N.Y., Inc., is requesting a solid waste management permit under Town Code Chapter 80B for an existing solid waste management facility on a parcel located with frontage along Hartley Road within the Town of Goshen. The property contains 3.0+/- acres, and is known on the Town tax maps as Section 12, Block 1, Lot 21.21. The property is located within the Industrial (I) district, and within the AQ-6 Overlay District.

Reasons Supporting this Determination: Potential environmental impacts associated with the proposed action are identified in the Full Environmental Assessment Form. These impacts, which may be reasonably expected to result from the Project, have been compared to the criteria for determining significance identified in 6 N.Y.C.R.R. § 617.7(c)(1) and in accordance with 6 N.Y.C.R.R. § 617.7(c)(2) and (3). The Town Board finds that the Proposed Action may result in one or more significant impacts on the environment, and an Environmental Impact Statement (“EIS”) will be prepared to address, at a minimum, the following elements of the Proposed Action, which may result in potential impacts:

1. The Proposed Action may involve the excavation and removal of more than 1,000 tons of natural material.

2. The Proposed Action may result in increased erosion, whether from physical disturbance or vegetation removal at the project site (including from treatment by herbicides).
3. The Proposed Action may cause soil erosion, or otherwise create a source of stormwater discharge that may lead to siltation or other degradation of receiving water bodies.
4. The Proposed Action may have the potential to introduce contaminants to groundwater or an aquifer.
5. The Proposed Action may result in the possible contamination of the aquifer from spills or leachate and leachate removal. The Applicant should describe the removal of leachate from the property.
6. The Proposed Action may occur wholly or partially within, or substantially contiguous to, an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory.
7. Proposed impacts on transportation due to issues with the intersection of Hartley Road and NYS Route 17M.
8. The Proposed Action may result in routine odors for more than one hour per day.
9. There is a completed emergency spill remediation, or a completed environmental site remediation on, or adjacent to, the site of the proposed action.
10. The Proposed Action involves construction or modification of a solid waste management facility.
11. The Proposed Action may result in excavation or other disturbance within 2000 feet of a site used for the disposal of solid or hazardous waste.
12. The Proposed Action may result in the migration of explosive gases from a landfill site to adjacent off-site structures.
13. The Proposed Action may result in the release of contaminated leachate from the project site.

For Further Information:

Contact Person: Joseph Betro, Supervisor
Town of Goshen Town Board
41 Webster Avenue
Goshen, New York 10924
(845) 294-6250

A copy of this Notice is being sent to the following Involved and Interested Agencies:

Agency Circulation: This notice is being sent to the following involved agencies:

New York State Department of Environmental Conservation
Region 3, Division of Environmental Permits
21 South Putt Corners Road
New Paltz, New York 12561-1696

New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-0001

Interested Agency Circulation: This notice is being sent to the following interested agencies:

Environmental Notice Bulletin – via email
625 Broadway
Albany, New York 12233-0001
enb@gw.dec.state.ny.us

**APPENDIX A-4: LETTER TO SUPERVISOR BETRO FROM
KELLY M. NAUGHTON, ESQ DATED 4-30-2025**



**NAUGHTON
& TORRE** LLP
ATTORNEYS AND COUNSELORS
AT LAW

KELLY M. NAUGHTON*
ASHLEY N. TORRE**
ROBERT M. MIELE**

* Admitted in New York & Massachusetts
** Admitted in New York & New Jersey

April 30, 2025

Joseph Betro, Supervisor
Town of Goshen Town Board
Town Hall
41 Webster Avenue
Goshen, New York 10924

(via email)

Re: Interstate Waste – Chapter 80B Application
Environmental Review Board
Recommendations on Scoping Document

Dear Hon. Betro:

In accordance with Town Code § 80B-7(E)(2), the Environmental Review Board (“ERB”) reviewed Scoping Document in connection with the application of Interstate Waste (IWS) during its meeting held on April 9, 2025. Based on my review of the meeting and its transcript, the ERB had the following comments on the document:

1. IWS should be required to provide for treatment of any stormwater that leaves their property.
2. IWS should evaluate the potential impacts from the removal of materials from the site, and mitigate any impacts resulting from debris or other material that may fall off of vehicles.
3. IWS should consider widening its driveway entrance to facilitate ingress and egress from the project site.
4. IWS should perform soil borings prior to excavation to test for contaminants.
5. IWS should consider the installation of sub-slab ventilation for the releasing of vapors.

Should you have any questions or comments, please feel free to contact our office.

Very truly yours,


KELLY M. NAUGHTON

cc:	Town Board	(via email)
	Rory Brady, Esq., Town Attorney	(via email)
	Town of Goshen ERB	(via email)
	Sean T. Hoffman, P.E.	(via email)
	Frank Leva, Building Inspector	(via email)

APPENDIX A-5: SEQR SCOPING DOCUMENT ADOPTED 5-8-2025

Pursuant to State Environmental Quality Review Act ("SEQRA") 6 NYCRR § 617.8

SCOPING DOCUMENT

For

I.W.S. TRANSFER SYSTEMS OF N.Y., INC.

DRAFT ENVIRONMENTAL IMPACT STATEMENT ("DEIS")

Adopted May 8, 2025

SEQRA Lead Agency:

Town of Goshen Town Board
Town of Goshen, Orange County, NY

Lead Agency Contact Person:

Joseph Betro, Supervisor
Town of Goshen Town Board
Town Hall
41 Webster Avenue
Goshen, New York 10924
Phone: 845-294-6250
Email: c/o Town Clerk Mary Riso at mriso@townofgoshen.org

Applicant:

I.W.S. Transfer Systems of N. Y., Inc.
89 Black Meadow Road
Chester, New York 10918
Phone: 609-472-8730
Email: JAnderson@interstatewaste.com

Project Sponsor SEQRA Contact Person:

Kristen M. Thordahl, P.E.
Cornerstone Engineering and Geology, PLLC
100 Crystal Run Road, Ste. 101
Middletown, New York 10941
Phone: 877-294-9070
Email: Kristen.Thordahl@tetrattech.com

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I. INTRODUCTION AND BRIEF DESCRIPTION OF THE PROPOSED ACTION

Pursuant to the rules and regulations of the State Environmental Quality Review Act (SEQRA, Article 8 of the Environmental Conservation Law and its implementing regulations at 6 NYCRR 617), the Town of Goshen Town Board (the “Town Board”), acting as Lead Agency has determined that the Proposed Action has the potential to result in one or more significant environmental impacts. To identify appropriate measures to mitigate potential impacts and allow the public the greatest opportunity to comment on the potential impacts of the Proposed Action, the Town Board adopted a “Positive Declaration” on March 27, 2025, requiring the preparation of an Environmental Impact Statement (EIS). This Scoping Document has been prepared to guide the preparation of the Draft EIS (DEIS) and describes the Proposed Action.

The Applicant, I.W.S. Transfer Systems of N.Y., Inc., is requesting a solid waste management permit under Town Code Chapter 80B for an existing solid waste management facility on a parcel located with frontage along Hartley Road within the Town of Goshen. The Applicant proposes construction of a 9,345 square foot addition to the existing transfer station building and processing of 670 tons of municipal solid waste and construction and demolition debris. The property contains 3.0+/- acres, and is known on the Town tax maps as Section 12, Block 1, Lot 21.21. The property is located within the Industrial (I) district, and within the AQ-6 Overlay District.

II. INVOLVED/INTERESTED AGENCIES AND APPROVALS

The permits and approvals required for this project as set forth in the table below.

Required Approvals	
Town of Goshen	
<i>Agency</i>	<i>Approval/Permit</i>
Town Board	Town Code Chapter 80B Solid Waste Management Facility Operating Permit and Construction Permit
Planning Board	Special Permit and Major Site Plan Approval ¹
New York State	
Department of Environmental Conservation	Part 360 Series Permit Modification/Renewal

The following table lists Interested Agencies that may have a ministerial or advisory role in the process:

Interested Agencies	
<i>Agency</i>	<i>Approval/Permit</i>
NYS Department of Parks, Recreation & Historic Preservation	Compliance with State Historic Quality Review Act.

¹ Conditional approval was issued by the Planning Board on February 29, 2024.

III. BASIS FOR ISSUANCE OF POSITIVE DECLARATION AND THIS SCOPING DOCUMENT

On July 25, 2024, the Town of Goshen Town Board declared its intent to serve as Lead Agency and classified the project as a Type I action under SEQRA. A Notice of Intent to Establish Lead Agency was circulated to Involved Agencies by the Town Board. On March 27, 2025, the Planning Board assumed Lead Agency status for the SEQRA environmental review of the Proposed Action.

Pursuant to the rules and regulations of the State Environmental Quality Review Act (SEQRA, Article 8 of the Environmental Conservation Law and its implementing regulations at 6 NYCRR 617), the Town Board, acting as Lead Agency adopted a Positive Declaration on March 27, 2025, thereby finding that the Proposed Action may potentially have a significant adverse impact on the environment and therefore requiring preparation of a Draft Environmental Impact Statement (DEIS.)

The SEQRA Positive Declaration adopted by the Town Board found that the Proposed Action when compared with the SEQRA criteria of environmental effects listed in Section 617.7 of the SEQR regulations, may have potentially significant adverse impacts on the environment and listed the following as reasons supporting its Determination of Significance:

The proposed action may have significant adverse impacts in at least the following areas:

1. Impact on Land:

- The proposed action may involve the excavation and removal of more than 1,000 tons of natural material.
- The proposed action may result in increased erosion whether from physical disturbance or vegetation removal (including from treatment by herbicides).

2. Impacts on Surface Water:

- The proposed action may cause soil erosion, or otherwise create a source of stormwater discharge that may lead to siltation or other degradation of receiving water bodies.

3. Impact on Groundwater:

- The proposed action may have the potential to introduce contaminants to groundwater or an aquifer.
- The Proposed Action may result in the possible contamination of the aquifer from spills or leachate and leachate removal. The Applicant should describe the removal of leachate from the property.

4. Impact on Historic and Archeological Resources:

- The Proposed Action may occur wholly or partially within, or substantially contiguous to, an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory.

5. Impacts on Transportation:

- The proposed action may have impacts on transportation due to issues with the intersection of Hartley Road and NYS Route 17M.

6. Impacts on Noise and Light:

- The proposed action may result in routine odors for more than one hour per day.

7. Impact on Human Health:

- There is a completed emergency spill remediation, or a completed environmental site remediation on, or adjacent to, the site of the proposed action.
- The Proposed Action involves construction or modification of a solid waste management facility.
- The Proposed Action may result in excavation or other disturbance within 2000 feet of a site used for the disposal of solid or hazardous waste.
- The Proposed Action may result in the migration of explosive gases from a landfill site to adjacent off-site structures.
- The Proposed Action may result in the release of contaminated leachate from the project site.

IV. SCOPING

Pursuant to Part 617.8, the Lead Agency conducted a scoping session on April 24, 2025 and May 8, 2025, at 7:00 pm at Town Hall. The final Scoping Document incorporates comments made at the meetings and as received by the Public and other Involved and Interested Agencies, if any. This Scoping Document has been prepared in accordance with Part 617.8(e) and sets forth the following:

- Brief Description of the Proposed Action.
- Involved/Interested Agencies
- The basis for the Issuance of the Positive Declaration and identification of potentially significant adverse impacts.
- Extent and quality of information needed to adequately address potentially significant adverse impacts as well as the methodologies required for obtaining this information.
- Reasonable alternatives are to be considered.
- Information that should be included in an appendix rather than the body of the DEIS.

V. REQUIRED ORGANIZATION AND EXPECTED CONTENT OF THE DEIS**A. General**

The DEIS is intended to convey general and technical information regarding the potential environmental impacts of the Proposed Action, to the Town of Goshen Town Board (as Lead Agency) and other boards and agencies involved or interested in the review of the Proposed Action. The DEIS is also intended to convey the same information to the interested public. The preparer of the DEIS will keep this audience in mind as it prepares the document. Enough detail will be provided in each subject area to ensure that most readers of the document will understand, and be able to make decisions based upon, the information provided. Efforts will be made to avoid the use of technical jargon; however, where technical information will be necessary, definitions and explanations will be provided for clarity.

Narrative discussions will be accompanied by appropriate tables, charts, graphs, and figures whenever possible. Where a particular subject can be most effectively described in graphic format, the narrative discussion will attempt to summarize and highlight the information presented graphically. Plans and maps showing the Project Site will include adjacent properties

(if appropriate), neighboring uses and structures, roads, appropriate natural features, and water bodies.

Pursuant to the requirements of SEQRA, this Scoping Document includes an initial identification of mitigation measures. As the impact analyses have not yet been performed, it is not yet possible to identify other possibly needed mitigation measures. Discussions of mitigation measures will include an explanation of how those measures would be implemented, the time frame associated with such implementation, and the entity that would be responsible for implementing the mitigation.

B. Required Elements

The DEIS shall contain all of the relevant and significant information required in 6 N.Y.C.R.R. Part 617 (§ 617.9(b)). The DEIS shall contain an analysis of environmental impacts in the subject areas outlined below and an identification of potential significant adverse environmental effects that cannot be avoided if the Proposed Action is implemented. Information for each of the subject areas shall be provided in individual chapters describing existing conditions, potential impacts of the Proposed Action, and mitigation measures for potential significant adverse impacts identified. Each chapter shall include a brief introduction identifying the major topics to be considered, relevant methodology to be used, and thresholds for determining if potential significant adverse impacts exist. An Executive Summary describing the Proposed Action and potential significant adverse impacts identified shall also be included.

The current existing conditions on the Project Site shall be considered for the technical analyses. The “build year” for the Proposed Action shall be the expected first year of full occupancy and operation. The analysis of the future without the Proposed Action (the No Build/No Action condition) will be based on conditions projected in the build year for the Proposed Action.

C. Additional Guidelines

The document should be written in the third person. The terms “we” and “our” shall not be used. The Project Sponsor’s conclusions and opinions should be identified as those of the “Project Sponsor”, the “Applicant”, the “Developer”, etc.

The Preparer shall avoid subjective statements regarding potential impacts. The DEIS shall contain objective statements and conclusions of facts based upon technical analyses. Subjective evaluations of impacts where evidence is inconclusive or subject to opinion should be prefaced by statements indicating that “It is the applicant’s opinion that. . .” The Town of Goshen Town Board, as Lead Agency, reserves the right, during the review of the document, to request that subjective statements be removed from the document or otherwise modified to indicate that subjective statements are not necessarily representative of the findings of the Board.

VI. ORGANIZATION OF THE DEIS

A. Cover Sheet

The Cover Sheet should include:

- 1) Identification as Draft Environmental Impact Statement.

- 2) The name or descriptive title of the Proposed Action.
- 3) The location (county and town) and street address, if applicable, of the action, S/B/L number.
- 4) The name and address of the lead agency and the name and telephone number of a person at the agency who can provide further information.
- 5) The contact information of the primary preparer, including name and organization, of the EIS.
- 6) The date of its acceptance by the lead agency.
- 7) In the case of a draft EIS, the date by which comments must be submitted.
- 8) The date, time, and location of a public hearing on the DEIS.
- 9) Date of DEIS submittal, acceptance, and all revision dates; and
- 10) Locations for document availability, including digital and hard copies. The address of the website where documents will be stored will be provided.

B. Table of Contents

The DEIS shall include listings of major sections and subsections, tables, figures, maps, charts, appendices & any items that may be submitted under a separate cover (and identified as such).

VII. CONTENT OF THE DEIS

The text of the DEIS will include the following:

Chapter I. Executive Summary

The Executive Summary shall consist of a brief but precise summary of the DEIS that adequately and accurately summarizes the document including the following.

- Brief description of the Proposed Action, including discussion of history of Site, and previous development proposals and studies, current conditions, relevant history of SEQRA process (*i.e.*, relevant dates establishing Lead Agency, the date of adoption of the Positive Declaration, date of the acceptance of the Scoping Document) and purpose of DEIS.
- Project Purpose, Need and Public Benefit.
- Describe anticipated type of development being proposed including overview of project layout, size, and type of proposed structures (including materials, shapes and proposed colors), parking, loading, circulation, landscaping, lighting, signs, including materials and colors, and utilities.
- Significant beneficial and adverse impacts (Grouped by topic).
- Proposed mitigation measures (Grouped by topic).
- Unavoidable Adverse Environmental Impacts, and Irreversible Commitment of Resources.
- Alternatives to Proposed Action including the mandatory no build alternative.
- Summary of Impacts on Energy and Solid Waste Management.
- Summary of Growth Inducing Impacts.

- Permits and Approvals.
- List of Involved Agencies.
- List of Interested Agencies.

Chapter II: Description of the Proposed Action

1. Location and Site Description

The Project Site's location and existing conditions will be presented visually and described. The presented information shall include the regional and site-specific locations, including the following: the tax map designation, abutting streets, surrounding land uses, existing zoning categories, site ownership, easements, rights-of-way, utilities, surface water features and regulated buffers, floodplains, gross and net lot area as defined under Zoning, and any legal site use restrictions.

2. Project Description

A detailed narrative description of the Proposed Action, including but not limited to, the project setting, including environmental and manmade conditions, zoning requirements, and construction timing with any phasing plans will be discussed. A description and where appropriate graphic presentation of the Proposed Action addressing the general layout of the site, compliance with zoning requirements, site access and egress, architecture, landscaping, parking configuration, internal roadway system, pedestrian traffic accommodations, retaining walls, considerations for Emergency Service Organizations (including access and fire protection), and utility locations including water, sanitary, and stormwater management facilities.

This section will identify any easement, rights-of-way, restrictions, special district boundaries, etc. affecting the Project Site's development potential.

The Project Description will discuss the proposed use of the site including daily operations, and how daily, weekly and monthly operations may change with the increased tons per day requested. The discussion on operations should include estimated number of users and staff, hours of operation, and proposed restrictions (*e.g.*, time of year/day).

The Project Description shall describe the required project reviews and approvals, need for approval based on Proposed Action and authorizing agency regulations, as well as sequence (including estimated timeframe) for procuring needed approvals.

The project description will also include a description of the daily and peak activities occurring onsite and their potential impact on water usage, sewage disposal, traffic, noise, stormwater and others. It should be noted that there will be no on-site fuel storage tanks or truck repairs performed on this site.

3. Project Need and Benefit

This section will include a narrative description of the need for the project, it shall identify the objectives of the project sponsor and the public benefits, including social and economic considerations, achieved by the development of the proposed action with reference to local comprehensive plan as appropriate.

Chapter III: Existing Conditions, Potential Impacts, and Proposed Mitigation Measures

This Section of the DEIS shall describe the existing environmental conditions on the Site and off-Site areas where there may be significant adverse impacts caused by the Proposed Project. The extent of off-

Site areas studied for the existing conditions shall be defined for each issue. Sufficient detail will be provided so that reviewers are able to gain an understanding of current conditions and the context of which potential impacts will be assessed. For each of the following issues that will be addressed, existing Site conditions are to be defined, proposed Site conditions shall be described, potential impacts of the proposed action are to be identified and described, and mitigation measures designed to avoid, minimize or offset potential impacts are to be proposed. The methodology and standards used to quantify projected impacts are to be described. To the extent that the DEIS relies upon any previous analysis or studies performed on the Project Site, the previous analysis shall be discussed to the extent relevant, and the prior studies shall be incorporated in the DEIS as appendices.

Required elements for each section of Chapter III of the DEIS follow.

1. Land: Geology, Soils and Topography

a. Existing Conditions:

- Provide any Geotechnical Data Reports prepared specifically for this Project or Property.
- Detail soil compositions as presented in the Orange County Soil Survey and supported with actual borings when necessary.
- Using available mapping provide a table of soils found on Site identifying the construction limitations, permeability, and seasonal high-water table for each soil and limits that will be disturbed.
- Using available mapping, identify and evaluate the underlying bedrock formation types, composition and thickness.
- Identify Site slopes ranges (0-10%, 10-15%, 15-25%, 25% +).
- Discuss the general drainage characteristics of the Project Site.

b. Potential Impacts:

- Erosion and sediment control is a potential impact. The DEIS shall discuss the erosion and sediment control plan with regard to construction impacts such as erosion and earth moving. The DEIS will also discuss adequate soil erosion and sediment control measures designed in accordance with the NYS Department of Environmental Conservation's "New York Standards and Specifications for Erosion and Sedimentation Control" (current version).
- The amount of disturbed soils and excavation is a potential impact, and the DEIS shall discuss phasing schedule and methods to limit the area of disturbed soils.
- The amount of soil disturbance and removal is a potential impact and will be identified in the DEIS by the proposed grading plan for the Site and estimate proposed cut and fill earthwork volumes necessary to develop and operate the proposed action on the Site. If earthwork volumes cannot be balanced on the Site, the anticipated volume of earth/rock to be imported to, or exported from the Site shall be defined. The number of truck trips associated with any import/export activities shall be estimated and the anticipated routing of such truck trips shall be identified. If soil is exported from the site, identification of where it is being taken shall be provided.
- Discuss the proposed excavation and/or disturbance within 2,000 feet of the Old Al Turi Landfill (NYSDEC Remediation Site No. 336016), a site used for the disposal of solid or hazardous waste.

c. Mitigation Measures: Proposed measures to mitigate identified environmental impacts will be discussed and addressed including:

- Soil borings to be performed prior to excavation to determine if soils are contaminated.

If so, appropriate protections shall be implemented.

- Erosion and Sediment Control Plan complying with SPDES permit and designed in accordance with the NYS Department of Environmental Conservation's "New York Standards and Specifications for Erosion and Sedimentation Control" (current version). Describe maintenance responsibilities during and post-construction of erosion and sediment control practices.
- Dewatering techniques will be evaluated and described.
- Identify the clearing limits and limits of disturbance.
- Proper disposal of excavated materials, trucking of fill to and from site, and preservation of topsoil; and
- Address additional mitigation measures, for potential adverse environmental impacts which may be identified during the EIS studies.

2. Surface Water

- a. Existing Conditions: Location and description of surrounding waterbodies including on-Site surface waters and off-Site receiving waters and classification according to New York State Department of Environmental Conservation and/or Army Corps of Engineers. A Jurisdiction Determination from both New York State Department of Environmental Conservation and Army Corps of Engineers will be provided as attachments to the DEIS, if necessary. Description of existing drainage areas, including the overall drainage basin, drainage channels, flood plains and watersheds including downstream conditions .
- b. Potential Impacts: This section shall describe potential impacts to stormwater and include a description of the following:
 - On-site stormwater management facilities proposed. This shall be discussed and reflected on the site plans.
 - Post-development mapping shall be provided showing drainage patterns, study points and catchment areas. Study points shall be discussed and any potential increases in runoff to a given study point or offsite area shall be considered.
 - Discuss stormwater quality, runoff, and peak discharge rates.
 - Discuss erosion and sediment control methods which will be necessary during and after construction.
 - Discuss ownership and maintenance responsibilities of on-site stormwater facilities.
- c. Mitigation: Proposed measures to mitigate identified environmental impacts will be discussed and addressed including the following:
 - Discussion of stormwater quality and management and implementation of Best Management Practices (BMPs). This should include any treatment proposed involving stormwater traversing and leaving the property.
 - Discussion of compliance with applicable stormwater regulations.
 - Discussion of Erosion and Sediment Control Plan as it pertains to water quality.
 - Describe compliance with the Town of Goshen Code requirements and with all applicable NYSDEC general permits (MS4 & construction activities).
 - Address additional mitigation measures, which may be identified during the EIS studies and analysis.

3. Groundwater

- a. Existing Conditions: Location and description of any existing wells on site. Include surficial and bedrock geologic map including local geology, fracture traces and potential sources of contamination. Provide prior test results (quantity and quality).
- b. Potential Impacts: Leachate is liquid that has come into contact with waste. This can result from liquid contained in wastes delivered to the transfer station or precipitation that has come into contact with the waste after it is in place. Without protective measures in place, there is the potential for leachate to be introduced into the aquifer and contaminate water supply. The DEIS shall describe any liner systems or soil barriers proposed to be installed, and any primary and secondary leachate collection. Disposal and removal of leachate shall be described. The DEIS shall include projections of the amount of leachate that the requested expanded operating permit would generate and the changes, if any, that will be necessary to accommodate the collection and disposal of leachate in the future. Impacts from the storage and hauling of leachate (and additional leachate with an increased operating permit) from the site shall also be reviewed.
- c. Mitigation Measures: The DEIS shall describe efforts and protections proposed to minimize the potential for impacts to groundwater resources, including during the removal/hauling from the project site.

4. Historic and Archaeological Resources

- a. Existing Conditions: The DEIS shall identify any sites having significant archaeological value on or adjacent to the site.
- b. Potential Impacts: The DEIS shall discuss any interaction with the State Office of Parks, Recreation and Historic Preservation (“ORPHP” or “SHPO”), describe the potential for the Proposed Project to affect any cultural resources that may be present on the site, and perform any follow up studies required.
- c. Mitigation Measures: Mitigation shall be proposed for identified adverse environmental impacts as necessary.

5. Traffic and Transportation

- a. Existing Conditions: Describe Hartley Road and NYS Route 17M near the Project Site, including the following characteristics: roadway conditions, pavement widths, pavement markings, number of travel lanes, locations of sidewalks and curbing, traffic control, on-street parking regulations, posted speed limit, and the jurisdiction of each roadway. This should include a description of the intersection of Hartley Road and NYS Route 17M.

A summary of the existing available accident history at the intersection of Hartley Road and NYS Route 17M shall be prepared detailing the number, type, contributory factors, conditions, etc. for the most recent three-year period based on data from the Town of Goshen and NYSDOT. Accident rates will be calculated and compared to statewide averages for a similar type of roadways.

- b. Potential Impacts: A detailed capacity analysis will be conducted at the intersection noted above for each of the peak hours utilizing the procedures outlined in the latest version of the

Highway Capacity Manual and using SYNCHRO Software. Where suitable data is not available, conduct intersection turning movement counts for the weekday A.M. (7 to 9) and P.M. (3 to 6) peak hours (while school is in session), adjust for seasonality, as needed.

Provide documentation of current vehicle mix on the affected roadways for use in the analysis of intersection operating conditions.

- c. Mitigation Measures: The discussion of mitigation measures will include the following information:
- Widening and/or striping Hartley Road or the area within the NYSDOT right-of-way at the intersection, if it is determined to be too narrow to accommodate projected volume and type of traffic.
 - Widening of the driveway entrance to facilitate ingress and egress from the Project Site.
 - Input from NYSDOT and/or Town of Goshen Highway Department should be provided on conceptual agreement with any proposed mitigation.
 - Coordination of upgrades to the final 100 feet of improvements to Hartley Road and any mitigation measures to the Route 17M intersection.

6. Odor:

- a. Existing Conditions: The operation of this facility produces odors from transporting, receiving and processing of solid waste, in addition to handling other waste and recyclable materials. The current levels of odor shall be identified, and any existing mitigation measures used by the facility should be discussed.
- b. Potential Impacts: The proposed increase in tons per day to be accepted and transferred at this facility has the potential to increase the odor or the length of time the odor remains in the air. Potential odor impacts must be evaluated.
- c. Mitigation Measures: The application shall identify all mitigation measures proposed, and shall evaluate the following potential mitigation measures:
- Performing all operations indoors
 - Using high-speed garage doors to reduce the escape of odors.
 - Employing an engineering biofilter for odor treatment of all interior HVAC air prior to exhaust into the atmosphere

7. Impact to Human Health

- a. Existing Conditions: The DEIS should describe any and all completed emergency spill remediation, and completed environmental site remediation that has occurred on or adjacent to the site of the proposed action. The DEIS should identify how close any excavations on the site will be to the boundaries of the Old Al Turi Landfill.
- b. Potential Impacts: The DEIS should discuss whether the proposed action will impact any of the remediation performed on this site or adjacent to this site. This section should provide a detailed discussion of how the public health, safety and welfare of the neighborhood will be impacted by the proposed increase to the operating permit. Prior to any excavation, the project sponsor shall be required to perform soils testing to determine whether any explosive gases from the neighboring landfill have migrated to the soils of the project site. The potential for the release of contaminated leachate from the project site should be discussed.

Each contaminant shall be discussed in relation to each applicable health-based standard and guideline. Each standard and guideline will be described in terms of the agency that developed it and basic background on the standard or guideline and how it protects human health. The DEIS should discuss the potential impacts from the removal of materials from the site and transporting the material on vehicles across the property out of the structure.

- c. Mitigation Measures: Any measures that may be necessary due to the migration of explosive gases from the landfill should be described. The Project Sponsor should evaluate the installation of sub-slab ventilation for the releasing of vapors. Mitigation measures proposed to protect the soils and groundwater from any contaminated leachate should be described and discussed. The Project Sponsor shall provide a plan in the event of contamination. The Project Sponsor shall provide a plan to mitigate any impacts resulting from debris or other material that fall off vehicles exiting the property.

Chapter IV: Alternatives

Reasonable alternatives to the Proposed Action that are feasible, considering the objectives and capabilities of the Project Sponsor shall be described and evaluated. The description and evaluation of each alternative will be at a level of detail sufficient to permit a comparative assessment of the alternatives discussed. The DEIS will analyze the following alternatives:

- No Build Alternative.
- Potential inclusion of recyclables separate from single stream proposed.
- Reduced Scale Alternative [as per 6 NYCRR 617.9(b)(5)(v)(c)] that is feasible, considering the objectives and capabilities of the project sponsor, and designed to avoid, lessen, or minimize identified environmental impacts to avoid, lessen, or minimize environmental impacts on surrounding lands, neighborhoods, and the Town and County.

Chapter V: Unavoidable Adverse Impacts

Environmental Impacts that cannot be avoided with or without possible mitigation measures shall be summarized. This may include, but are not limited to the following:

- Identify those adverse environmental effects in the DEIS that can be expected to occur regardless of the mitigation measures considered. Provide a summary of proposed impacts in terms of loss of environmental resources.
- Temporary construction impacts
- Impacts to natural site features
- Operational impacts

Chapter VI: Irreversible and Irretrievable Commitment of Resources

Discuss any irreversible or irretrievable commitment of resources as a result of the Proposed Action.

Chapter VII: Growth-Inducing Aspects of the Proposed Action

Discuss “secondary” impacts that could trigger additional development in areas outside of the Project Site that would not have such development without the Proposed Project (*e.g.*, traffic improvements and consistency with surrounding land uses).

Technical Appendices

1. SEQRA Documentation (*e.g.*, Full EAF, Positive Declaration, Final Scoping Document and any technical correspondence from involved/interested agencies).
2. List of underlying studies, reports, correspondence, and information considered and relied on in preparing DEIS.
3. Stormwater Management and Pollution Prevention Plan, including all supporting technical data, if required under the New York State General Permit.
4. Engineers Report.
5. Geotechnical Data Reports and supporting data.
6. Correspondence (*e.g.*, NYSDEC, NYSDOT, OPRHP, etc.).
7. Conditionally Approved Site Plan Drawings.
8. Architectural Plans.

APPENDIX B: UNDERLYING STUDIES, REPORTS, INFORMATION, ETC.

Appendix B-1: Lease Agreement

Appendix B-2: August 5, 2025 Soil Investigation Memorandum

Appendix B-3: Water Well Analytical Results

Appendix B-4: Stormwater Analysis

Appendix B-5: 2023 Post Closure Annual Report, Al Turi Landfill, dated March 1, 2024

Appendix B-6: 2024 Post Closure Annual Report, Al Turi Landfill, dated March 4, 2025

Appendix B-7: Accident Data Summary Tables

Appendix B-8: Peak AM Hour and PM Hour Traffic Volumes Recorded in Previous Traffic Studies

Appendix B-9: Peak AM Hour and PM Hour Level of Service Summary Tables from Previous Traffic Studies

Appendix B-10: AiReactor Inc. Material Safety Data Sheet – Cherry Plus 5 Deodorant

Appendix B-11: 80B Proposed Site Plan dated September 24, 2024

APPENDIX B-1: LEASE AGREEMENT

Lease Agreement
(this "Lease") dated May 30, 2023
between
AL TURI LANDFILL, INC. ("Landlord") having an
office at
73 Hartley Road
Goshen, New York 10974
and
I.W.S. TRANSFER SYSTEMS OF N.Y.,
INC., a New York corporation ("Tenant")
with its principal place of business located at
300 Frank W. Burr Boulevard, Suite 39
Teaneck, New Jersey 07666
("Tenant's Address for Notices")

WITNESSETH:

ARTICLE 1
The Premises

1.01 In consideration of Tenant's payment of the Fixed Rent (as defined below) and Tenant's performance of the covenants hereinafter set forth, Landlord hereby leases to Tenant and Tenant hereby leases from Landlord certain premises located at Section 12, Block 21.22, Lot:1 on the Tax Map of the Town of Goshen, County of Orange, State of New York as more fully defined herein. Landlord makes no representations as to its size, condition or feasibility for Tenant's use of the Premises, except as expressly set forth herein. The premises is defined as certain land and improvements located on a portion of SECTION 12, BLOCK 21.22, LOT 1 ON THE TAX MAP OF GOSHEN, COUNTY OF ORANGE, STATE OF NEW YORK, as shown in Exhibit A of this Lease (the "Premises"). The Premises and Real Property are defined as one and the same.

ARTICLE 2
Term; Renewal Term

2.01 The term of this Lease shall be for Ten (10) Years, which shall commence on June 1, 2023 and shall end at 11:59 p.m. on May 31, 2033 ("Term").

2.02 Rent Commencement Date: June 1, 2023.

ARTICLE 3
Fixed Rent

3.01 The rents ("Rents") shall be and consist of fixed annual rent ("Fixed Rent") as follows:

Lease Period	Fixed Annual Rent	Monthly Installments
June 1, 2023 - May 31, 2024	\$ [REDACTED]	\$ [REDACTED]
June 1, 2024 - May 31, 2025	\$ [REDACTED]	\$ [REDACTED]
June 1, 2025 - May 31, 2026	\$ [REDACTED]	\$ [REDACTED]
June 1, 2026 - May 31, 2027	\$ [REDACTED]	\$ [REDACTED]
June 1, 2027 - May 31, 2028	\$ [REDACTED]	\$ [REDACTED]
June 1, 2028 - May 31, 2029	\$ [REDACTED]	\$ [REDACTED]
June 1, 2029 - May 31, 2030	\$ [REDACTED]	\$ [REDACTED]
June 1, 2030 - May 31, 2031	\$ [REDACTED]	\$ [REDACTED]
June 1, 2031 - May 31, 2032	\$ [REDACTED]	\$ [REDACTED]
June 1, 2032 - May 31, 2033	\$ [REDACTED]	\$ [REDACTED]

3.02 Tenant covenants and agrees to pay Fixed Rent. Tenant shall pay the Fixed Rent promptly when due without notice or demand therefore. Unless otherwise instructed by Landlord, Fixed Rent shall be paid by good and sufficient check (subject to collection).

3.03 All Fixed Rent shall be paid in such coin or currency (or, subject to collection, by good check payable in such coin or currency) of the United States of America as at the time shall be legal tender for the payment of public and private debts, at the office of Landlord as set forth above, or at such place and to such person as Landlord from time to time may designate by good and sufficient check (subject to collection) or ACH or federal funds wire directly to Landlord's bank account.

3.04 The Fixed Rent shall be payable in advance in equal monthly installments on the first day of each calendar month. If Tenant shall fail to pay when due any installment or payment of Fixed Rent for a period of ten (10) days after the date on which such installment of payment is due, Tenant shall pay to Landlord a late charge equal to five percent (5%) of the Fixed Rent payment unpaid or paid late.

3.05 Tenant may extend, in its sole discretion, this Lease for up to two, five-year extension periods upon written notice given to Landlord at least sixty (60) days prior to the end of the applicable term of the Lease. Fixed Rent for each of the extended years shall increase three percent (3%) over the immediately preceding year beginning on June 1 of the applicable year. For purposes of clarity, the Fixed Rent for the first year of the first extended period, if Tenant elects to extend, shall be \$~~5,000.00~~ monthly).

ARTICLE 4

Use and Conduct of Business in Premises

4.01. Use. Tenant shall primarily, occupy, maintain and operate the Premises during the Term for the operation of: Any lawful use subject to this Lease.

4.02. Tenant shall not use or occupy or allow the Premises to be used or occupied or do or permit anything to be done or kept in or about the Premises that: (i) causes or is likely to cause damage to the Premises; (ii) constitutes a nuisance, annoyance or inconvenience to other lessees or occupants of the Premises or interferes with or disrupts the use or occupancy of any area of the Premises by other tenants or occupants; or (iii) does not comply with Legal Requirements. For all purposes of this Lease the term "Legal Requirements" shall mean all present and future laws, codes, ordinances, statutes, requirements, orders and regulations, ordinary and extraordinary, foreseen and unforeseen (including, but not limited to, the New York State Energy Conservation Construction Code, New York City Local Laws #5 of 1973, #16 of 1984 and #58 of 1987 and the Americans with Disabilities Act, and any successor laws of like import) of any Governmental Authority (hereinafter defined) and all directions, requirements, orders and notices of violations thereof. For all purposes of this Lease, the term "Governmental Authority" shall mean the United States of America, the State of New York, the County of Orange, the Town of Goshen, any political subdivision thereof and any agency, department, commission, board, bureau or instrumentality of any of the foregoing, now existing or hereafter created, and any governmental agency or authority having jurisdiction over Landlord, Tenant, this Lease and/or the Premises or any portion thereof.

4.03. Tenant agrees to and shall comply with all zoning and building department requirements of the Town of Goshen.

4.04. Light. The Tenant and occupants, visitors and guests of the Premises shall not create light from being emitted from the Premises. If the Landlord determines in Landlord's reasonable discretion that the light being emitted from the Premises is unreasonable, it shall be a material default under this Lease and if such default remains uncured through any cure periods set forth in this Lease, Landlord shall have the right to terminate this Lease in accordance with the terms hereof.

4.05. Noise. Tenant shall not perform any work or conduct its business in any matter in the Premises which disturbs any of the other tenants occupying any other portions of the Premises and neighboring occupants of real properties. The Tenant and occupants, visitors and guests of the Premises shall not create unreasonable noise from being emitted from the Premises. If the Landlord determines in Landlord's reasonable discretion that the noise from being emitted from the Premises is unreasonable, this Lease may be terminated by Landlord by written notice from Landlord and it shall be a material default under this Lease.

ARTICLE 5

Taxes

5.01 Landlord shall pay all Real Estate Taxes.

5.02 For purposes of this Article 5, "Real Estate Taxes" shall mean the regularly imposed taxes and special assessments commonly levied by the Town of Goshen and any municipal, county and district Governmental Authorities (as distinguished from state and federal governmental authority), whether ordinary or extraordinary, against the owners of real property. If, at any time during the Term of this Lease the methods of taxation prevailing at the Commencement Date shall be altered so that in lieu of, in addition to or as a substitute for the whole or part of the Real Estate Taxes now levied, assessed or imposed on real estate and the improvements thereon, there shall be levied, assessed and imposed (i) a tax, assessment, levy, imposition or charge wholly or partially as a capital levy or otherwise, on the rents received from therefrom or (ii) a tax, assessment, levy (including but not limited to any municipal, state or federal levy) or charge measured by or based in whole or part upon the Premises and/or imposed upon Landlord or (iii) a license fee measured by the rent payable by Tenant under this Lease or (iv) any other tax, however characterized, is levied or assessed by the State of New York, the Town of Goshen or any political subdivision thereof against Landlord or the Fixed Rent expressly reserved hereunder in addition to or as a substitute in whole or in part for taxes presently assessed or imposed by said State or political subdivision on land and/or buildings, then all such taxes, assessments, levies, impositions, charges or fees, or the part thereof so measured or based, shall be deemed to be Real Estate Taxes for the purposes hereof, but only to the extent of the amount thereof which is lawfully assessed or imposed upon Landlord.

ARTICLE 6

Condition of the Premises

6.01 Tenant represents that Tenant has examined and is fully familiar with the physical condition of the Premises, the Improvements thereon, if any, and uses thereof. Tenant accepts the same, without recourse to Landlord, in the condition and state in which they now are and agrees that the Premises complies in all respects with all requirements of this Lease. Landlord makes no representation or warranty, express or implied in fact or by law, as to the nature or condition of the Premises, or its fitness or availability for any particular use, or the income from or expenses of operation of the Premises.

ARTICLE 7

Tenant's Work

7.01 General Description of Tenant's Work. Any work or improvements to be made by Tenant shall be at Tenant's sole cost and expense subject to Landlord's written approval, which shall not be unreasonably withheld.

Landlord's Work

7.02 None.

7.03 Tenant has examined the Premises and accepts the Premises in an "As-Is" condition.

ARTICLE 8

Insurance

8.01 During the Term, Tenant shall pay for and keep in force general liability policies in standard form (i.e. containing no non-standard, special and/or unusual exclusions or restrictive endorsements; provided, however, that such policies shall specifically contain such riders as Landlord's insurance company may require) protecting against any and all liability occasioned by accident or occurrence, such policies to be written by recognized and well-rated insurance companies authorized to transact business in the State of New York, in the amount of \$1,000,000.00 per occurrence (combined single limit) for property damage, personal injury or death. If at any time during the Term it appears that public liability or property damage limits in Orange County, New York, for premises similarly situated, due regard being given to the use and occupancy thereof, are higher than the foregoing limits, then Tenant shall increase the foregoing limits

accordingly. The policies shall contain a clause that the insurer will not cancel or change the insurance without first giving the Landlord thirty (30) days prior written notice. A copy of each policy shall be delivered to Landlord promptly upon issuance and such insurance shall be in effect throughout the term of this lease. Tenant shall name or cause to be named Landlord and Landlord's affiliates (to be named by Landlord) who shall be named as an additional insured on all insurance policies required under this Lease on a primary and non-contributory basis.

8.02 Throughout the Term or during any period of occupancy prior to the start of the Term or holding over thereafter, Tenant shall also maintain the following insurance: (a) worker's compensation insurance with minimum of \$1,000,000 or statutory limits, whichever is greater and (b) employer's liability insurance with minimum of \$1,000,000 or statutory limits, whichever is greater for bodily injury by accident per employee and (c) automobile liability insurance with minimum of \$1,000,000 limits.

8.03 If Tenant fails to secure and maintain insurance policies complying with the provisions of this **Article 8**, Landlord may, but shall not be required to, secure and maintain such insurance policies and Tenant shall pay the cost thereof to Landlord, as Additional Rent, upon demand.

8.04 At any time and from time to time upon Landlord's request, Tenant shall promptly provide Landlord with copies of the insurance policies required to be maintained under this Lease by Tenant.

8.05 Tenant shall also maintain policies of insurance covering the replacement cost of Tenant's trade fixtures, furnishings, equipment, merchandise and other personal property in the Premises and such other insurance for the Premises, and in such amounts as may from time to time be required by Landlord, against other insurable hazards which from time to time are commonly insured against by tenants of similar properties, as determined by Landlord.

8.06 If Tenant fails to maintain current insurance, then Landlord may, but shall not be obligated to obtain insurance on Tenant's behalf and Tenant shall pay to Landlord all costs for insurance within 10 days of Landlord obtaining such insurance as Additional Rent.

ARTICLE 9 Indemnity & Limited Liability

9.01 Indemnification. To the fullest extent permitted by law, Tenant shall defend, indemnify and save Landlord and Landlord's affiliates and its or their respective members, partners, directors, officers, agents and employees harmless from legal action, damages, loss, liability and any other expense (including reasonable attorneys' fees and disbursements) in connection with (i) loss of life, bodily or personal injury or property damage arising from or out of all acts, failures, omissions, or negligence of Tenant, its agents, employees or contractors which occur in or about the Premises, except to the extent that such legal action, damages, loss, liability or other expense (including reasonable attorney fees and disbursements) results in whole or in part, directly or indirectly from the default or negligence of Landlord, its respective agents, contractors, employees or persons claiming through it, and (ii) any default by Tenant under this Lease.

9.02 Limited Liability. Tenant agrees that, notwithstanding any other provision of this lease, Landlord shall not be under any personal liability under this lease and, if Landlord defaults hereunder, Tenant shall look solely to the interest of Landlord or its successor in the Premises as well as income, refunds, recoveries and awards for the satisfaction of any judgment or other judicial process requiring the payment of money by Landlord based upon any default hereunder, and no other assets of Landlord or any such successor shall be subject to levy, execution or other enforcement procedure for the satisfaction of any such judgment or process. Upon any conveyance or transfer of the Premises, the transferor shall be relieved from all liability hereunder.

9.03 Landlord shall not be held liable for any injury to or death of any person or persons, or injury or damage to property, from theft or accident, or from steam, gas, electricity, water, rain which may seep into, issue or flow from the Premises, unless same shall be due to Landlord's gross negligence or willful misconduct.

9.04 Article 9 shall survive the termination of this Lease.

ARTICLE 10

Alterations, Additions and Improvements

10.01. Tenant shall not make or perform, or permit the making or performance of, any alterations, installations, additions or other physical changes in or about the Premises (referred to collectively, as "Alterations" and individually as an "Alteration") without Landlord's prior written consent, which consent shall not be unreasonably withheld, delayed or conditioned.

10.02 Notwithstanding the foregoing provisions of this section or Landlord's consent to any Alterations, all Alterations shall be made and performed in conformity with and subject to the following provisions:

- A. All Alterations shall be made and performed at Tenant's sole cost and expense;
- B. Alterations costing in excess of \$20,000, shall be made only by licensed contractors or mechanics;
- C. All Alterations, once commenced, shall be made promptly and in a good and workmanlike manner; and
- D. Notwithstanding Landlord's approval of plans and specifications for any Alteration, all Alterations shall be made and performed in full compliance with all legal requirements and with all applicable rules, orders, and regulations.

ARTICLE 11

Landlord's and Tenant's Property

11.01. All fixtures, equipment, improvements and appurtenances attached to or built into the Premises at the commencement of or during the Term, shall be and remain a part of the Premises, shall, upon the expiration or sooner termination of this Lease, be deemed the property of Landlord and shall not be removed by Tenant except as provided in Section 11.02 ("Landlord's Property").

11.02. All business and trade fixtures, machinery and equipment, communications equipment and office equipment, whether or not attached to or built into the Premises, which are installed in the Premises by or for the account of Tenant without expense to Landlord and other articles of movable personal property owned by Tenant and located in the Premises (herein collectively called "Tenant's Property") shall be and shall remain the property of Tenant and may be removed by Tenant at any time during the Term.

ARTICLE 12

Repairs and Maintenance

12.02 Tenant, at all times during the Lease Term and at Tenant's expense, shall keep the Premises and all facilities and equipment therein in a good and clean order and condition and in such condition as may be required by all Legal Requirements and/or Insurance Requirements, and, subject to, and without modifying, the respective obligations of the parties set forth in this Lease, promptly shall make all necessary or appropriate repairs, replacements and renewals thereof, whether interior or exterior, nonstructural, ordinary or extraordinary, or foreseen or unforeseen. All repairs, replacements and renewals shall be equal in quality and class to the original work.

ARTICLE 13

Utilities - Electricity, Gas, Water and Plumbing

13.01 Tenant shall be solely responsible for and promptly pay all charges for water and sewer, gas and electric, heat, air conditioning, lighting, internet, telephone used by Tenant within the Premises.

13.02 In no event shall Landlord be liable for an interruption or failure in the supply of any such utility to the Premises unless caused by Landlord's negligence or willful misconduct.

ARTICLE 14
Quiet Enjoyment

14.01. So long as Tenant pays all of the Fixed Rent and observes and performs all of Tenant's other obligations hereunder, Tenant shall peaceably and quietly have, hold and enjoy the Premises without hindrance, ejection or molestation by Landlord or any person lawfully claiming through or under Landlord.

ARTICLE 15
Assignment, Subletting

15.01 Tenant shall not, by operation of law or otherwise, assign this Lease, nor sublet all or any part of the Premises or permit the Premises or any part thereof to be used by others, without Landlord's prior written consent which consent to an assignment or sublease will not be unreasonably withheld, delayed or conditioned in each instance. The consent by Landlord to any assignment or subletting in no way shall be construed to relieve Tenant from obtaining Landlord's express written consent to any other or further assignment or subletting. Notwithstanding anything to the contrary in this Lease, an assignment by Tenant to its parent company or subsidiary of its parent company shall not be an assignment requiring any consent from Landlord; however, Tenant shall provide Landlord prior notice of such assignment.

ARTICLE 16
Subordination

16.01 Lease Subordination: This Lease and all rights of Tenant under this Lease are, and shall remain, unconditionally subject and subordinate in all respects to all mortgages which may now or hereafter affect this Lease or the Premises, and to all advances made or hereafter to be made under such mortgages, and to all renewals, modifications, consolidations, correlations, replacements and extensions of, and substitutions for and mortgages (such mortgages as above described are referred to herein collectively as the "Mortgage"), provided Landlord obtains a non-disturbance agreement in favor of Tenant. The foregoing provisions of this section shall be self-operative and no further instrument of subordination shall be required. In confirmation of such subordination, Tenant shall execute and deliver promptly any certificate or other instrument which Landlord, or any holder of any Mortgage may reasonably request.

ARTICLE 17
Entry by Landlord

17.01 Landlord and the authorized representatives of Landlord shall have the right to enter the Premises at all reasonable times for the purpose of inspecting the same or for the purpose of doing any work permitted to be done by Landlord under this Lease, and to take all such actions thereon as may be necessary or appropriate for any other purpose pursuant to this Lease. Nothing contained in this Lease shall create or imply any duty on the part of Landlord to make any such inspection or do any such act. No such entry shall constitute an eviction of Tenant.

ARTICLE 18
Eminent Domain

18.01. If there is a Taking of the fee of the entire Premises, other than for a temporary use, this Lease shall terminate as of the date of such Taking.

ARTICLE 19
Default and Right to Cure Tenant's Default

19.01.

(A) In addition to any other event specified in this Lease as an event of default, the occurrence of any one or more of the following events during the Term (each, individually, an "Event of Default" and collectively, "Events of Default") shall constitute a breach of this Lease by Tenant and Landlord may exercise the rights set forth in Section 19.02 of this Lease or otherwise provided at law or in equity:

(1) Tenant shall fail to pay any Fixed Rent (or cure any other default which is curable by the payment of a stated sum of money) within ten (10) days after the date when the same shall become

due and payable; or

(2) Tenant shall default in the performance of or compliance with any of the other covenants, agreements, terms or conditions of this Lease to be performed by Tenant (other than any default stated in Paragraph 19.01(A)(1)), and, unless expressly provided elsewhere in this Lease that no notice and/or opportunity to cure such default is to be afforded Tenant, such default shall continue for a period of fifteen (15) days after written notice thereof from Landlord to Tenant; or

(3) Tenant shall become insolvent within the meaning of the United States Bankruptcy Code, as amended from time to time (the "Code"), or shall have ceased to pay its debts in the ordinary course of business, or shall be unable to pay its debts as they become due, or Tenant shall notify Landlord that it anticipates the occurrence of any of the foregoing conditions; or

(4) Tenant shall file, take any action to file, or notify Landlord that Tenant intends to file, a petition, case or proceeding under any section or chapter of the Code, or under any similar law or statute of the United States or any state thereof relating to bankruptcy, insolvency, reorganization, winding up or composition or adjustment of debts; or

(5) Tenant shall be adjudicated as a bankrupt or insolvent or consent to or file an answer admitting or failing reasonably to contest the material allegations of a petition filed against it in any such case or proceeding of the type described in the preceding clause (4); or

(6) Tenant shall seek to or consent to or acquiesce in the appointment of any receiver, trustee, liquidator or other custodian of Tenant or any Guarantor or any material part of its or their properties, whether or not the same shall relate to their interests in this Lease; or

(7) Tenant shall make a general assignment for the benefit of creditors; or take any other action for the purpose of effecting any of the filings, actions, conditions or results described in clauses (3) through (7) hereof; or

(8) if, within thirty (30) days after the filing of an involuntary petition in bankruptcy against Tenant or any Guarantor or the commencement of any case or proceeding against Tenant or any Guarantor seeking any reorganization, composition, arrangement, liquidation, dissolution, readjustment or similar relief under any law, such proceeding shall not have been dismissed; or if, within thirty (30) days after the appointment, without consent or acquiescence of Tenant or any Guarantor, of any trustee, receiver or liquidator of Tenant or of any Guarantor of all or any substantial part of the properties of Tenant or of any Guarantor, or of all or any part of the Premises, such appointment shall not have been vacated or stayed on appeal or otherwise; or if, within thirty (30) days after the expiration of any such stay, such appointment shall not have been vacated; or if, within thirty (30) days after the taking of possession without the consent or acquiescence of Tenant or any Guarantor, by any Governmental Authority pursuant to statutory authority for the dissolution or liquidation of Tenant or any Guarantor, such taking shall not have been vacated or stayed on appeal or otherwise; or

(9) the Premises shall be effectively abandoned by Tenant, as shown by failure to occupy the Premises, for a period of thirty (30) days; or

(10) any execution or attachment is issued against Tenant or any of its property whereupon the Premises shall be taken or occupied or attached, or attempted to be taken or occupied or attached by someone other than Tenant; or

(11) a tax lien or a mechanic's and/or materialmen's lien is filed against any property of Tenant, or Tenant does or permits to be done anything which creates a lien upon the Premises or the Building and such lien is not discharged by Tenant within sixty (60) days of the filing thereof;

(B) If an Event of Default occurs more than three (3) times within any twelve (12) month period, then, notwithstanding that each such Event of Default shall have been cured, any further default shall be deemed an Event of Default for which no notice or cure period shall apply.

19.02.

(A) Upon the occurrence of any non-monetary Event of Default, Landlord may, at its option, to pursue any one or more of the following remedies without notice or demand whatsoever, in addition to, or in lieu of, any and all remedies available to Landlord under the laws of the State of New York:

(1) Landlord may give Tenant to Tenant ten (10) days notice of notice of intent to terminate this Lease, and if such Event(s) of Default shall continue to exist at the expiration of such ten (10) day period, the term of this Lease shall expire as fully and completely as if that day were the Expiration Date, whereupon Tenant's right to possession of the Premises shall cease and the Tenant shall quit and surrender the Premises to Landlord, and, despite such termination, Tenant shall continue to be liable to Landlord under subsection 19.02(C) below and with respect to any other obligations which expressly survive termination or expiration of this Lease.

(2) Landlord and its agents may immediately re-enter and take possession of the Premises, or any part thereof, either by summary proceedings, or by any other applicable legal action or proceeding, and may repossess same as Landlord's former estate and expel Tenant and those claiming through or under Tenant, and remove the effects of both or either, without being deemed guilty in any manner of trespass, and without prejudice to any remedies for arrears of rent or Tenant's breach of covenants or conditions.

(3) Should Landlord elect to re-enter as provided hereinabove, or should Landlord take possession pursuant to legal proceedings or pursuant to any notice provided by law, Landlord may, from time to time, without terminating this Lease, relet the Premises or any part thereof in Landlord's name, but for the account of Tenant (subject to the provisions of subsection 19.02(B)), for such term or terms (which may be greater or less than the period which would otherwise have constituted the balance of the Term) and on such terms and conditions (which may include concessions of free rent and alteration, repair and improvement of the Premises) as Landlord, in its sole discretion, may determine, and Landlord may collect and receive the rents therefor without relieving Tenant of any liability under this Lease or otherwise affecting any such liability. Landlord shall have the obligation to mitigate its damages by attempting to relet the Premises or any part thereof. Except for Landlord's failure of good faith attempts to relet the Premises, Landlord shall in no event be liable for refusal or failure to relet the Premises or any part thereof, or, in the event of any such reletting, for refusal or failure to collect any rent due upon such reletting, and no such refusal or failure shall operate to relieve Tenant of any liability under this Lease or otherwise to affect any such liability. No such re-entry or taking possession of the Premises by Landlord shall be construed as an election on Landlord's part to terminate this Lease unless a written notice of such intention be given to Tenant. No notice from Landlord hereunder or under a forcible entry and detainer statute or similar law shall constitute an election by Landlord to terminate this Lease unless such notice specifically so states. Landlord reserves the right following any such re-entry and/or reletting to exercise its right to terminate this Lease by giving Tenant written notice thereof, in which event this Lease will terminate as specified in said notice.

(B) This Lease shall continue in effect for so long as Landlord does not terminate Tenant's right to possession, and Landlord may enforce all its rights and remedies under this Lease, including the right to recover the Fixed Rent and Additional Rent, as the same become due under this Lease. Acts of maintenance or preservation or efforts to relet the Premises or the appointment of a receiver upon the initiative of Landlord to protect Landlord's interest under this Lease shall not constitute a termination of Tenant's rights to possession unless Landlord shall have specifically elected to terminate this Lease as provided in subsection 19.02(A).

(C) Upon the occurrence of any monetary Event of Default, Landlord may, at its option, commence a summary or plenary proceeding against Tenant and shall be entitled to all rights and remedies available to Landlord at law and in equity.

ARTICLE 20

Surrender

20.01. On the Expiration Date or upon any earlier termination of this Lease, or upon any reentry by Landlord upon the Premises, Tenant shall quit and surrender the Premises to Landlord free and clear of all occupants, sub-Tenants and licensees, and "broom-clean" and in good order, condition and repair, except

for ordinary wear and tear and such damage or destruction as Landlord is required to repair or restore under this Lease, and Tenant shall remove all of the Tenant's Property therefrom, except as otherwise expressly provided in this Lease.

ARTICLE 21

Notices

21.01. Unless this Lease expressly provides otherwise, any notice, statement, demand, consent, approval or other communication required or permitted to be given, rendered or made by either party to this Lease ("collectively, "notices") shall be in writing and shall be sent by certified or registered mail, return receipt requested or by reputable overnight delivery service or messenger service which provides evidence of receipt. Any notice shall be deemed given when received and shall be effective when received. Any notice shall be deemed received on the delivery date endorsed by the Postal Service or the overnight delivery service or the messenger service on the return receipt, except that any notice which is correctly addressed but which is returned by the Postal Service or the overnight delivery service or the messenger service as undeliverable shall be deemed received on the earliest date on which the Postal Service or the overnight delivery service or the messenger service attempted delivery as indicated by Postal Service or overnight delivery service or messenger service endorsement on the return receipt form.

21.02. Notices intended for Landlord shall be mailed to Landlord at 73 Hartley Road, Goshen, New York 10924. Notices intended for Tenant shall be sent to Tenant at Tenant's Address for Notices. Either party, by notice to the other, may designate other (and additional) addresses to which notices intended for such party shall be sent.

ARTICLE 22

Governing Law

22.01. Irrespective of the place of execution or performance, this Lease shall be governed by and construed in accordance with the laws of the State of New York. If any provisions of this Lease or the application thereof to any person or circumstance shall, for any reason and to any extent, be invalid or unenforceable, the remainder of this Lease and the application of that provision to other persons or circumstances shall not be affected but rather shall be enforced to the extent permitted by law. This Lease shall be construed without regard to any presumption or other rule requiring construction against the party causing this Lease to be drafted. All actions or proceedings relating, directly or indirectly, to this Lease shall be litigated only in courts located within the County of Orange, State of New York. Tenant hereby subjects itself to the jurisdiction of the Supreme Court of the State of New York, County of Orange.

ARTICLE 23

Security Deposit

23.01. Tenant has deposited the sum equal to two (2) months of the Fixed Rent for the first year with Landlord (the "Security Deposit"). Tenant shall maintain a Security Deposit with Landlord at all times equal to two (2) months of applicable Fixed Rent throughout the term of this Lease. The Security Deposit shall be held as security for the full and punctual performance by Tenant of all the terms of this Lease. At all times, **Tenant shall have on deposit with Landlord a Security Deposit equal to TWO (2) months of the applicable current Fixed Rent throughout the term of this Lease.** If Tenant shall fully and punctually comply with all of the terms of this Lease, the balance of the Security Deposit shall be promptly returned to Tenant after the termination of this Lease and delivery of exclusive possession of the Premises to Landlord in the condition required hereunder. Tenant shall not assign or encumber or attempt to assign or encumber the monies deposited herein as Security Deposit and neither Landlord nor its successors or assigns shall be bound by any such assignment, encumbrance, attempted assignment or encumbrance. No mortgagee or master lessor or ground lessor shall be liable for the return of the Security Deposit. Tenant acknowledges and agrees that the Security Deposit is not an asset of the Tenant but constitutes consideration and a material inducement to Landlord for the execution and delivery of this Lease.

ARTICLE 24
Compliance with Requirements

24.01 Tenant, at all times during the Lease Term and at Tenant's expense, promptly and diligently shall: comply with all Legal Requirements and Insurance Requirements due to its use of the Premises, comply with any instruments of record at the time affecting the Premises or any part thereof; and procure, maintain and comply with all permits, licenses, franchises and other authorizations required for any use of the Premises or any part thereof then being made, including without limitation all permits, licenses, and franchises which Tenant is required to obtain for the proper erection, installation, operation or maintenance of the Improvements or Tenant's Equipment or any part thereof.

ARTICLE 25
Liens

25.01 Tenant shall indemnify and hold Landlord harmless from and against any and all bills for labor performed or equipment, fixtures and materials furnished to or for Tenant, and from and against any and all liens or claims therefore or against the Premises or the building of which it forms a part, and from and against any and all liability, claim, loss, damage or expense, including reasonable attorneys' fees, in connection with any work performed by or for Tenant. The Premises shall at all times be free of liens for labor and materials supplied or claimed to have been supplied to or on behalf of Tenant.

ARTICLE 26
Brokerage

26.01 The parties represent and warrant to each other that they have not dealt with any broker in connection with this lease or the negotiation or execution thereof, pursuant to a separate commission agreement between Brokers and Landlord; Landlord to pay brokerage commission to Brokers. Tenant and Landlord agree to indemnify and hold each other harmless from and against any claims, damage, liability or expense, including attorneys' fees, pertaining to any broker with whom each other has dealt, other than Brokers.

ARTICLE 27
No Recording of this Lease

27.01 Neither this Lease nor any memorandum thereof shall be recorded, without the prior written consent of Landlord. Recording of this Lease in any public records shall be a material default and shall permit Landlord in its own discretion, but not obligate, the landlord to terminate this Lease. If this Lease or a memorandum of this Lease is recorded by Tenant or any associate, representative or agent of Tenant, Tenant hereby designates and authorizes Landlord as Tenant's agent to execute any and all documents on behalf of Tenant to remove or cancel any recordation of this Lease or a Memorandum thereof in any public records.

ARTICLE 28
Holdover Provisions

28.01 Tenant hereby indemnifies and agrees to defend and hold Landlord harmless from any loss, cost, liability, claim, damage, fine, penalty and expense (including reasonable attorneys' fees and disbursements) resulting from delay by Tenant in surrendering the Premises upon the termination of this Lease as provided in this Lease, including any claims made by any succeeding tenant or prospective tenant or Successor Landlord founded upon such delay.

28.02 If Tenant holds over its possession after the expiration or sooner termination of the original term or of any extended term of this Lease, such holding over shall not be deemed to extend the term or renew the Lease, but such holding over thereafter shall continue upon the covenants and conditions herein set forth, except that the charge for use and occupancy of such holding over for each calendar month or part thereof (even if such part shall be a small fraction of a calendar month) shall be two hundred percent (200%) of the then Fixed Rent.

ARTICLE 29
Condemnation

29.01 In the event substantial portion of the Premises of this Lease is taken or condemned by any competent authority, Tenant shall have the right: (a) to terminate this Lease as of the earlier of the date of title transfer or the date of the taking of possession by the condemning authority in which event the term hereof and rent and all other charges shall be abated and any unearned rent paid or credited will be refunded by Landlord to Tenant; or (b) to continue the Lease in full force and effect with a reduced Fixed Rent commensurate with the reduced area and/or reduced utility of the Premises, in lieu of the amount of rental hereinabove provided, which reduced rental will become effective upon the earlier of the date of title transfer or the date of such taking. Tenant shall elect between these rights and give notice to Landlord of its election within sixty (60) days after the date of the final written determination of the portion of the Premises to be taken, and written notification to Tenant of such determination.

29.02 If Tenant does not elect to terminate this Lease as set forth herein, then the award or payment for the taking shall be paid to and used by Landlord to restore, and Landlord shall commence, and with reasonable dispatch continue, out of the proceeds of the award, to restore the portion of the Premises remaining after the taking to substantially the same condition and suitability as existed immediately preceding the taking.

29.03 If Landlord does not commence within thirty (30) days of receipt of the award, and with reasonable dispatch continue, to restore the portion of the Premises, as aforesaid, Tenant shall have the right, upon giving notice to Landlord, in addition to other rights provided herein, to terminate this Lease on written notice to Landlord, and all rent and all additional charges shall be abated as of the date of such notice.

29.04 A "substantial portion of the Building" is defined to be any of the following: (a) fifteen percent (15%) or more of the land area of the Premises; (b) loss through the taking or condemnation of direct access from the Premises to any adjacent street or highway, or (c) a portion of land or improvements of which the Premises is a part, the absence of which would have a substantial impact on Tenant's business conducted on or from the Premises, as reasonably determined by Tenant.

29.05 (a) Termination of this Lease because of condemnation shall be without prejudice to the rights of either Landlord or Tenant to recover from the condemning authority compensation and damages for the injury and loss sustained by them as a result of the taking, and Tenant shall have the right to make a separate claim against the condemning authority for the reasonable value of Tenant's trade fixtures, furniture, personal property, interruption and/or dislocation of business in the Premises, loss of good will and for moving and remodeling expenses and the depreciated book value of any leasehold improvements made by Tenant on or to the Premises.

(b) If Tenant cannot by law make a separate claim and Tenant's claim must be embodied in Landlord's claim for a condemnation award, to the extent Landlord's award includes an award for the items set forth in Subsection 29.05(a) of this Lease, Landlord shall pay over such portion of the award to Tenant's.

ARTICLE 30
Miscellaneous

30.01 This Lease is submitted to Tenant for signature with the understanding that it shall not bind the Landlord unless and until it is duly executed by both Tenant and Landlord and an executed copy delivered to Tenant.

30.02 If Tenant shall request Landlord's approval or consent to any provision of this Lease, and Landlord shall fail or refuse to give such approval or consent, Tenant shall not be entitled to any damages for any withholding or delay of such approval or consent by Landlord, it being intended that Tenant's sole remedy shall be an action for injunction without bond or specific performance (the rights to money damages or other remedies being hereby specifically waived), and that such remedy shall be available only in those cases where Landlord shall have expressly agreed in writing not to unreasonably withhold its consent or approval, or where as a matter of law, Landlord may not unreasonably withhold its consent or approval.

30.03 If Landlord is unable to give possession of the Premises to Tenant on the date of the commencement of the term hereof, because of the holding over or retention of possession of any tenant, under-tenant or occupants, Landlord shall not be subject to any liability for failure to give possession on said date and the validity of the lease shall not be impaired under such circumstances, nor shall the same be construed in any way to extend the term of this lease, but the rent payable hereunder shall be abated (provided Tenant is not responsible for the inability to obtain possession) until after Landlord shall have given Tenant written notice that The Landlord is able to deliver possession in the condition required by this Lease.

30.04 Authority to Execute Lease. Tenant and Landlord each warrant and represent that the party signing this Lease on behalf of each has authority to enter into this Lease and to bind Tenant and Landlord respectively to the terms, covenants and conditions contained herein. Each shall deliver to the other upon request, all documents reasonably requested by the other evidencing such authority including, without limitation, a copy of all corporate resolutions, consents or minutes reflecting the authority of persons or parties to enter into agreements on behalf of Tenant or Landlord.

30.05 Entire Agreement; Modification; Severability. This Lease contains the entire agreement between the parties hereto and no representations, inducements, promises or agreements, oral or otherwise, entered into prior to the execution of this Lease, will alter the covenants, agreements and undertakings herein set forth. This Lease shall not be modified in any manner, except by an instrument in writing executed by the parties. If any term or provision of this Lease or the application thereof to any person or circumstance shall, to any extent, be invalid or unenforceable, the remainder of this Lease, or the application of such term or provision to persons or circumstances other than those as to which it is held invalid or unenforceable, shall not be affected thereby and each term and provision of this Lease shall be valid and be enforced to the fullest extent permitted by law.

30.06 This Lease may be executed in counterparts, each of which shall be deemed an original. A copy of this Lease shall be deemed as an original for all purposes.

LANDLORD:
AL TURI LANDFILL, INC.

By: TJ Milo

Name: TJ Milo

Title: _____

TENANT:
I.W.S. TRANSFER SYSTEMS OF N.Y., INC.

By: Michael Di Bella

Name: Michael Di Bella

Title: CEO

APPENDIX B-2: AUGUST 5, 2025 SOIL INVESTIGATION MEMORANDUM

To: James Anderson - IWS

Cc: Kristen M. Thordahl, PE - Cornerstone

From: Nicole Scalla, Richard Calogero

Date: August 20, 2025

Subject: IWS Goshen Transfer Station Soil Investigation

Cornerstone Engineering and Geology, PLLC (Cornerstone) is providing this memorandum to summarize the results of the soil investigation activities conducted on August 5, 2025, at the IWS Goshen Transfer Station located at 95 Hartley Road, Goshen, New York. Cornerstone representatives and Summit Drilling mobilized to the Site to complete three soil borings within the footprint of the proposed transfer building addition. Additionally, four soil vapor sampling points were installed along the southern property line between the existing transfer building and the proposed building addition and the Al Turi Landfill to evaluate soil conditions for potential migration of landfill gas from the Al Turi Landfill to the south.

The soil boring and soil vapor sampling locations are shown on Figure 1.

On August 5, 2025, three soil borings were installed using a Geoprobe® direct push type (DPT) drilling rig. Soil borings SB-01 and SB-03 were installed to 20 feet below ground surface (bgs). SB-02 was installed to 15 feet bgs. The soil lithology ranged from fill material to native sand in all locations. The fill material at the three locations was made up of medium to coarse gravel and sand. Native sand was encountered around 13 to 14 feet bgs in all locations. Groundwater was not encountered in any of the soil borings. Copies of the soil boring logs are included in Attachment A.

The soils were screened visually and olfactorily for indications of contamination and using a photo-ionization detector (PID) to screen for elevated volatile organic compounds (VOCs). No visual staining or odors were noted in any of the soils and no VOCs were detected using the PID. Samples were collected from each boring location from the fill material and the underlying native soils. The following samples were sent to SGS Laboratory, a New York State Certified Laboratory, for analysis:

- SB-01 3.5-4.0
- SB-01 19.0-19.5
- SB-02 1.0-1.5
- SB-02 14.5-15.0
- SB-03 5.5-6.0
- SB-03 18.7-19.2

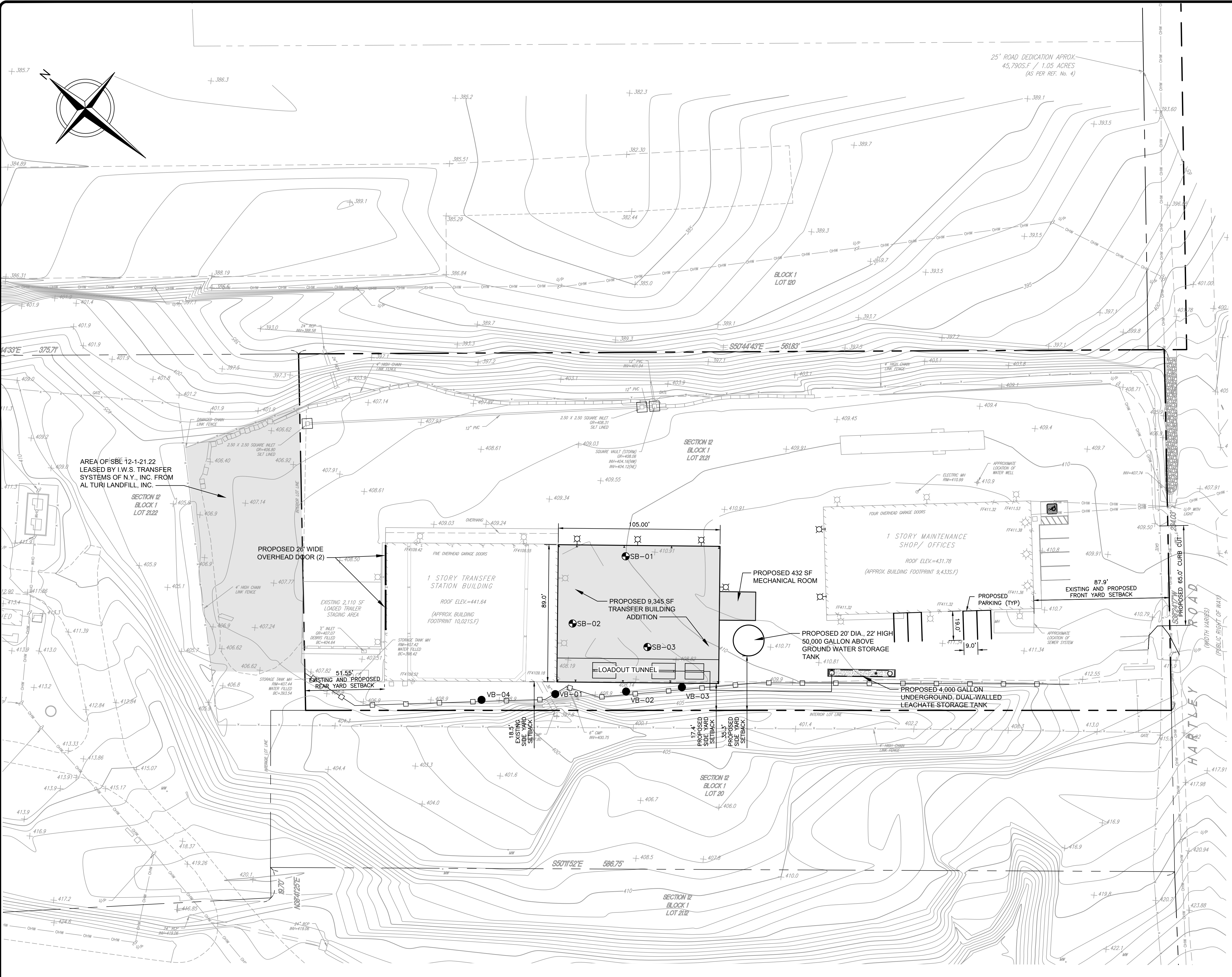
The samples were analyzed for VOCs, semi-volatile organic compounds (SVOCs), pesticides, PCBs, and metals. The sample results for the soil boring samples indicate that both the fill material and underlying native soils do not exceed any of the NYS CP-51 Soil Cleanup Objectives (SCO). The soil boring analytical results are summarized in Table 1. A copy of the laboratory results is included in Attachment B.

Four soil vapor sampling points were installed using a slam-bar apparatus to approximately 5 feet bgs. The three soil borings and the soil vapor locations were screened using an RKI Eagle 2 gas meter to detect concentrations of methane and hydrogen sulfide. Methane and hydrogen sulfide were not detected at any of the soil boring locations or the four soil vapor points along the property boundary.

Based on the results of the subsurface investigation, it appears that the fill material in the vicinity of the proposed building addition is good quality material made of crushed medium to coarse gravel and sand. The analytical results indicate both the fill material and the native soils are free of any contaminants. The soil gas investigation confirms there is no subsurface landfill gas migration occurring as shown in the results of the regular perimeter gas monitoring performed at the Al Turi Landfill.

1" = 1/2" 0" = 1"

File: A:\PROJECTS\W\Goshen\1223429 - TRANSFER STATION DESIGN\Plan Set\1223429-S-01-SOIL BORING LOCATIONS.mxd Layout: 4 User: LARSA.CHEN\CV Aug 25, 2025 - 8:46am



Unauthorized alteration or addition to this plan bearing a licensed professional's seal is a violation of Section 2209, Sub-Division 2, of the New York Education Law. Only copies from the original of this plan marked with an original professional's seal shall be considered to be valid true copies.

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PREPARED BY:
CORNERSTONE ENGINEERING AND GEOLOGY, PLLC

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LEGEND:

- PROPERTY LINE (TAX MAP) - SEE NOTES
- PROPOSED PROPERTY LINE
- ADJACENT LOT LINE (SURVEY)
- EXISTING MINOR CONTOURS
- EXISTING MAJOR CONTOURS (AS LABELED)
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- PROPOSED BUILDING ADDITION
- EXISTING BUILDING TO BE DEMOLISHED
- EXISTING BUILDING MOUNTED LIGHTS
- EXISTING ROOF MOUNTED LIGHTS
- PROPOSED BUILDING MOUNTED LIGHTS
- SOIL BORING LOCATIONS
- SOIL VAPOR BORING LOCATION

- NOTES:**
- SITE BOUNDARY & TOPOGRAPHIC SURVEY, LOT 17.32, 20, 21.21 & 21.22 OF BLOCK 1, PORTIONS OF LOTS 18, 21.12, 112 & 120 OF BLOCK 1, TOWN OF GOSHEN, ORANGE COUNTY, NEW YORK. SHEET 1 OF 1, DATED 6/17/2022, BY DRESNER ROBIN OF JERSEY CITY, NEW JERSEY.
 - HORIZONTAL DATUM BASED UPON NY E NAD 1983 (US SURVEY FEET).
 - VERTICAL DATUM BASED UPON NYGEOD 12 GR80 (US SURVEY FEET).

I.W.S. TRANSFER SYSTEMS OF N.Y., INC.
GOSHEN - TRANSFER STATION UPGRADES
95 HARTLEY ROAD, GOSHEN, NEW YORK

**SOIL BORING AND VAPOR SAMPLING
LOCATIONS**

FIGURE NO.
1

PROJECT NO.
4223429

Table 1
IWS Goshen Transfer Station, 95 Hartley Road, Goshen, NY
Summary of August 5, 2025 Soil Boring Results

Analyte	CAS Number	Unit	NYS CP-51 Soil Cleanup Objectives					Client Sample ID:					
			Commercial	Industrial	Ecological Resources	Groundwater Protection	Residential	SB-01 3.5-4.0 JE16543-1	SB-01 19.0-19.5 JE16543-2	SB-02 1.0-1.5 JE16543-3	SB-02 14.5-15.0 JE16543-4	SB-03 5.5-6.0 JE16543-5	SB-03 18.7-19.2 JE16543-6
Volatile Organic Compounds													
Acetone	67-64-1	ug/kg	500000	1000000	2200	50	100000	8.4 J ^e	ND ^a	22.3 ^e	ND ^a	ND ^a	7.4 J ^e
Benzene	71-43-2	ug/kg	44000	89000	70000	60	2900	ND	ND	ND	ND	ND	ND
Bromochloromethane	74-97-5	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Bromodichloromethane	75-27-4	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Bromoform	75-25-2	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Bromomethane	74-83-9	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	78-93-3	ug/kg	500000	1000000	100000	300	100000	ND	ND	ND	ND	ND	ND
Carbon disulfide	75-15-0	ug/kg	-	-	-	2700	100000	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	56-23-5	ug/kg	22000	44000	-	760	1400	ND	ND	ND	ND	ND	ND
Chlorobenzene	108-90-7	ug/kg	500000	1000000	40000	1100	100000	ND	ND	ND	ND	ND	ND
Chloroethane	75-00-3	ug/kg	-	-	-	1900	-	ND	ND	ND	ND	ND	ND
Chloroform	67-66-3	ug/kg	350000	700000	12000	370	10000	ND	ND	ND	ND	ND	ND
Chloromethane	74-87-3	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Cyclohexane	110-82-7	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	96-12-8	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Dibromochloromethane	124-48-1	ug/kg	-	-	10000	-	-	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	106-93-4	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	95-50-1	ug/kg	500000	1000000	-	1100	100000	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	541-73-1	ug/kg	280000	560000	-	2400	17000	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	106-46-7	ug/kg	130000	250000	20000	1800	9800	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	75-71-8	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	75-34-3	ug/kg	240000	480000	-	270	19000	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	107-06-2	ug/kg	30000	60000	10000	20	2300	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	75-35-4	ug/kg	500000	1000000	-	330	100000	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	156-59-2	ug/kg	500000	1000000	-	250	59000	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	156-60-5	ug/kg	500000	1000000	-	190	100000	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	78-87-5	ug/kg	-	-	700000	-	-	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	10061-01-5	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	10061-02-6	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Ethylbenzene	100-41-4	ug/kg	390000	780000	-	1000	30000	ND	ND	ND	ND	ND	ND
Freon 113	76-13-1	ug/kg	-	-	-	6000	100000	ND	ND	ND	ND	ND	ND
2-Hexanone	591-78-6	ug/kg	-	-	-			ND	ND	ND	ND	ND	ND
Isopropylbenzene	98-82-8	ug/kg	-	-	-	2300	100000	ND	ND	ND	ND	ND	ND
Methyl Acetate	79-20-9	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Methylcyclohexane	108-87-2	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Methyl Tert Butyl Ether	1634-04-4	ug/kg	500000	1000000	-	930	62000	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone(MIBK)	108-10-1	ug/kg	-	-	-	1000	-	ND	ND	ND	ND	ND	ND
Methylene chloride	75-09-2	ug/kg	500000	1000000	12000	50	51000	ND	ND	ND	ND	ND	ND
Styrene	100-42-5	ug/kg	-	-	300000	-	-	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	-	-	-	600	35000	ND	ND	ND	ND	ND	ND
Tetrachloroethene	127-18-4	ug/kg	150000	300000	2000	1300	5500	ND	ND	ND	ND	ND	ND
Toluene	108-88-3	ug/kg	500000	1000000	36000	700	100000	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	87-61-6	ug/kg	-	-	20000	-	-	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	120-82-1	ug/kg	-	-	20000	3400	-	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	71-55-6	ug/kg	500000	1000000	-	680	100000	ND	ND	ND	ND	ND	ND

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1,1,2-Trichloroethane	79-00-5	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Trichloroethene	79-01-6	ug/kg	200000	400000	2000	470	10000	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	75-69-4	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Vinyl chloride	75-01-4	ug/kg	13000	27000	-	20	210	ND	ND	ND	ND	ND	ND
m,p-Xylene		ug/kg	500000	1000000	260	1600	100000	ND	ND	ND	ND	ND	ND
o-Xylene	95-47-6	ug/kg	500000	1000000	260	1600	100000	ND	ND	ND	ND	ND	ND
Xylene (total)	1330-20-7	ug/kg	500000	1000000	260	1600	100000	ND	ND	ND	ND	ND	ND
Total TIC, Volatile		ug/kg	-	-	-	-	-	0	0	0	0	0	0
Semi-Volatile Organic Compounds													
2-Chlorophenol	95-57-8	ug/kg	-	-	800	-	100000	ND	ND	ND	ND	ND	ND
4-Chloro-3-methyl phenol	59-50-7	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	120-83-2	ug/kg	-	-	20000	400	100000	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	105-67-9	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	51-28-5	ug/kg	-	-	20000	200	100000	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	534-52-1	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
2-Methylphenol	95-48-7	ug/kg	500000	1000000	-	330	100000	ND	ND	ND	ND	ND	ND
3&4-Methylphenol		ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
2-Nitrophenol	88-75-5	ug/kg	-	-	7000	300	-	ND	ND	ND	ND	ND	ND
4-Nitrophenol	100-02-7	ug/kg	-	-	7000	100	-	ND	ND	ND	ND	ND	ND
Pentachlorophenol	87-86-5	ug/kg	6700	55000	800	800	2400	ND	ND	ND	ND	ND	ND
Phenol	108-95-2	ug/kg	500000	1000000	30000	330	100000	ND	ND	ND	ND	ND	ND
2,3,4,6-Tetrachlorophenol	58-90-2	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	95-95-4	ug/kg	-	-	4000	100	100000	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	88-06-2	ug/kg	-	-	10000	-	-	ND	ND	ND	ND	ND	ND
Acenaphthene	83-32-9	ug/kg	500000	1000000	20000	98000	100000	ND	ND	ND	ND	ND	ND
Acenaphthylene	208-96-8	ug/kg	500000	1000000	-	107000	100000	ND	ND	ND	ND	ND	ND
Acetophenone	98-86-2	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Anthracene	120-12-7	ug/kg	500000	1000000	-	1000000	100000	ND	ND	ND	ND	ND	ND
Atrazine	1912-24-9	ug/kg	-	-	-	-	-	ND ^a	ND ^a	ND ^a	ND ^a	ND ^a	ND ^a
Benzo(a)anthracene	56-55-3	ug/kg	5600	11000	-	1000	1000	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	50-32-8	ug/kg	1000	1100	2600	22000	1000	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	205-99-2	ug/kg	5600	11000	-	1700	1000	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	191-24-2	ug/kg	500000	1000000	-	1000000	100000	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	ug/kg	56000	110000	-	1700	1000	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	101-55-3	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	85-68-7	ug/kg	-	-		122000	100000	ND	11.9 J ^c	ND	ND	ND	ND
1,1'-Biphenyl	92-52-4	ug/kg	-	-	60000	-	-	ND	ND	ND	ND	ND	ND
Benzaldehyde	100-52-7	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	91-58-7	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
4-Chloroaniline	106-47-8	ug/kg	-	-	-	220	100000	ND	ND	ND	ND	ND	ND
Carbazole	86-74-8	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Caprolactam	105-60-2	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Chrysene	218-01-9	ug/kg	56000	110000	-	1000	1000	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	111-91-1	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether	111-44-4	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
2,2'-Oxybis(1-chloropropane)	108-60-1	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND

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4-Chlorophenyl phenyl ether	7005-72-3	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	121-14-2	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	606-20-2	ug/kg	-	-	-	1000	1030	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
1,4-Dioxane	123-91-1	ug/kg	130000	250000	100	100	9800	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	53-70-3	ug/kg	560	1100	-	1000000	330	ND	ND	ND	ND	ND	ND
Dibenzofuran	132-64-9	ug/kg	350000	1000000	-	6200	14000	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	84-74-2	ug/kg	-	-	14	8100	100000	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	117-84-0	ug/kg	-	-	-	120000	100000	ND ^a	ND ^a	ND ^a	ND	ND	ND
Diethyl phthalate	84-66-2	ug/kg	-	-	100000	7100	100000	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	131-11-3	ug/kg	-	-	200000	27000	100000	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	ug/kg	-	-	239000	435000	50000	ND	ND	ND	ND	ND	ND
Fluoranthene	206-44-0	ug/kg	500000	1000000	-	1000000	100000	ND	ND	ND	ND	ND	ND
Fluorene	86-73-7	ug/kg	500000	1000000	30000	386000	100000	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	118-74-1	ug/kg	6000	12000	-	1400	410	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	87-68-3	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	77-47-4	ug/kg	-	-	10000	-	-	ND ^d	ND ^d	ND ^d	ND ^d	ND ^d	ND ^d
Hexachloroethane	67-72-1	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5600	11000	-	8200	500	ND	ND	ND	ND	ND	ND
Isophorone	78-59-1	ug/kg	-	-	-	4400	100000	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	91-57-6	ug/kg	-	-	-	36400	410	ND	ND	ND	ND	ND	ND
2-Nitroaniline	88-74-4	ug/kg	-	-	-	400	-	ND	ND	ND	ND	ND	ND
3-Nitroaniline	99-09-2	ug/kg	-	-	-	500	-	ND	ND	ND	ND	ND	ND
4-Nitroaniline	100-01-6	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Naphthalene	91-20-3	ug/kg	500000	1000000		12000	100000	ND	ND	ND	ND	ND	ND
Nitrobenzene	98-95-3	ug/kg	69000	140000	40000	170	3700	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	621-64-7	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	86-30-6	ug/kg	-	-	20000	-	-	ND	ND	ND	ND	ND	ND
Phenanthrene	85-01-8	ug/kg	500000	1000000	-	1000000	100000	ND	ND	ND	ND	ND	ND
Pyrene	129-00-0	ug/kg	500000	1000000	-	1000000	100000	ND	ND	ND	ND	ND	ND
1,2,4,5-Tetrachlorobenzene	95-94-3	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Total TIC, Semi-Volatile		ug/kg	-	-	-	-	-	0	0	0	0	2470 J	0
PCBs													
Aroclor 1016	12674-11-2	ug/kg	1000	25000	1000	3200	1000	ND	ND	ND	ND	ND	ND
Aroclor 1221	11104-28-2	ug/kg	1000	25000	1000	3200	1000	ND	ND	ND	ND	ND	ND
Aroclor 1232	11141-16-5	ug/kg	1000	25000	1000	3200	1000	ND	ND	ND	ND	ND	ND
Aroclor 1242	53469-21-9	ug/kg	1000	25000	1000	3200	1000	ND	ND	ND	ND	ND	ND
Aroclor 1248	12672-29-6	ug/kg	1000	25000	1000	3200	1000	ND	ND	ND	ND	ND	ND
Aroclor 1254	11097-69-1	ug/kg	1000	25000	1000	3200	1000	ND	ND	ND	ND	ND	ND
Aroclor 1260	11096-82-5	ug/kg	1000	25000	1000	3200	1000	ND	ND	ND	ND	ND	ND
Aroclor 1268	11100-14-4	ug/kg	1000	25000	1000	3200	1000	ND	ND	ND	ND	ND	ND
Aroclor 1262	37324-23-5	ug/kg	1000	25000	1000	3200	1000	ND	ND	ND	ND	ND	ND

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Pesticides													
Aldrin	309-00-2	ug/kg	680	1400	140	190	19	ND	ND	ND	ND	ND	ND
alpha-BHC	319-84-6	ug/kg	3400	6800	40	20	97	ND	ND	ND	ND	ND	ND
beta-BHC	319-85-7	ug/kg	3000	14000	600	90	72	ND	ND	ND	ND	ND	ND
delta-BHC	319-86-8	ug/kg	500000	1000000	40	250	100000	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	58-89-9	ug/kg	9200	23000	6000	100	280	ND	ND	ND	ND	ND	ND
alpha-Chlordane	5103-71-9	ug/kg	24000	47000	1300	2900	910	ND	ND	ND	ND	ND	ND
gamma-Chlordane	5103-74-2	ug/kg	-	-	-	14000	540	ND	ND	ND	ND	ND	ND
Dieldrin	60-57-1	ug/kg	1400	2800	6	100	39	ND	ND	ND	ND	ND	ND
4,4'-DDD	72-54-8	ug/kg	92000	180000	3.3	14000	2600	ND	ND	ND	ND	ND	ND
4,4'-DDE	72-55-9	ug/kg	62000	120000	3.3	17000	1800	ND	ND	ND	ND	ND	ND
4,4'-DDT	50-29-3	ug/kg	47000	94000	3.3	136000	1700	ND	ND	ND	ND	ND	ND
Endrin	72-20-8	ug/kg	89000	410000	14	60	2200	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	1031-07-8	ug/kg	200000	920000	-	1000000	4800	ND	ND	ND	ND	ND	ND
Endrin aldehyde	7421-93-4	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Endosulfan-I	959-98-8	ug/kg	200000	920000	-	102000	4800	ND	ND	ND	ND	ND	ND
Endosulfan-II	33213-65-9	ug/kg	200000	920000	-	102000	4800	ND	ND	ND	ND	ND	ND
Heptachlor	76-44-8	ug/kg	15000	29000	140	380	420	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	1024-57-3	ug/kg	-	-	-	20	77	ND	ND	ND	ND	ND	ND
Methoxychlor	72-43-5	ug/kg	-	-	1200	900000	100000	ND	ND	ND	ND	ND	ND
Endrin ketone	53494-70-5	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Toxaphene	8001-35-2	ug/kg	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Metals													
Arsenic	7440-38-2	mg/kg	16	16	13	16	16	6	7.3	7	5.3	7.4	6.4
Barium	7440-39-3	mg/kg	400	10000	433	820	350	29.6	36.3	33.5	26.2	35.6	33.8
Cadmium	7440-43-9	mg/kg	9.3	60	4	7.5	2.5	<1.1 ^b	<1.1 ^b	<1.0 ^b	<0.56	<1.1 ^b	<1.1 ^b
Chromium	7440-47-3	mg/kg	-	-	-	-	-	14.1	19.1	14.9	14.4	17.3	18.1
Lead	7439-92-1	mg/kg	1000	3900	63	450	400	11.6	14.2	15.5	10.8	18.5	12.8
Mercury	7439-97-6	mg/kg	2.8	5.7	0.18	0.73	0.81	<0.032	<0.030	<0.032	<0.032	<0.031	0.039
Selenium	7782-49-2	mg/kg	1500	6800	3.9	4	36	<4.3 ^b	<4.4 ^b	<4.2 ^b	<2.2	<4.3 ^b	<4.3 ^b
Silver	7440-22-4	mg/kg	1500	6800	2	8.3	36	<1.1 ^b	<1.1 ^b	<1.0 ^b	<0.56	<1.1 ^b	<1.1 ^b
General Chemistry													
Percent Solids		%	-	-	-	-	-	93.6	93.5	93.1	91	92.8	91.6

Notes:
ND - Not Detected
J - Estimated Concentration
CCV - Continuing Calibration Verification
a - Associated CCV outside of control limits high, sample was ND.
b - Elevated detection limit due to dilution required for high interfering element.
c - Detected in the Method blank but below the reporting limit level.
d - Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
e - Associated CCV outside of control limits high.
f - Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

Attachment A
Soil Boring Logs and Photo Log

 Cornerstone Environmental Group 100 Crystal Run Road, Suite 101 Middletown, NY 10941 P. (845) 695-0220 TETRA TECH					Project #: 209-4223429-004		BORING ID SB-01		
					Site/Project Name: IWS - Goshen				
					Site Address: 95 Hartley Road Goshen NY				
					Weather: Cloudy, 62		Total Depth: 20'		
					Geologist: Nicole Scalla		GW Encountered: NA		
Start Date: 8/5/2025		Drilling Company: Summit Drilling		GW Stabilized: NA					
Start Time: 9:00		Driller: Brad Frace		GPS Coordinates: X: - Y: -					
Completion Date: 8/5/2025		Drill Rig: Geoprobe 6011DT							
Completion Time: 9:40		Sampler Type/Length: 5' Macrocore							
Depth (ft.)	PID/FID/OVM	Blow Count	Sample ID and Depth	Recovery (feet)	Soil Type	SOIL/GEOLOGIC DESCRIPTION		Well Construction	
1	0.9			4.5'		0.0-1.0 1.0-4.5	Crushed Concrete L. Gray MC GRAVEL and FMC Sand (fill material)		
2	1.1								
3	1.8								
4	2.1								
5	1.2			4.5'		5.0-9.5	L. Brown MC GRAVEL and FMC Sand (fill material) with some crushed cobbles		
6	1.6								
7	1.6								
8	1.6								
9	0.8			4.5'					
10	0.7						10.0-13.5		L. Brown MC GRAVEL and FMC Sand (fill material) with some crushed cobbles
11	1.3						13.5-14.0		L. Brown Sandy CLAY
12	0.7						14.0-14.5		L. Brown F SAND with little Clay
13	0.3			4.5'					
14	0.2								
15	0.4								
16	0.8						15.0-16.2 16.2-19.5		D. Brown F SAND with little M Gravel L. Brown FM SAND
17	0.3			4.5'					
18	0.2								
19	0.2								
20									
21						Sample Collection: SB-01 3.5-4.0 @ 09:30 SB-01 19.0-19.5 @ 09:35			
22									
23									
24									
25									
					Notes:	CH4 = 0% LEL H2S = 0 ppm			

TRACE = 1 - 10%

LITTLE = 11 - 20%

SOME = 21 - 35%

AND = 36 - 50%

 Cornerstone Environmental Group 100 Crystal Run Road, Suite 101 Middletown, NY 10941 P. (845) 695-0220 TETRA TECH					Project #: 209-4223429-004		BORING ID SB-02		
					Site/Project Name: IWS - Goshen				
					Site Address: 95 Hartley Road Goshen NY				
					Weather: Cloudy, 62		Total Depth: 15'		
					Geologist: Nicole Scalla		GW Encountered: NA		
Start Date: 8/5/2025		Drilling Company: Summit Drilling		GW Stabilized: NA					
Start Time: 10:10		Driller: Brad Frace		GPS Coordinates: X: - Y: -					
Completion Date: 8/5/2025		Drill Rig: Geoprobe 6011DT							
Completion Time: 10:30		Sampler Type/Length: 5' Macrocore							
Depth (ft.)	PID/FID/OVM	Blow Count	Sample ID and Depth	Recovery (feet)	Soil Type	SOIL/GEOLOGIC DESCRIPTION		Well Construction	
1	0.3			4.2'		0.0-1.0 1.0-4.2	Crushed Conrete L. Brown MC GRAVEL and MC Sand (fill material)		
2	0.4								
3	0.4								
4	0.1								
5	0.2			1.5'		5.0-6.5	D. Brown MC GRAVEL and MC Sand (fill material)		
6	0.1								
7									
8									
9				5.0'		10.0-12.6 12.6-14.0 14.0-15.0	D. Brown MC GRAVEL and MC Sand with little Clay. Damp L. Brown Sandy CLAY L. Brown FM SAND		
10	0.2								
11	0.2								
12	0.1								
13	0								
14	0								
15	0								
16									
17									
18									
19									
20									
21						Sample Collection: SB-02 1.0-1.5 @ 10:20 SB-02 14.5-15.0 @ 10:25			
22									
23									
24									
25						Notes: CH4 = 0% LEL H2S = 0 ppm			

TRACE = 1 - 10% LITTLE = 11 - 20% SOME = 21 - 35% AND = 36 - 50%

 Cornerstone Environmental Group 100 Crystal Run Road, Suite 101 Middletown, NY 10941 P. (845) 695-0220 TETRA TECH					Project #: 209-4223429-004		BORING ID SB-03	
					Site/Project Name: IWS - Goshen			
					Site Address: 95 Hartley Road Goshen NY			
					Weather: Cloudy, 62		Total Depth: 20'	
					Geologist: Nicole Scalla		GW Encountered: NA	
Start Date: 8/5/2025		Drilling Company: Summit Drilling		GW Stabilized: NA				
Start Time: 9:40		Driller: Brad Frace		GPS Coordinates: X: - Y: -				
Completion Date: 8/5/2025		Drill Rig: Geoprobe 6011DT						
Completion Time: 10:10		Sampler Type/Length: 5' Macrocore						
Depth (ft.)	PID/FID/OVM	Blow Count	Sample ID and Depth	Recovery (feet)	Soil Type	SOIL/GEOLOGIC DESCRIPTION		Well Construction
1	0.2			4.2'		0.0-0.5 0.5-4.2	Crushed Concrete L. Gray MC GRAVEL and MC Sand (fill material)	
2	0.2							
3	0.2							
4	0.2							
5	0.1			3.1'		5.0-5.2 5.2-8.1	Crushed Concrete D. Brown MC GRAVEL and MC Sand (fill material)	
6	0.3							
7	0.2							
8	0							
9				4.2'		10.0-12.7 12.7-13.7 13.7-14.2	SAA D. Gray MC GRAVEL and MC Sand (fill material) L. brown FM SAND	
10	0							
11	0							
12	0							
13	0			4.2'		15.0-15.9 15.9-18.2 18.2-19.2	D. Gray MC GRAVEL and MC Sand L. Brown Sandy CLAY L. Brown FM SAND	
14	0							
15	0.2							
16	0							
17	0					Sample Collection: SB-03 5.5-6.0 @ 10:00 SB-03 18.7-19.2 @ 10:05		
18	0							
19	0							
20								
21						Notes: CH4 = 0% LEL H2S = 0 ppm		
22								
23								
24								
25								

TRACE = 1 - 10%

LITTLE = 11 - 20%

SOME = 21 - 35%

AND = 36 - 50%

Photo Log
IWS Goshen Transfer Station, 95 Hartley Road, Goshen, NY
August 5, 2025 Soil Investigation

Soil Boring SB-01



Soil Boring SB-02



Photo Log
IWS Goshen Transfer Station, 95 Hartley Road, Goshen, NY
August 5, 2025 Soil Investigation

Soil Boring SB-03



Attachment B
Laboratory Report

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Cornerstone Environmental Group, LLC

Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY

209-4223429

SGS Job Number: JE16543

Sampling Date: 08/05/25

Report to:

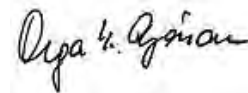
Cornerstone Environmental
100 Crystal Run Road Suite 101
Middletown, NY 10941
Kristen.Thordahl@Cornerstoneeg.com

ATTN: Kristen Thordahl

Total number of pages in report: **60**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.



Olga Azarian
Technical Director

Client Service contact: Carin Ferris 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CO, CT, FL, HI, IL, IN, KY, LA (120428), MA, MD, ME, MN, NC, NH, NV, AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX (T104704234), UT, VA, WA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

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Sample Summary

Cornerstone Environmental Group, LLC

Job No: JE16543

Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY
Project No: 209-4223429

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
---------------	----------------	---------	----------	-------------	------	------------------

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JE16543-1	08/05/25	09:30	NS	08/06/25	SO	Soil	SB-01 3.5-4.0
JE16543-2	08/05/25	09:35	NS	08/06/25	SO	Soil	SB-01 19.0-19.5
JE16543-3	08/05/25	10:20	NS	08/06/25	SO	Soil	SB-02 1.0-1.5
JE16543-4	08/05/25	10:25	NS	08/06/25	SO	Soil	SB-02 14.5-15.0
JE16543-5	08/05/25	10:00	NS	08/06/25	SO	Soil	SB-03 5.5-6.0
JE16543-6	08/05/25	10:05	NS	08/06/25	SO	Soil	SB-03 18.7-19.2
JE16543-7	08/05/25	10:25	NS	08/06/25	AQ	Trip Blank Soil	TB

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: JE16543
Account: Cornerstone Environmental Group, LLC
Project: Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY
Collected: 08/05/25

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JE16543-1 SB-01 3.5-4.0						
Acetone ^a		8.4 J	11	4.4	ug/kg	SW846 8260D
Arsenic		6.0	2.2		mg/kg	SW846 6010D
Barium		29.6	22		mg/kg	SW846 6010D
Chromium		14.1	1.1		mg/kg	SW846 6010D
Lead		11.6	2.2		mg/kg	SW846 6010D
JE16543-2 SB-01 19.0-19.5						
Butyl benzyl phthalate ^b		11.9 JB	70	8.5	ug/kg	SW846 8270E
Arsenic		7.3	2.2		mg/kg	SW846 6010D
Barium		36.3	22		mg/kg	SW846 6010D
Chromium		19.1	1.1		mg/kg	SW846 6010D
Lead		14.2	2.2		mg/kg	SW846 6010D
JE16543-3 SB-02 1.0-1.5						
Acetone ^a		22.3	11	4.4	ug/kg	SW846 8260D
Arsenic		7.0	2.1		mg/kg	SW846 6010D
Barium		33.5	21		mg/kg	SW846 6010D
Chromium		14.9	1.0		mg/kg	SW846 6010D
Lead		15.5	2.1		mg/kg	SW846 6010D
JE16543-4 SB-02 14.5-15.0						
Arsenic		5.3	2.2		mg/kg	SW846 6010D
Barium		26.2	22		mg/kg	SW846 6010D
Chromium		14.4	1.1		mg/kg	SW846 6010D
Lead		10.8	2.2		mg/kg	SW846 6010D
JE16543-5 SB-03 5.5-6.0						
Total TIC, Semi-Volatile		2470 J			ug/kg	
Arsenic		7.4	2.2		mg/kg	SW846 6010D
Barium		35.6	22		mg/kg	SW846 6010D
Chromium		17.3	1.1		mg/kg	SW846 6010D
Lead		18.5	2.2		mg/kg	SW846 6010D
JE16543-6 SB-03 18.7-19.2						
Acetone ^a		7.4 J	14	5.9	ug/kg	SW846 8260D
Arsenic		6.4	2.2		mg/kg	SW846 6010D
Barium		33.8	22		mg/kg	SW846 6010D
Chromium		18.1	1.1		mg/kg	SW846 6010D

Summary of Hits

Job Number: JE16543
Account: Cornerstone Environmental Group, LLC
Project: Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY
Collected: 08/05/25

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Lead		12.8	2.2		mg/kg	SW846 6010D
Mercury		0.039	0.030		mg/kg	SW846 7471B

JE16543-7 TB

No hits reported in this sample.

- (a) Associated CCV outside of control limits high.
- (b) Detected in the Method blank but below the reporting limit level.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SB-01 3.5-4.0	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-1	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	93.6
Method:	SW846 8260D SW846 5035		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I268149.D	1	08/07/25 14:46	PS	08/07/25 08:00	n/a	VI10769
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	8.4	11	4.4	ug/kg	J
71-43-2	Benzene	ND	0.53	0.49	ug/kg	
74-97-5	Bromochloromethane	ND	5.3	0.60	ug/kg	
75-27-4	Bromodichloromethane	ND	2.1	0.46	ug/kg	
75-25-2	Bromoform	ND	5.3	1.5	ug/kg	
74-83-9	Bromomethane	ND	5.3	0.82	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.6	ug/kg	
75-15-0	Carbon disulfide	ND	2.1	0.57	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.1	0.66	ug/kg	
108-90-7	Chlorobenzene	ND	2.1	0.49	ug/kg	
75-00-3	Chloroethane	ND	5.3	0.63	ug/kg	
67-66-3	Chloroform	ND	2.1	1.1	ug/kg	
74-87-3	Chloromethane	ND	5.3	2.1	ug/kg	
110-82-7	Cyclohexane	ND	2.1	0.70	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.1	0.74	ug/kg	
124-48-1	Dibromochloromethane	ND	2.1	0.60	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.45	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.58	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.53	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.53	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.3	0.78	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.53	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.50	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.70	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.90	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.65	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.1	0.51	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.1	0.51	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.1	0.49	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.48	ug/kg	
76-13-1	Freon 113	ND	5.3	2.9	ug/kg	
591-78-6	2-Hexanone	ND	5.3	2.3	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-01 3.5-4.0	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-1	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	93.6
Method:	SW846 8260D SW846 5035		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.1	1.5	ug/kg	
79-20-9	Methyl Acetate	ND	5.3	1.5	ug/kg	
108-87-2	Methylcyclohexane	ND	2.1	0.93	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.50	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.3	2.4	ug/kg	
75-09-2	Methylene chloride	ND	5.3	2.8	ug/kg	
100-42-5	Styrene	ND	2.1	0.43	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	0.64	ug/kg	
127-18-4	Tetrachloroethene	ND	2.1	0.62	ug/kg	
108-88-3	Toluene	ND	1.1	0.56	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.3	2.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.3	2.7	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.1	0.52	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.1	0.59	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.81	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.3	0.73	ug/kg	
75-01-4	Vinyl chloride	ND	2.1	0.51	ug/kg	
	m,p-Xylene	ND	1.1	0.96	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.49	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.49	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	120%		80-124%
17060-07-0	1,2-Dichloroethane-D4	110%		75-133%
2037-26-5	Toluene-D8	103%		79-125%
460-00-4	4-Bromofluorobenzene	94%		58-148%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) Associated CCV outside of control limits high.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-01 3.5-4.0	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-1	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	93.6
Method:	SW846 8270E SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P522106.D	1	08/09/25 16:12	KLS	08/08/25 01:50	OP66072	E6P4448
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	71	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	30	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	63	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	180	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	180	38	ug/kg	
95-48-7	2-Methylphenol	ND	71	23	ug/kg	
	3&4-Methylphenol	ND	71	29	ug/kg	
88-75-5	2-Nitrophenol	ND	180	23	ug/kg	
100-02-7	4-Nitrophenol	ND	350	94	ug/kg	
87-86-5	Pentachlorophenol	ND	140	33	ug/kg	
108-95-2	Phenol	ND	71	18	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	23	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	26	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	21	ug/kg	
83-32-9	Acenaphthene	ND	35	12	ug/kg	
208-96-8	Acenaphthylene	ND	35	18	ug/kg	
98-86-2	Acetophenone	ND	180	7.6	ug/kg	
120-12-7	Anthracene	ND	35	22	ug/kg	
1912-24-9	Atrazine ^a	ND	71	15	ug/kg	
56-55-3	Benzo(a)anthracene	ND	35	10	ug/kg	
50-32-8	Benzo(a)pyrene	ND	35	16	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	35	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	35	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	35	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	71	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	71	8.6	ug/kg	
92-52-4	1,1'-Biphenyl	ND	71	4.8	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.7	ug/kg	
91-58-7	2-Chloronaphthalene	ND	71	8.4	ug/kg	
106-47-8	4-Chloroaniline	ND	180	13	ug/kg	
86-74-8	Carbazole	ND	71	5.1	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-01 3.5-4.0	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-1	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	93.6
Method:	SW846 8270E SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	71	14	ug/kg	
218-01-9	Chrysene	ND	35	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	71	7.5	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	71	15	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	71	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	71	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	35	11	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	35	18	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	71	29	ug/kg	
123-91-1	1,4-Dioxane	ND	35	23	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	35	16	ug/kg	
132-64-9	Dibenzofuran	ND	71	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	71	5.7	ug/kg	
117-84-0	Di-n-octyl phthalate ^a	ND	71	8.8	ug/kg	
84-66-2	Diethyl phthalate	ND	71	7.5	ug/kg	
131-11-3	Dimethyl phthalate	ND	71	6.3	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	71	8.3	ug/kg	
206-44-0	Fluoranthene	ND	35	16	ug/kg	
86-73-7	Fluorene	ND	35	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	71	8.9	ug/kg	
87-68-3	Hexachlorobutadiene	ND	35	14	ug/kg	
77-47-4	Hexachlorocyclopentadiene ^b	ND	350	14	ug/kg	
67-72-1	Hexachloroethane	ND	180	17	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	35	17	ug/kg	
78-59-1	Isophorone	ND	71	7.5	ug/kg	
91-57-6	2-Methylnaphthalene	ND	35	8.0	ug/kg	
88-74-4	2-Nitroaniline	ND	180	8.3	ug/kg	
99-09-2	3-Nitroaniline	ND	180	8.8	ug/kg	
100-01-6	4-Nitroaniline	ND	180	9.1	ug/kg	
91-20-3	Naphthalene	ND	35	9.9	ug/kg	
98-95-3	Nitrobenzene	ND	71	14	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	71	10	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	13	ug/kg	
85-01-8	Phenanthrene	ND	35	12	ug/kg	
129-00-0	Pyrene	ND	35	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	9.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%		10-99%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-01 3.5-4.0	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-1	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	93.6
Method:	SW846 8270E SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	52%		10-96%
118-79-6	2,4,6-Tribromophenol	48%		10-123%
4165-60-0	Nitrobenzene-d5	53%		10-109%
321-60-8	2-Fluorobiphenyl	57%		11-109%
1718-51-0	Terphenyl-d14	58%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-01 3.5-4.0	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-1	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	93.6
Method:	SW846 8081B SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G212178.D	1	08/08/25 06:33	CP	08/07/25 16:15	OP66086	G1G7670
Run #2							

	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.68	0.56	ug/kg	
319-84-6	alpha-BHC	ND	0.68	0.55	ug/kg	
319-85-7	beta-BHC	ND	0.68	0.62	ug/kg	
319-86-8	delta-BHC	ND	0.68	0.65	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.68	0.50	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.68	0.55	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.68	0.31	ug/kg	
60-57-1	Dieldrin	ND	0.68	0.47	ug/kg	
72-54-8	4,4' -DDD	ND	0.68	0.62	ug/kg	
72-55-9	4,4' -DDE	ND	0.68	0.60	ug/kg	
50-29-3	4,4' -DDT	ND	0.68	0.60	ug/kg	
72-20-8	Endrin	ND	0.68	0.53	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.68	0.53	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.68	0.39	ug/kg	
959-98-8	Endosulfan-I	ND	0.68	0.39	ug/kg	
33213-65-9	Endosulfan-II	ND	0.68	0.42	ug/kg	
76-44-8	Heptachlor	ND	0.68	0.59	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.68	0.48	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.54	ug/kg	
53494-70-5	Endrin ketone	ND	0.68	0.49	ug/kg	
8001-35-2	Toxaphene	ND	17	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		13-162%
877-09-8	Tetrachloro-m-xylene	75%		13-162%
2051-24-3	Decachlorobiphenyl	81%		10-180%
2051-24-3	Decachlorobiphenyl	90%		10-180%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-01 3.5-4.0	
Lab Sample ID:	JE16543-1	Date Sampled: 08/05/25
Matrix:	SO - Soil	Date Received: 08/06/25
Method:	SW846 8082A SW846 3546	Percent Solids: 93.6
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2523962.D	1	08/08/25 05:23	CP	08/07/25 16:15	OP66087	GXX8923
Run #2							

	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	16	ug/kg	
11104-28-2	Aroclor 1221	ND	34	21	ug/kg	
11141-16-5	Aroclor 1232	ND	34	22	ug/kg	
53469-21-9	Aroclor 1242	ND	34	14	ug/kg	
12672-29-6	Aroclor 1248	ND	34	30	ug/kg	
11097-69-1	Aroclor 1254	ND	34	18	ug/kg	
11096-82-5	Aroclor 1260	ND	34	14	ug/kg	
11100-14-4	Aroclor 1268	ND	34	30	ug/kg	
37324-23-5	Aroclor 1262	ND	34	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		10-174%
877-09-8	Tetrachloro-m-xylene	73%		10-174%
2051-24-3	Decachlorobiphenyl	75%		10-195%
2051-24-3	Decachlorobiphenyl	72%		10-195%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-01 3.5-4.0	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-1	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	93.6
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	6.0	2.2	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁵
Barium	29.6	22	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁵
Cadmium ^a	< 1.1	1.1	mg/kg	2	08/08/25	08/12/25 LM	SW846 6010D ³	SW846 3050B ⁵
Chromium	14.1	1.1	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁵
Lead	11.6	2.2	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁵
Mercury	< 0.032	0.032	mg/kg	1	08/07/25	08/07/25 CM	SW846 7471B ¹	SW846 7471B ⁴
Selenium ^a	< 4.3	4.3	mg/kg	2	08/08/25	08/12/25 LM	SW846 6010D ³	SW846 3050B ⁵
Silver ^a	< 1.1	1.1	mg/kg	2	08/08/25	08/12/25 LM	SW846 6010D ³	SW846 3050B ⁵

- (1) Instrument QC Batch: MA59102
- (2) Instrument QC Batch: MA59119
- (3) Instrument QC Batch: MA59128
- (4) Prep QC Batch: MP56429
- (5) Prep QC Batch: MP56445

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SB-01 19.0-19.5	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-2	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	93.5
Method:	SW846 8260D SW846 5035		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I268150.D	1	08/07/25 15:08	PS	08/07/25 08:00	n/a	VI10769
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	11	4.4	ug/kg	
71-43-2	Benzene	ND	0.53	0.49	ug/kg	
74-97-5	Bromochloromethane	ND	5.3	0.60	ug/kg	
75-27-4	Bromodichloromethane	ND	2.1	0.46	ug/kg	
75-25-2	Bromoform	ND	5.3	1.5	ug/kg	
74-83-9	Bromomethane	ND	5.3	0.82	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.6	ug/kg	
75-15-0	Carbon disulfide	ND	2.1	0.57	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.1	0.66	ug/kg	
108-90-7	Chlorobenzene	ND	2.1	0.49	ug/kg	
75-00-3	Chloroethane	ND	5.3	0.63	ug/kg	
67-66-3	Chloroform	ND	2.1	1.1	ug/kg	
74-87-3	Chloromethane	ND	5.3	2.1	ug/kg	
110-82-7	Cyclohexane	ND	2.1	0.70	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.1	0.74	ug/kg	
124-48-1	Dibromochloromethane	ND	2.1	0.60	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.45	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.58	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.53	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.53	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.3	0.78	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.53	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.50	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.70	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.90	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.65	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.1	0.51	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.1	0.51	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.1	0.49	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.48	ug/kg	
76-13-1	Freon 113	ND	5.3	2.9	ug/kg	
591-78-6	2-Hexanone	ND	5.3	2.3	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-01 19.0-19.5	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-2	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	93.5
Method:	SW846 8260D SW846 5035		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.1	1.5	ug/kg	
79-20-9	Methyl Acetate	ND	5.3	1.5	ug/kg	
108-87-2	Methylcyclohexane	ND	2.1	0.94	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.50	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.3	2.4	ug/kg	
75-09-2	Methylene chloride	ND	5.3	2.8	ug/kg	
100-42-5	Styrene	ND	2.1	0.43	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	0.64	ug/kg	
127-18-4	Tetrachloroethene	ND	2.1	0.62	ug/kg	
108-88-3	Toluene	ND	1.1	0.56	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.3	2.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.3	2.7	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.1	0.52	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.1	0.59	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.81	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.3	0.73	ug/kg	
75-01-4	Vinyl chloride	ND	2.1	0.51	ug/kg	
	m,p-Xylene	ND	1.1	0.96	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.49	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.49	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	120%		80-124%
17060-07-0	1,2-Dichloroethane-D4	112%		75-133%
2037-26-5	Toluene-D8	104%		79-125%
460-00-4	4-Bromofluorobenzene	92%		58-148%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-01 19.0-19.5	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-2	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	93.5
Method:	SW846 8270E SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P522107.D	1	08/09/25 16:31	KLS	08/08/25 01:50	OP66072	E6P4448
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.6 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	70	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	30	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	62	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	37	ug/kg	
95-48-7	2-Methylphenol	ND	70	22	ug/kg	
	3&4-Methylphenol	ND	70	29	ug/kg	
88-75-5	2-Nitrophenol	ND	170	23	ug/kg	
100-02-7	4-Nitrophenol	ND	350	93	ug/kg	
87-86-5	Pentachlorophenol	ND	140	33	ug/kg	
108-95-2	Phenol	ND	70	18	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	23	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	26	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	21	ug/kg	
83-32-9	Acenaphthene	ND	35	12	ug/kg	
208-96-8	Acenaphthylene	ND	35	18	ug/kg	
98-86-2	Acetophenone	ND	170	7.5	ug/kg	
120-12-7	Anthracene	ND	35	21	ug/kg	
1912-24-9	Atrazine ^a	ND	70	15	ug/kg	
56-55-3	Benzo(a)anthracene	ND	35	9.9	ug/kg	
50-32-8	Benzo(a)pyrene	ND	35	16	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	35	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	35	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	35	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	70	13	ug/kg	
85-68-7	Butyl benzyl phthalate ^b	11.9	70	8.5	ug/kg	JB
92-52-4	1,1'-Biphenyl	ND	70	4.8	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.7	ug/kg	
91-58-7	2-Chloronaphthalene	ND	70	8.3	ug/kg	
106-47-8	4-Chloroaniline	ND	170	13	ug/kg	
86-74-8	Carbazole	ND	70	5.1	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-01 19.0-19.5	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-2	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	93.5
Method:	SW846 8270E SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	70	14	ug/kg	
218-01-9	Chrysene	ND	35	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	70	7.5	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	70	15	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	70	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	70	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	35	11	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	35	18	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	70	29	ug/kg	
123-91-1	1,4-Dioxane	ND	35	23	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	35	15	ug/kg	
132-64-9	Dibenzofuran	ND	70	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	70	5.7	ug/kg	
117-84-0	Di-n-octyl phthalate ^a	ND	70	8.7	ug/kg	
84-66-2	Diethyl phthalate	ND	70	7.4	ug/kg	
131-11-3	Dimethyl phthalate	ND	70	6.2	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	70	8.2	ug/kg	
206-44-0	Fluoranthene	ND	35	16	ug/kg	
86-73-7	Fluorene	ND	35	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	70	8.8	ug/kg	
87-68-3	Hexachlorobutadiene	ND	35	14	ug/kg	
77-47-4	Hexachlorocyclopentadiene ^c	ND	350	14	ug/kg	
67-72-1	Hexachloroethane	ND	170	17	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	35	16	ug/kg	
78-59-1	Isophorone	ND	70	7.5	ug/kg	
91-57-6	2-Methylnaphthalene	ND	35	7.9	ug/kg	
88-74-4	2-Nitroaniline	ND	170	8.2	ug/kg	
99-09-2	3-Nitroaniline	ND	170	8.7	ug/kg	
100-01-6	4-Nitroaniline	ND	170	9.1	ug/kg	
91-20-3	Naphthalene	ND	35	9.9	ug/kg	
98-95-3	Nitrobenzene	ND	70	13	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	70	10	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	13	ug/kg	
85-01-8	Phenanthrene	ND	35	12	ug/kg	
129-00-0	Pyrene	ND	35	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	8.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	59%		10-99%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-01 19.0-19.5	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-2	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	93.5
Method:	SW846 8270E SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	54%		10-96%
118-79-6	2,4,6-Tribromophenol	52%		10-123%
4165-60-0	Nitrobenzene-d5	55%		10-109%
321-60-8	2-Fluorobiphenyl	61%		11-109%
1718-51-0	Terphenyl-d14	60%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Detected in the Method blank but below the reporting limit level.
- (c) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-01 19.0-19.5	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-2	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	93.5
Method:	SW846 8081B SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G212179.D	1	08/08/25 06:50	CP	08/07/25 16:15	OP66086	G1G7670
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.69	0.57	ug/kg	
319-84-6	alpha-BHC	ND	0.69	0.56	ug/kg	
319-85-7	beta-BHC	ND	0.69	0.63	ug/kg	
319-86-8	delta-BHC	ND	0.69	0.67	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.69	0.51	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.69	0.56	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.69	0.31	ug/kg	
60-57-1	Dieldrin	ND	0.69	0.48	ug/kg	
72-54-8	4,4' -DDD	ND	0.69	0.64	ug/kg	
72-55-9	4,4' -DDE	ND	0.69	0.61	ug/kg	
50-29-3	4,4' -DDT	ND	0.69	0.62	ug/kg	
72-20-8	Endrin	ND	0.69	0.54	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.69	0.54	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.69	0.39	ug/kg	
959-98-8	Endosulfan-I	ND	0.69	0.40	ug/kg	
33213-65-9	Endosulfan-II	ND	0.69	0.43	ug/kg	
76-44-8	Heptachlor	ND	0.69	0.60	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.69	0.49	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.55	ug/kg	
53494-70-5	Endrin ketone	ND	0.69	0.50	ug/kg	
8001-35-2	Toxaphene	ND	17	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	63%		13-162%
877-09-8	Tetrachloro-m-xylene	63%		13-162%
2051-24-3	Decachlorobiphenyl	64%		10-180%
2051-24-3	Decachlorobiphenyl	70%		10-180%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-01 19.0-19.5	
Lab Sample ID:	JE16543-2	Date Sampled: 08/05/25
Matrix:	SO - Soil	Date Received: 08/06/25
Method:	SW846 8082A SW846 3546	Percent Solids: 93.5
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2523963.D	1	08/08/25 05:42	CP	08/07/25 16:15	OP66087	GXX8923
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	16	ug/kg	
11104-28-2	Aroclor 1221	ND	35	22	ug/kg	
11141-16-5	Aroclor 1232	ND	35	22	ug/kg	
53469-21-9	Aroclor 1242	ND	35	14	ug/kg	
12672-29-6	Aroclor 1248	ND	35	31	ug/kg	
11097-69-1	Aroclor 1254	ND	35	19	ug/kg	
11096-82-5	Aroclor 1260	ND	35	15	ug/kg	
11100-14-4	Aroclor 1268	ND	35	30	ug/kg	
37324-23-5	Aroclor 1262	ND	35	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	63%		10-174%
877-09-8	Tetrachloro-m-xylene	62%		10-174%
2051-24-3	Decachlorobiphenyl	60%		10-195%
2051-24-3	Decachlorobiphenyl	58%		10-195%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-01 19.0-19.5	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-2	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	93.5
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	7.3	2.2	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁵
Barium	36.3	22	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁵
Cadmium ^a	< 1.1	1.1	mg/kg	2	08/08/25	08/12/25 LM	SW846 6010D ³	SW846 3050B ⁵
Chromium	19.1	1.1	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁵
Lead	14.2	2.2	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁵
Mercury	< 0.030	0.030	mg/kg	1	08/07/25	08/07/25 CM	SW846 7471B ¹	SW846 7471B ⁴
Selenium ^a	< 4.4	4.4	mg/kg	2	08/08/25	08/12/25 LM	SW846 6010D ³	SW846 3050B ⁵
Silver ^a	< 1.1	1.1	mg/kg	2	08/08/25	08/12/25 LM	SW846 6010D ³	SW846 3050B ⁵

- (1) Instrument QC Batch: MA59102
- (2) Instrument QC Batch: MA59119
- (3) Instrument QC Batch: MA59128
- (4) Prep QC Batch: MP56429
- (5) Prep QC Batch: MP56445

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SB-02 1.0-1.5	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-3	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	93.1
Method:	SW846 8260D SW846 5035		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I268151.D	1	08/07/25 15:30	PS	08/07/25 08:00	n/a	VI10769
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	22.3	11	4.4	ug/kg	
71-43-2	Benzene	ND	0.54	0.49	ug/kg	
74-97-5	Bromochloromethane	ND	5.4	0.60	ug/kg	
75-27-4	Bromodichloromethane	ND	2.1	0.46	ug/kg	
75-25-2	Bromoform	ND	5.4	1.5	ug/kg	
74-83-9	Bromomethane	ND	5.4	0.82	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.6	ug/kg	
75-15-0	Carbon disulfide	ND	2.1	0.57	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.1	0.66	ug/kg	
108-90-7	Chlorobenzene	ND	2.1	0.49	ug/kg	
75-00-3	Chloroethane	ND	5.4	0.63	ug/kg	
67-66-3	Chloroform	ND	2.1	1.1	ug/kg	
74-87-3	Chloromethane	ND	5.4	2.1	ug/kg	
110-82-7	Cyclohexane	ND	2.1	0.71	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.1	0.75	ug/kg	
124-48-1	Dibromochloromethane	ND	2.1	0.60	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.45	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.59	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.53	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.53	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.4	0.78	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.53	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.50	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.70	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.90	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.66	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.1	0.51	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.1	0.51	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.1	0.49	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.49	ug/kg	
76-13-1	Freon 113	ND	5.4	2.9	ug/kg	
591-78-6	2-Hexanone	ND	5.4	2.3	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-02 1.0-1.5	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-3	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	93.1
Method:	SW846 8260D SW846 5035		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.1	1.5	ug/kg	
79-20-9	Methyl Acetate	ND	5.4	1.5	ug/kg	
108-87-2	Methylcyclohexane	ND	2.1	0.94	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.50	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.4	2.4	ug/kg	
75-09-2	Methylene chloride	ND	5.4	2.8	ug/kg	
100-42-5	Styrene	ND	2.1	0.43	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	0.64	ug/kg	
127-18-4	Tetrachloroethene	ND	2.1	0.62	ug/kg	
108-88-3	Toluene	ND	1.1	0.56	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.4	2.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	2.7	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.1	0.52	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.1	0.60	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.82	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.4	0.73	ug/kg	
75-01-4	Vinyl chloride	ND	2.1	0.52	ug/kg	
	m,p-Xylene	ND	1.1	0.96	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.49	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.49	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	122%		80-124%
17060-07-0	1,2-Dichloroethane-D4	112%		75-133%
2037-26-5	Toluene-D8	103%		79-125%
460-00-4	4-Bromofluorobenzene	92%		58-148%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) Associated CCV outside of control limits high.

ND = Not detected MDL = Method Detection Limit
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 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-02 1.0-1.5	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-3	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	93.1
Method:	SW846 8270E SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P522108.D	1	08/09/25 16:50	KLS	08/08/25 01:50	OP66072	E6P4448
Run #2							

	Initial Weight	Final Volume
Run #1	31.9 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	67	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	29	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	60	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	36	ug/kg	
95-48-7	2-Methylphenol	ND	67	22	ug/kg	
	3&4-Methylphenol	ND	67	28	ug/kg	
88-75-5	2-Nitrophenol	ND	170	22	ug/kg	
100-02-7	4-Nitrophenol	ND	340	90	ug/kg	
87-86-5	Pentachlorophenol	ND	130	32	ug/kg	
108-95-2	Phenol	ND	67	18	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	25	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
83-32-9	Acenaphthene	ND	34	12	ug/kg	
208-96-8	Acenaphthylene	ND	34	17	ug/kg	
98-86-2	Acetophenone	ND	170	7.2	ug/kg	
120-12-7	Anthracene	ND	34	21	ug/kg	
1912-24-9	Atrazine ^a	ND	67	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	34	9.5	ug/kg	
50-32-8	Benzo(a)pyrene	ND	34	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	34	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	34	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	34	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	8.2	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	4.6	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.4	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	8.0	ug/kg	
106-47-8	4-Chloroaniline	ND	170	12	ug/kg	
86-74-8	Carbazole	ND	67	4.9	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-02 1.0-1.5	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-3	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	93.1
Method:	SW846 8270E SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	67	13	ug/kg	
218-01-9	Chrysene	ND	34	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	7.2	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	15	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	67	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	34	10	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	34	17	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	67	28	ug/kg	
123-91-1	1,4-Dioxane	ND	34	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	34	15	ug/kg	
132-64-9	Dibenzofuran	ND	67	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	5.5	ug/kg	
117-84-0	Di-n-octyl phthalate ^a	ND	67	8.4	ug/kg	
84-66-2	Diethyl phthalate	ND	67	7.2	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	6.0	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	67	7.9	ug/kg	
206-44-0	Fluoranthene	ND	34	15	ug/kg	
86-73-7	Fluorene	ND	34	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	8.5	ug/kg	
87-68-3	Hexachlorobutadiene	ND	34	14	ug/kg	
77-47-4	Hexachlorocyclopentadiene ^b	ND	340	13	ug/kg	
67-72-1	Hexachloroethane	ND	170	17	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	34	16	ug/kg	
78-59-1	Isophorone	ND	67	7.2	ug/kg	
91-57-6	2-Methylnaphthalene	ND	34	7.6	ug/kg	
88-74-4	2-Nitroaniline	ND	170	7.9	ug/kg	
99-09-2	3-Nitroaniline	ND	170	8.4	ug/kg	
100-01-6	4-Nitroaniline	ND	170	8.7	ug/kg	
91-20-3	Naphthalene	ND	34	9.5	ug/kg	
98-95-3	Nitrobenzene	ND	67	13	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	9.7	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	12	ug/kg	
85-01-8	Phenanthrene	ND	34	11	ug/kg	
129-00-0	Pyrene	ND	34	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	8.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		10-99%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-02 1.0-1.5	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-3	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	93.1
Method:	SW846 8270E SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	39%		10-96%
118-79-6	2,4,6-Tribromophenol	41%		10-123%
4165-60-0	Nitrobenzene-d5	40%		10-109%
321-60-8	2-Fluorobiphenyl	43%		11-109%
1718-51-0	Terphenyl-d14	47%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-02 1.0-1.5	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-3	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	93.1
Method:	SW846 8081B SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G212180.D	1	08/08/25 07:07	CP	08/07/25 16:15	OP66086	G1G7670
Run #2							

	Initial Weight	Final Volume
Run #1	15.9 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.68	0.56	ug/kg	
319-84-6	alpha-BHC	ND	0.68	0.55	ug/kg	
319-85-7	beta-BHC	ND	0.68	0.61	ug/kg	
319-86-8	delta-BHC	ND	0.68	0.65	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.68	0.50	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.68	0.55	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.68	0.31	ug/kg	
60-57-1	Dieldrin	ND	0.68	0.46	ug/kg	
72-54-8	4,4' -DDD	ND	0.68	0.62	ug/kg	
72-55-9	4,4' -DDE	ND	0.68	0.59	ug/kg	
50-29-3	4,4' -DDT	ND	0.68	0.60	ug/kg	
72-20-8	Endrin	ND	0.68	0.52	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.68	0.53	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.68	0.38	ug/kg	
959-98-8	Endosulfan-I	ND	0.68	0.39	ug/kg	
33213-65-9	Endosulfan-II	ND	0.68	0.42	ug/kg	
76-44-8	Heptachlor	ND	0.68	0.58	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.68	0.47	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.54	ug/kg	
53494-70-5	Endrin ketone	ND	0.68	0.49	ug/kg	
8001-35-2	Toxaphene	ND	17	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	72%		13-162%
877-09-8	Tetrachloro-m-xylene	74%		13-162%
2051-24-3	Decachlorobiphenyl	79%		10-180%
2051-24-3	Decachlorobiphenyl	92%		10-180%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-02 1.0-1.5		
Lab Sample ID:	JE16543-3	Date Sampled:	08/05/25
Matrix:	SO - Soil	Date Received:	08/06/25
Method:	SW846 8082A SW846 3546	Percent Solids:	93.1
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2523964.D	1	08/08/25 06:01	CP	08/07/25 16:15	OP66087	GXX8923
Run #2							

	Initial Weight	Final Volume
Run #1	15.9 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	16	ug/kg	
11104-28-2	Aroclor 1221	ND	34	21	ug/kg	
11141-16-5	Aroclor 1232	ND	34	22	ug/kg	
53469-21-9	Aroclor 1242	ND	34	14	ug/kg	
12672-29-6	Aroclor 1248	ND	34	30	ug/kg	
11097-69-1	Aroclor 1254	ND	34	18	ug/kg	
11096-82-5	Aroclor 1260	ND	34	14	ug/kg	
11100-14-4	Aroclor 1268	ND	34	30	ug/kg	
37324-23-5	Aroclor 1262	ND	34	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		10-174%
877-09-8	Tetrachloro-m-xylene	72%		10-174%
2051-24-3	Decachlorobiphenyl	72%		10-195%
2051-24-3	Decachlorobiphenyl	70%		10-195%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-02 1.0-1.5	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-3	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	93.1
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	7.0	2.1	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁵
Barium	33.5	21	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁵
Cadmium ^a	< 1.0	1.0	mg/kg	2	08/08/25	08/12/25 LM	SW846 6010D ³	SW846 3050B ⁵
Chromium	14.9	1.0	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁵
Lead	15.5	2.1	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁵
Mercury	< 0.032	0.032	mg/kg	1	08/07/25	08/07/25 CM	SW846 7471B ¹	SW846 7471B ⁴
Selenium ^a	< 4.2	4.2	mg/kg	2	08/08/25	08/12/25 LM	SW846 6010D ³	SW846 3050B ⁵
Silver ^a	< 1.0	1.0	mg/kg	2	08/08/25	08/12/25 LM	SW846 6010D ³	SW846 3050B ⁵

- (1) Instrument QC Batch: MA59102
- (2) Instrument QC Batch: MA59119
- (3) Instrument QC Batch: MA59128
- (4) Prep QC Batch: MP56429
- (5) Prep QC Batch: MP56445

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SB-02 14.5-15.0	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-4	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	91.0
Method:	SW846 8260D SW846 5035		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I268164.D	1	08/07/25 20:13	PS	08/07/25 08:00	n/a	VI10769
Run #2							

	Initial Weight
Run #1	4.3 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	13	5.3	ug/kg	
71-43-2	Benzene	ND	0.64	0.58	ug/kg	
74-97-5	Bromochloromethane	ND	6.4	0.72	ug/kg	
75-27-4	Bromodichloromethane	ND	2.6	0.55	ug/kg	
75-25-2	Bromoform	ND	6.4	1.7	ug/kg	
74-83-9	Bromomethane	ND	6.4	0.98	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	3.1	ug/kg	
75-15-0	Carbon disulfide	ND	2.6	0.68	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.6	0.79	ug/kg	
108-90-7	Chlorobenzene	ND	2.6	0.59	ug/kg	
75-00-3	Chloroethane	ND	6.4	0.76	ug/kg	
67-66-3	Chloroform	ND	2.6	1.3	ug/kg	
74-87-3	Chloromethane	ND	6.4	2.5	ug/kg	
110-82-7	Cyclohexane	ND	2.6	0.84	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.6	0.89	ug/kg	
124-48-1	Dibromochloromethane	ND	2.6	0.72	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.54	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.3	0.70	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.3	0.63	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.3	0.63	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.4	0.93	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.3	0.63	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.60	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.3	0.84	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.3	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.3	0.78	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.6	0.60	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.6	0.61	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.6	0.58	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.58	ug/kg	
76-13-1	Freon 113	ND	6.4	3.4	ug/kg	
591-78-6	2-Hexanone	ND	6.4	2.7	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-02 14.5-15.0	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-4	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	91.0
Method:	SW846 8260D SW846 5035		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.6	1.8	ug/kg	
79-20-9	Methyl Acetate	ND	6.4	1.8	ug/kg	
108-87-2	Methylcyclohexane	ND	2.6	1.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.60	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.4	2.9	ug/kg	
75-09-2	Methylene chloride	ND	6.4	3.3	ug/kg	
100-42-5	Styrene	ND	2.6	0.51	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.6	0.77	ug/kg	
127-18-4	Tetrachloroethene	ND	2.6	0.74	ug/kg	
108-88-3	Toluene	ND	1.3	0.67	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.4	3.2	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.4	3.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.6	0.62	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.6	0.71	ug/kg	
79-01-6	Trichloroethene	ND	1.3	0.97	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.4	0.87	ug/kg	
75-01-4	Vinyl chloride	ND	2.6	0.61	ug/kg	
	m,p-Xylene	ND	1.3	1.1	ug/kg	
95-47-6	o-Xylene	ND	1.3	0.59	ug/kg	
1330-20-7	Xylene (total)	ND	1.3	0.59	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	119%		80-124%
17060-07-0	1,2-Dichloroethane-D4	107%		75-133%
2037-26-5	Toluene-D8	104%		79-125%
460-00-4	4-Bromofluorobenzene	94%		58-148%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-02 14.5-15.0	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-4	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	91.0
Method:	SW846 8270E SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P522122.D	1	08/11/25 13:45	AO	08/08/25 01:50	OP66072	E6P4449
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	72	18	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	31	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	64	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	180	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	180	39	ug/kg	
95-48-7	2-Methylphenol	ND	72	23	ug/kg	
	3&4-Methylphenol	ND	72	30	ug/kg	
88-75-5	2-Nitrophenol	ND	180	24	ug/kg	
100-02-7	4-Nitrophenol	ND	360	97	ug/kg	
87-86-5	Pentachlorophenol	ND	140	34	ug/kg	
108-95-2	Phenol	ND	72	19	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	24	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	22	ug/kg	
83-32-9	Acenaphthene	ND	36	12	ug/kg	
208-96-8	Acenaphthylene	ND	36	18	ug/kg	
98-86-2	Acetophenone	ND	180	7.8	ug/kg	
120-12-7	Anthracene	ND	36	22	ug/kg	
1912-24-9	Atrazine ^a	ND	72	15	ug/kg	
56-55-3	Benzo(a)anthracene	ND	36	10	ug/kg	
50-32-8	Benzo(a)pyrene	ND	36	16	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	36	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	36	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	36	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	72	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	72	8.8	ug/kg	
92-52-4	1,1'-Biphenyl	ND	72	5.0	ug/kg	
100-52-7	Benzaldehyde	ND	180	9.0	ug/kg	
91-58-7	2-Chloronaphthalene	ND	72	8.6	ug/kg	
106-47-8	4-Chloroaniline	ND	180	13	ug/kg	
86-74-8	Carbazole	ND	72	5.2	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-02 14.5-15.0	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-4	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	91.0
Method:	SW846 8270E SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	72	14	ug/kg	
218-01-9	Chrysene	ND	36	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	72	7.7	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	72	16	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	72	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	72	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	36	11	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	36	18	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	72	30	ug/kg	
123-91-1	1,4-Dioxane	ND	36	24	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	36	16	ug/kg	
132-64-9	Dibenzofuran	ND	72	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	72	5.9	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	72	9.0	ug/kg	
84-66-2	Diethyl phthalate	ND	72	7.7	ug/kg	
131-11-3	Dimethyl phthalate	ND	72	6.4	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	72	8.5	ug/kg	
206-44-0	Fluoranthene	ND	36	16	ug/kg	
86-73-7	Fluorene	ND	36	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	72	9.1	ug/kg	
87-68-3	Hexachlorobutadiene	ND	36	15	ug/kg	
77-47-4	Hexachlorocyclopentadiene ^b	ND	360	14	ug/kg	
67-72-1	Hexachloroethane	ND	180	18	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	36	17	ug/kg	
78-59-1	Isophorone	ND	72	7.7	ug/kg	
91-57-6	2-Methylnaphthalene	ND	36	8.2	ug/kg	
88-74-4	2-Nitroaniline	ND	180	8.5	ug/kg	
99-09-2	3-Nitroaniline	ND	180	9.0	ug/kg	
100-01-6	4-Nitroaniline	ND	180	9.4	ug/kg	
91-20-3	Naphthalene	ND	36	10	ug/kg	
98-95-3	Nitrobenzene	ND	72	14	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	72	10	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	13	ug/kg	
85-01-8	Phenanthrene	ND	36	12	ug/kg	
129-00-0	Pyrene	ND	36	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	9.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		10-99%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-02 14.5-15.0	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-4	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	91.0
Method:	SW846 8270E SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	40%		10-96%
118-79-6	2,4,6-Tribromophenol	38%		10-123%
4165-60-0	Nitrobenzene-d5	39%		10-109%
321-60-8	2-Fluorobiphenyl	41%		11-109%
1718-51-0	Terphenyl-d14	48%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-02 14.5-15.0	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-4	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	91.0
Method:	SW846 8081B SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G212181.D	1	08/08/25 07:24	CP	08/07/25 16:15	OP66086	G1G7670
Run #2							

	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.70	0.58	ug/kg	
319-84-6	alpha-BHC	ND	0.70	0.57	ug/kg	
319-85-7	beta-BHC	ND	0.70	0.63	ug/kg	
319-86-8	delta-BHC	ND	0.70	0.67	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.70	0.52	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.70	0.56	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.70	0.32	ug/kg	
60-57-1	Dieldrin	ND	0.70	0.48	ug/kg	
72-54-8	4,4' -DDD	ND	0.70	0.64	ug/kg	
72-55-9	4,4' -DDE	ND	0.70	0.61	ug/kg	
50-29-3	4,4' -DDT	ND	0.70	0.62	ug/kg	
72-20-8	Endrin	ND	0.70	0.54	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.70	0.55	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.70	0.40	ug/kg	
959-98-8	Endosulfan-I	ND	0.70	0.40	ug/kg	
33213-65-9	Endosulfan-II	ND	0.70	0.44	ug/kg	
76-44-8	Heptachlor	ND	0.70	0.60	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.70	0.49	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.56	ug/kg	
53494-70-5	Endrin ketone	ND	0.70	0.51	ug/kg	
8001-35-2	Toxaphene	ND	17	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	69%		13-162%
877-09-8	Tetrachloro-m-xylene	71%		13-162%
2051-24-3	Decachlorobiphenyl	80%		10-180%
2051-24-3	Decachlorobiphenyl	89%		10-180%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-02 14.5-15.0	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-4	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	91.0
Method:	SW846 8082A SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2523965.D	1	08/08/25 06:20	CP	08/07/25 16:15	OP66087	GXX8923
Run #2							

	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	16	ug/kg	
11104-28-2	Aroclor 1221	ND	35	22	ug/kg	
11141-16-5	Aroclor 1232	ND	35	22	ug/kg	
53469-21-9	Aroclor 1242	ND	35	14	ug/kg	
12672-29-6	Aroclor 1248	ND	35	31	ug/kg	
11097-69-1	Aroclor 1254	ND	35	19	ug/kg	
11096-82-5	Aroclor 1260	ND	35	15	ug/kg	
11100-14-4	Aroclor 1268	ND	35	31	ug/kg	
37324-23-5	Aroclor 1262	ND	35	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	69%		10-174%
877-09-8	Tetrachloro-m-xylene	67%		10-174%
2051-24-3	Decachlorobiphenyl	68%		10-195%
2051-24-3	Decachlorobiphenyl	66%		10-195%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-02 14.5-15.0	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-4	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	91.0
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analized By	Method	Prep Method
Arsenic	5.3	2.2	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁴
Barium	26.2	22	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁴
Cadmium	< 0.56	0.56	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁴
Chromium	14.4	1.1	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁴
Lead	10.8	2.2	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁴
Mercury	< 0.032	0.032	mg/kg	1	08/07/25	08/07/25 CM	SW846 7471B ¹	SW846 7471B ³
Selenium	< 2.2	2.2	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁴
Silver	< 0.56	0.56	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁴

- (1) Instrument QC Batch: MA59102
- (2) Instrument QC Batch: MA59119
- (3) Prep QC Batch: MP56429
- (4) Prep QC Batch: MP56445

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SB-03 5.5-6.0	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-5	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	92.8
Method:	SW846 8260D SW846 5035		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I268165.D	1	08/07/25 20:34	PS	08/07/25 08:00	n/a	VI10769
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	11	4.5	ug/kg	
71-43-2	Benzene	ND	0.54	0.49	ug/kg	
74-97-5	Bromochloromethane	ND	5.4	0.60	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	0.46	ug/kg	
75-25-2	Bromoform	ND	5.4	1.5	ug/kg	
74-83-9	Bromomethane	ND	5.4	0.82	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.6	ug/kg	
75-15-0	Carbon disulfide	ND	2.2	0.58	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	0.67	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	0.49	ug/kg	
75-00-3	Chloroethane	ND	5.4	0.64	ug/kg	
67-66-3	Chloroform	ND	2.2	1.1	ug/kg	
74-87-3	Chloromethane	ND	5.4	2.1	ug/kg	
110-82-7	Cyclohexane	ND	2.2	0.71	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.2	0.75	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	0.60	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.45	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.59	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.53	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.53	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.4	0.78	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.53	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.51	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.71	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.91	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.66	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	0.51	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	0.51	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	0.49	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.49	ug/kg	
76-13-1	Freon 113	ND	5.4	2.9	ug/kg	
591-78-6	2-Hexanone	ND	5.4	2.3	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-03 5.5-6.0	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-5	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	92.8
Method:	SW846 8260D SW846 5035		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.2	1.5	ug/kg	
79-20-9	Methyl Acetate	ND	5.4	1.5	ug/kg	
108-87-2	Methylcyclohexane	ND	2.2	0.94	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.51	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.4	2.4	ug/kg	
75-09-2	Methylene chloride	ND	5.4	2.8	ug/kg	
100-42-5	Styrene	ND	2.2	0.43	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	0.65	ug/kg	
127-18-4	Tetrachloroethene	ND	2.2	0.63	ug/kg	
108-88-3	Toluene	ND	1.1	0.57	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.4	2.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	2.7	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	0.52	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	0.60	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.82	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.4	0.74	ug/kg	
75-01-4	Vinyl chloride	ND	2.2	0.52	ug/kg	
	m,p-Xylene	ND	1.1	0.97	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.49	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.49	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	118%		80-124%
17060-07-0	1,2-Dichloroethane-D4	109%		75-133%
2037-26-5	Toluene-D8	103%		79-125%
460-00-4	4-Bromofluorobenzene	93%		58-148%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-03 5.5-6.0	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-5	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	92.8
Method:	SW846 8270E SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P522133.D	1	08/11/25 17:47	AO	08/08/25 01:50	OP66072	E6P4449
Run #2							

	Initial Weight	Final Volume
Run #1	31.1 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	69	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	30	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	62	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	37	ug/kg	
95-48-7	2-Methylphenol	ND	69	22	ug/kg	
	3&4-Methylphenol	ND	69	28	ug/kg	
88-75-5	2-Nitrophenol	ND	170	23	ug/kg	
100-02-7	4-Nitrophenol	ND	350	93	ug/kg	
87-86-5	Pentachlorophenol	ND	140	33	ug/kg	
108-95-2	Phenol	ND	69	18	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	23	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	26	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	21	ug/kg	
83-32-9	Acenaphthene	ND	35	12	ug/kg	
208-96-8	Acenaphthylene	ND	35	18	ug/kg	
98-86-2	Acetophenone	ND	170	7.4	ug/kg	
120-12-7	Anthracene	ND	35	21	ug/kg	
1912-24-9	Atrazine ^a	ND	69	15	ug/kg	
56-55-3	Benzo(a)anthracene	ND	35	9.8	ug/kg	
50-32-8	Benzo(a)pyrene	ND	35	16	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	35	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	35	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	35	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	69	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	69	8.5	ug/kg	
92-52-4	1,1'-Biphenyl	ND	69	4.7	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.6	ug/kg	
91-58-7	2-Chloronaphthalene	ND	69	8.2	ug/kg	
106-47-8	4-Chloroaniline	ND	170	12	ug/kg	
86-74-8	Carbazole	ND	69	5.0	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-03 5.5-6.0	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-5	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	92.8
Method:	SW846 8270E SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	69	14	ug/kg	
218-01-9	Chrysene	ND	35	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	69	7.4	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	69	15	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	69	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	69	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	35	11	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	35	17	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	69	29	ug/kg	
123-91-1	1,4-Dioxane	ND	35	23	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	35	15	ug/kg	
132-64-9	Dibenzofuran	ND	69	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	69	5.6	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	69	8.6	ug/kg	
84-66-2	Diethyl phthalate	ND	69	7.4	ug/kg	
131-11-3	Dimethyl phthalate	ND	69	6.2	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	69	8.1	ug/kg	
206-44-0	Fluoranthene	ND	35	15	ug/kg	
86-73-7	Fluorene	ND	35	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	69	8.8	ug/kg	
87-68-3	Hexachlorobutadiene	ND	35	14	ug/kg	
77-47-4	Hexachlorocyclopentadiene ^b	ND	350	14	ug/kg	
67-72-1	Hexachloroethane	ND	170	17	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	35	16	ug/kg	
78-59-1	Isophorone	ND	69	7.4	ug/kg	
91-57-6	2-Methylnaphthalene	ND	35	7.8	ug/kg	
88-74-4	2-Nitroaniline	ND	170	8.2	ug/kg	
99-09-2	3-Nitroaniline	ND	170	8.7	ug/kg	
100-01-6	4-Nitroaniline	ND	170	9.0	ug/kg	
91-20-3	Naphthalene	ND	35	9.8	ug/kg	
98-95-3	Nitrobenzene	ND	69	13	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	69	10	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	13	ug/kg	
85-01-8	Phenanthrene	ND	35	12	ug/kg	
129-00-0	Pyrene	ND	35	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	8.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		10-99%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-03 5.5-6.0	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-5	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	92.8
Method:	SW846 8270E SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	47%		10-96%
118-79-6	2,4,6-Tribromophenol	45%		10-123%
4165-60-0	Nitrobenzene-d5	49%		10-109%
321-60-8	2-Fluorobiphenyl	51%		11-109%
1718-51-0	Terphenyl-d14	51%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
57-10-3	n-Hexadecanoic acid	8.03	150	ug/kg	JN
	Unknown acid	8.68	380	ug/kg	J
	Unknown acid	8.75	140	ug/kg	J
	Unknown	9.81	150	ug/kg	J
	Unknown	9.83	270	ug/kg	J
	Unknown	10.43	210	ug/kg	J
	Unknown	10.58	580	ug/kg	J
	Unknown	11.33	590	ug/kg	J
	Total TIC, Semi-Volatile		2470	ug/kg	J

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-03 5.5-6.0	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-5	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	92.8
Method:	SW846 8081B SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G212182.D	1	08/08/25 07:41	CP	08/07/25 16:15	OP66086	G1G7670
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.71	0.59	ug/kg	
319-84-6	alpha-BHC	ND	0.71	0.58	ug/kg	
319-85-7	beta-BHC	ND	0.71	0.65	ug/kg	
319-86-8	delta-BHC	ND	0.71	0.69	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.71	0.53	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.71	0.58	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.71	0.32	ug/kg	
60-57-1	Dieldrin	ND	0.71	0.49	ug/kg	
72-54-8	4,4' -DDD	ND	0.71	0.66	ug/kg	
72-55-9	4,4' -DDE	ND	0.71	0.63	ug/kg	
50-29-3	4,4' -DDT	ND	0.71	0.63	ug/kg	
72-20-8	Endrin	ND	0.71	0.55	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.71	0.56	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.71	0.40	ug/kg	
959-98-8	Endosulfan-I	ND	0.71	0.41	ug/kg	
33213-65-9	Endosulfan-II	ND	0.71	0.45	ug/kg	
76-44-8	Heptachlor	ND	0.71	0.62	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.71	0.50	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.57	ug/kg	
53494-70-5	Endrin ketone	ND	0.71	0.52	ug/kg	
8001-35-2	Toxaphene	ND	18	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	55%		13-162%
877-09-8	Tetrachloro-m-xylene	57%		13-162%
2051-24-3	Decachlorobiphenyl	56%		10-180%
2051-24-3	Decachlorobiphenyl	63%		10-180%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-03 5.5-6.0	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-5	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	92.8
Method:	SW846 8082A SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2523966.D	1	08/08/25 06:39	CP	08/07/25 16:15	OP66087	GXX8923
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	17	ug/kg	
11104-28-2	Aroclor 1221	ND	36	22	ug/kg	
11141-16-5	Aroclor 1232	ND	36	23	ug/kg	
53469-21-9	Aroclor 1242	ND	36	15	ug/kg	
12672-29-6	Aroclor 1248	ND	36	32	ug/kg	
11097-69-1	Aroclor 1254	ND	36	19	ug/kg	
11096-82-5	Aroclor 1260	ND	36	15	ug/kg	
11100-14-4	Aroclor 1268	ND	36	31	ug/kg	
37324-23-5	Aroclor 1262	ND	36	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	57%		10-174%
877-09-8	Tetrachloro-m-xylene	56%		10-174%
2051-24-3	Decachlorobiphenyl	51%		10-195%
2051-24-3	Decachlorobiphenyl	49%		10-195%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-03 5.5-6.0	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-5	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	92.8
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	7.4	2.2	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁵
Barium	35.6	22	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁵
Cadmium ^a	< 1.1	1.1	mg/kg	2	08/08/25	08/12/25 LM	SW846 6010D ³	SW846 3050B ⁵
Chromium	17.3	1.1	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁵
Lead	18.5	2.2	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁵
Mercury	< 0.031	0.031	mg/kg	1	08/07/25	08/07/25 CM	SW846 7471B ¹	SW846 7471B ⁴
Selenium ^a	< 4.3	4.3	mg/kg	2	08/08/25	08/12/25 LM	SW846 6010D ³	SW846 3050B ⁵
Silver ^a	< 1.1	1.1	mg/kg	2	08/08/25	08/12/25 LM	SW846 6010D ³	SW846 3050B ⁵

- (1) Instrument QC Batch: MA59102
- (2) Instrument QC Batch: MA59119
- (3) Instrument QC Batch: MA59128
- (4) Prep QC Batch: MP56429
- (5) Prep QC Batch: MP56445

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SB-03 18.7-19.2	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-6	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	91.6
Method:	SW846 8260D SW846 5035		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I268166.D	1	08/07/25 20:56	PS	08/07/25 08:00	n/a	VI10769
Run #2							

	Initial Weight
Run #1	3.8 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	7.4	14	5.9	ug/kg	J
71-43-2	Benzene	ND	0.72	0.65	ug/kg	
74-97-5	Bromochloromethane	ND	7.2	0.80	ug/kg	
75-27-4	Bromodichloromethane	ND	2.9	0.62	ug/kg	
75-25-2	Bromoform	ND	7.2	2.0	ug/kg	
74-83-9	Bromomethane	ND	7.2	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	3.5	ug/kg	
75-15-0	Carbon disulfide	ND	2.9	0.77	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.9	0.89	ug/kg	
108-90-7	Chlorobenzene	ND	2.9	0.66	ug/kg	
75-00-3	Chloroethane	ND	7.2	0.85	ug/kg	
67-66-3	Chloroform	ND	2.9	1.4	ug/kg	
74-87-3	Chloromethane	ND	7.2	2.8	ug/kg	
110-82-7	Cyclohexane	ND	2.9	0.94	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.9	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	2.9	0.80	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.4	0.60	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.4	0.78	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.4	0.71	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.4	0.71	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	7.2	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.4	0.71	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.4	0.68	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.4	0.94	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.4	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	0.88	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.9	0.68	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.9	0.68	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.9	0.66	ug/kg	
100-41-4	Ethylbenzene	ND	1.4	0.65	ug/kg	
76-13-1	Freon 113	ND	7.2	3.8	ug/kg	
591-78-6	2-Hexanone	ND	7.2	3.0	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-03 18.7-19.2	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-6	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	91.6
Method:	SW846 8260D SW846 5035		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.9	2.0	ug/kg	
79-20-9	Methyl Acetate	ND	7.2	2.0	ug/kg	
108-87-2	Methylcyclohexane	ND	2.9	1.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.4	0.67	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	7.2	3.3	ug/kg	
75-09-2	Methylene chloride	ND	7.2	3.7	ug/kg	
100-42-5	Styrene	ND	2.9	0.58	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.9	0.86	ug/kg	
127-18-4	Tetrachloroethene	ND	2.9	0.83	ug/kg	
108-88-3	Toluene	ND	1.4	0.75	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	7.2	3.6	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.2	3.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.9	0.69	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.9	0.80	ug/kg	
79-01-6	Trichloroethene	ND	1.4	1.1	ug/kg	
75-69-4	Trichlorofluoromethane	ND	7.2	0.98	ug/kg	
75-01-4	Vinyl chloride	ND	2.9	0.69	ug/kg	
	m,p-Xylene	ND	1.4	1.3	ug/kg	
95-47-6	o-Xylene	ND	1.4	0.66	ug/kg	
1330-20-7	Xylene (total)	ND	1.4	0.66	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	119%		80-124%
17060-07-0	1,2-Dichloroethane-D4	110%		75-133%
2037-26-5	Toluene-D8	102%		79-125%
460-00-4	4-Bromofluorobenzene	94%		58-148%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) Associated CCV outside of control limits high.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-03 18.7-19.2	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-6	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	91.6
Method:	SW846 8270E SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P522123.D	1	08/11/25 14:04	AO	08/08/25 01:50	OP66072	E6P4449
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	72	18	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	31	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	64	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	180	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	180	39	ug/kg	
95-48-7	2-Methylphenol	ND	72	23	ug/kg	
	3&4-Methylphenol	ND	72	30	ug/kg	
88-75-5	2-Nitrophenol	ND	180	24	ug/kg	
100-02-7	4-Nitrophenol	ND	360	97	ug/kg	
87-86-5	Pentachlorophenol	ND	140	34	ug/kg	
108-95-2	Phenol	ND	72	19	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	24	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	22	ug/kg	
83-32-9	Acenaphthene	ND	36	12	ug/kg	
208-96-8	Acenaphthylene	ND	36	18	ug/kg	
98-86-2	Acetophenone	ND	180	7.8	ug/kg	
120-12-7	Anthracene	ND	36	22	ug/kg	
1912-24-9	Atrazine ^a	ND	72	15	ug/kg	
56-55-3	Benzo(a)anthracene	ND	36	10	ug/kg	
50-32-8	Benzo(a)pyrene	ND	36	16	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	36	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	36	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	36	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	72	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	72	8.8	ug/kg	
92-52-4	1,1'-Biphenyl	ND	72	5.0	ug/kg	
100-52-7	Benzaldehyde	ND	180	9.0	ug/kg	
91-58-7	2-Chloronaphthalene	ND	72	8.6	ug/kg	
106-47-8	4-Chloroaniline	ND	180	13	ug/kg	
86-74-8	Carbazole	ND	72	5.2	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-03 18.7-19.2	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-6	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	91.6
Method:	SW846 8270E SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	72	14	ug/kg	
218-01-9	Chrysene	ND	36	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	72	7.7	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	72	16	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	72	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	72	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	36	11	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	36	18	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	72	30	ug/kg	
123-91-1	1,4-Dioxane	ND	36	24	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	36	16	ug/kg	
132-64-9	Dibenzofuran	ND	72	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	72	5.9	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	72	9.0	ug/kg	
84-66-2	Diethyl phthalate	ND	72	7.7	ug/kg	
131-11-3	Dimethyl phthalate	ND	72	6.4	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	72	8.5	ug/kg	
206-44-0	Fluoranthene	ND	36	16	ug/kg	
86-73-7	Fluorene	ND	36	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	72	9.1	ug/kg	
87-68-3	Hexachlorobutadiene	ND	36	15	ug/kg	
77-47-4	Hexachlorocyclopentadiene ^b	ND	360	14	ug/kg	
67-72-1	Hexachloroethane	ND	180	18	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	36	17	ug/kg	
78-59-1	Isophorone	ND	72	7.7	ug/kg	
91-57-6	2-Methylnaphthalene	ND	36	8.2	ug/kg	
88-74-4	2-Nitroaniline	ND	180	8.5	ug/kg	
99-09-2	3-Nitroaniline	ND	180	9.0	ug/kg	
100-01-6	4-Nitroaniline	ND	180	9.4	ug/kg	
91-20-3	Naphthalene	ND	36	10	ug/kg	
98-95-3	Nitrobenzene	ND	72	14	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	72	10	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	13	ug/kg	
85-01-8	Phenanthrene	ND	36	12	ug/kg	
129-00-0	Pyrene	ND	36	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	9.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		10-99%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-03 18.7-19.2	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-6	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	91.6
Method:	SW846 8270E SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	42%		10-96%
118-79-6	2,4,6-Tribromophenol	33%		10-123%
4165-60-0	Nitrobenzene-d5	44%		10-109%
321-60-8	2-Fluorobiphenyl	48%		11-109%
1718-51-0	Terphenyl-d14	47%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-03 18.7-19.2	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-6	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	91.6
Method:	SW846 8081B SW846 3546		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G212183.D	1	08/08/25 07:58	CP	08/07/25 16:15	OP66086	G1G7670
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.73	0.60	ug/kg	
319-84-6	alpha-BHC	ND	0.73	0.59	ug/kg	
319-85-7	beta-BHC	ND	0.73	0.66	ug/kg	
319-86-8	delta-BHC	ND	0.73	0.70	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.73	0.54	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.73	0.59	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.73	0.33	ug/kg	
60-57-1	Dieldrin	ND	0.73	0.50	ug/kg	
72-54-8	4,4' -DDD	ND	0.73	0.67	ug/kg	
72-55-9	4,4' -DDE	ND	0.73	0.64	ug/kg	
50-29-3	4,4' -DDT	ND	0.73	0.64	ug/kg	
72-20-8	Endrin	ND	0.73	0.57	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.73	0.57	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.73	0.41	ug/kg	
959-98-8	Endosulfan-I	ND	0.73	0.42	ug/kg	
33213-65-9	Endosulfan-II	ND	0.73	0.45	ug/kg	
76-44-8	Heptachlor	ND	0.73	0.63	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.73	0.51	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.58	ug/kg	
53494-70-5	Endrin ketone	ND	0.73	0.53	ug/kg	
8001-35-2	Toxaphene	ND	18	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	60%		13-162%
877-09-8	Tetrachloro-m-xylene	61%		13-162%
2051-24-3	Decachlorobiphenyl	68%		10-180%
2051-24-3	Decachlorobiphenyl	75%		10-180%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-03 18.7-19.2		
Lab Sample ID:	JE16543-6	Date Sampled:	08/05/25
Matrix:	SO - Soil	Date Received:	08/06/25
Method:	SW846 8082A SW846 3546	Percent Solids:	91.6
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2523967.D	1	08/08/25 06:58	CP	08/07/25 16:15	OP66087	GXX8923
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	17	ug/kg	
11104-28-2	Aroclor 1221	ND	36	23	ug/kg	
11141-16-5	Aroclor 1232	ND	36	23	ug/kg	
53469-21-9	Aroclor 1242	ND	36	15	ug/kg	
12672-29-6	Aroclor 1248	ND	36	32	ug/kg	
11097-69-1	Aroclor 1254	ND	36	20	ug/kg	
11096-82-5	Aroclor 1260	ND	36	16	ug/kg	
11100-14-4	Aroclor 1268	ND	36	32	ug/kg	
37324-23-5	Aroclor 1262	ND	36	24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	59%		10-174%
877-09-8	Tetrachloro-m-xylene	57%		10-174%
2051-24-3	Decachlorobiphenyl	56%		10-195%
2051-24-3	Decachlorobiphenyl	54%		10-195%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-03 18.7-19.2	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-6	Date Received:	08/06/25
Matrix:	SO - Soil	Percent Solids:	91.6
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	6.4	2.2	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁵
Barium	33.8	22	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁵
Cadmium ^a	< 1.1	1.1	mg/kg	2	08/08/25	08/12/25 LM	SW846 6010D ³	SW846 3050B ⁵
Chromium	18.1	1.1	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁵
Lead	12.8	2.2	mg/kg	1	08/08/25	08/09/25 LM	SW846 6010D ²	SW846 3050B ⁵
Mercury	0.039	0.030	mg/kg	1	08/07/25	08/07/25 CM	SW846 7471B ¹	SW846 7471B ⁴
Selenium ^a	< 4.3	4.3	mg/kg	2	08/08/25	08/12/25 LM	SW846 6010D ³	SW846 3050B ⁵
Silver ^a	< 1.1	1.1	mg/kg	2	08/08/25	08/12/25 LM	SW846 6010D ³	SW846 3050B ⁵

- (1) Instrument QC Batch: MA59102
 - (2) Instrument QC Batch: MA59119
 - (3) Instrument QC Batch: MA59128
 - (4) Prep QC Batch: MP56429
 - (5) Prep QC Batch: MP56445
- (a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TB	
Lab Sample ID:	JE16543-7	Date Sampled: 08/05/25
Matrix:	AQ - Trip Blank Soil	Date Received: 08/06/25
Method:	SW846 8260D	Percent Solids: n/a
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2U78946.D	1	08/07/25 12:04	NW	n/a	n/a	V2U2772
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform ^a	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB	Date Sampled:	08/05/25
Lab Sample ID:	JE16543-7	Date Received:	08/06/25
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	97%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



Page 1 of 1

FED-EX Tracking #	Bottle Order Control #	PREM-CF-073125-155
SGS Quote #	SGS Job #	JE16543

4.1

EHS-A-QAC-0023-05 Rev. Date: 8/5/22

SGS COURIER

IR-100



SGS Sample Receipt Summary

Job Number: je16543

Client: CORNERSTONE ENVIRONMENTAL

Project: INTERSTATE WASTE SERVICES (IWS), 95 H

Date / Time Received: 8/6/2025 6:42:00 PM

Delivery Method: SGS COURIER

Airbill #'s:

Cooler Temps (Raw Measured) °C: Cooler 1: (3.8);

Cooler Temps (Corrected) °C: Cooler 1: (3.8);

Cooler Security

Y or N

1. Custody Seals Present: ☒ ☐

2. Custody Seals Intact: ☒ ☐

3. COC Present: ☒ ☐

4. Smpl Dates/Time OK: ☒ ☐

Cooler Temperature

Y or N

1. Temp criteria achieved: ☒ ☐

2. Cooler temp verification: IR-50

3. Cooler media: Ice (Bag)

4. No. Coolers: 1

Quality Control Preservation

Y or N N/A

1. Trip Blank present / cooler: ☐ ☒ ☐

2. Trip Blank listed on COC: ☐ ☒ ☐

3. Samples preserved properly: ☒ ☐ ☐

4. VOCs headspace free: ☐ ☐ ☐

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles: ☒ ☐

2. Container labeling complete: ☒ ☐

3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition

Y or N

1. Sample recvd within HT: ☒ ☐

2. All containers accounted for: ☒ ☐

3. Condition of sample: Intact

Sample Integrity - Instructions

Y or N N/A

1. Analysis requested is clear: ☒ ☐

2. Bottles received for unspecified tests: ☐ ☒

3. Sufficient volume recvd for analysis: ☒ ☐

4. Compositing instructions clear: ☐ ☐ ☒

5. Filtering instructions clear: ☐ ☐ ☒

Test Strip Lot #s:

pH 1-12: 231619

pH 12+: 203117A

Other: (Specify)

Comments

1). -7; Additional TB received and appended to the COC. Please confirm.

JE16543: Chain of Custody

Page 2 of 3

APPENDIX B-3: WATER WELL ANALYTICAL RESULTS

Summary of Potable Water Well Analytical Results
IWS Transfer Station
95 Hartley Road, Goshen, NY

Sample Date		May-23	Jul-24	MCL/GA Standard	Report Limit
Analyte	Unit	Value	Value		
Alkalinity, Total as CaCO ₃	mg/l	182	71.9	-	5
Chloride	mg/l	61.5	55.1	250/250	2
Fluoride	mg/l	<0.20	<0.20	2.2/1.5	0.2
Hardness, Total as CaCO ₃	mg/l	284	793	-	5
Nitrogen, Nitrate	mg/l	<0.11	<0.11	10/10	0.11
Nitrogen, Nitrate + Nitrite	mg/l	<0.10	<0.10	1/10	0.1
Nitrogen, Nitrite	mg/l	<0.010	<0.010	1/1	0.01
pH	su	7.16	6.61	6.5 - 8.5	
Solids, Total Dissolved	mg/l	337	392	-	10
Sulfate	mg/l	73.8	74.7	250/250	2
Turbidity	NTU	<0.30	<0.30	-	0.3
Antimony	ug/l	<6.0	<6.0	6/3	6
Arsenic	ug/l	<3.0	<3.0	10/25	3
Barium	ug/l	<200	<200	2000/1000	200
Beryllium	ug/l	<1.0	<1.0	4/3	1
Cadmium	ug/l	<0.50	<0.50	5/5	0.5
Chromium	ug/l	<10	<10	100/50	10
Copper	ug/l	70.4	6.6	1300/200	4
Iron	ug/l	<100	160	300/300	100
Lead	ug/l	<3.0	<3.0	15/25	3
Manganese	ug/l	241	772	300/300	15
Mercury	ug/l	<0.20	<0.20	2/0.7	0.2
Selenium	ug/l	<10	<10	50/10	10
Silver	ug/l	<10	<10	100/50	10
Sodium	ug/l	29200	27500	20000/20000	10000
Thallium	ug/l	<10	<10	2/0.5	10
Zinc	ug/l	85.5	<20	5000/2000	20
Benzene	ug/l	<0.5	<0.5	1	0.5
Ethylbenzene	ug/l	<1	<1	5	1
Toluene	ug/l	<1	<1	5	1
Xylene (total)	ug/l	<1	<1	5	1

Notes:

Shaded - Above MCL / GA Standard

mg/l - milligrams per liter

ug/l - micrograms per liter

su - Standard Units

NTU - Nephelometric Turbidity Unit

MCL - Maximum Contaminant Level

GA - NYS Fresh Groundwater

- No Standard

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Cornerstone Environmental Group, LLC

Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY

208-180500-003

SGS Job Number: JD64922

Sampling Date: 05/02/23

Report to:

Cornerstone Environmental
100 Crystal Run Road Suite 101
Middletown, NY 10941
Kristen.Thordahl@Cornerstoneeg.com

ATTN: Kristen Thordahl

Total number of pages in report: 11



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in blue ink.

David Chastain
General Manager

Client Service contact: Beth Stopen 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.



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Sample Summary

Cornerstone Environmental Group, LLC

Job No: JD64922

Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY
Project No: 208-180500-003

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
------------------	-------------------	---------	----------	---------------------	---------------------

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JD64922-1 05/02/23 08:30 BC 05/02/23 AQ Surface Water 001-05-02-2023

Summary of Hits

Page 1 of 1

Job Number: JD64922

Account: Cornerstone Environmental Group, LLC

Project: Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY

Collected: 05/02/23

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD64922-1	001-05-02-2023	<i>Recommended MCL</i>				
Copper		70.4	1300	4.0	ug/l	EPA 200.8
Manganese		241	300	15	ug/l	EPA 200.7
Sodium		29200	25000	10000	ug/l	EPA 200.7
Zinc		85.5	5000	20	ug/l	EPA 200.7
Alkalinity, Total as CaCO ₃ ^a		182		5.0	mg/l	SM2320 B-11
Chloride		61.5	250	2.0	mg/l	EPA 300/SW846 9056A
Hardness, Total as CaCO ₃		284		5.0	mg/l	SM2340 C-11
Solids, Total Dissolved		337		10	mg/l	SM2540 C-11/15
Sulfate		73.8	250	2.0	mg/l	EPA 300/SW846 9056A
pH ^b		7.16			su	SM4500H+ B-11

(a) Sample was titrated to a final pH of 4.5. Sample received with head space.

(b) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.8 Deg. C

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	001-05-02-2023	Date Sampled:	05/02/23
Lab Sample ID:	JD64922-1	Date Received:	05/02/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1K06333.D	1	05/10/23 01:53	NW	n/a	n/a	V1K183
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		80-120%
17060-07-0	1,2-Dichloroethane-D4	107%		80-120%
2037-26-5	Toluene-D8	106%		80-120%
460-00-4	4-Bromofluorobenzene	112%		82-114%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 001-05-02-2023

Lab Sample ID: JD64922-1

Matrix: AQ - Surface Water

Date Sampled: 05/02/23

Date Received: 05/02/23

Percent Solids: n/a

Project: Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY

Total Metals Analysis *MCL*

Analyte	Result	RL	Units	DF	Prep	Analized By	Method	Prep Method
Antimony	< 6.0 <i>6</i>	6.0	ug/l	1	05/04/23	05/05/23 ND	EPA 200.7 ³	EPA 200.7 ⁴
Arsenic	< 3.0 <i>10</i>	3.0	ug/l	1	05/04/23	05/05/23 ND	EPA 200.7 ³	EPA 200.7 ⁴
Barium	< 200 <i>2000</i>	200	ug/l	1	05/04/23	05/05/23 ND	EPA 200.7 ³	EPA 200.7 ⁴
Beryllium	< 1.0 <i>4</i>	1.0	ug/l	1	05/04/23	05/05/23 ND	EPA 200.7 ³	EPA 200.7 ⁴
Cadmium	< 0.50 <i>5</i>	0.50	ug/l	1	05/04/23	05/04/23 SF	EPA 200.8 ²	EPA 200.8 ⁵
Chromium	< 10 <i>100</i>	10	ug/l	1	05/04/23	05/05/23 ND	EPA 200.7 ³	EPA 200.7 ⁴
Copper	70.4 <i>1300</i>	4.0	ug/l	1	05/04/23	05/04/23 SF	EPA 200.8 ²	EPA 200.8 ⁵
Iron	< 100 <i>300</i>	100	ug/l	1	05/04/23	05/05/23 ND	EPA 200.7 ³	EPA 200.7 ⁴
Lead	< 3.0 <i>15</i>	3.0	ug/l	1	05/04/23	05/05/23 ND	EPA 200.7 ³	EPA 200.7 ⁴
Manganese	241 <i>300</i>	15	ug/l	1	05/04/23	05/05/23 ND	EPA 200.7 ³	EPA 200.7 ⁴
Mercury	< 0.20 <i>2</i>	0.20	ug/l	1	05/04/23	05/05/23 LM	EPA 245.1 ¹	EPA 245.1 ⁶
Selenium	< 10 <i>50</i>	10	ug/l	1	05/04/23	05/05/23 ND	EPA 200.7 ³	EPA 200.7 ⁴
Silver	< 10 <i>100</i>	10	ug/l	1	05/04/23	05/05/23 ND	EPA 200.7 ³	EPA 200.7 ⁴
Sodium	29200 <i>20,000</i>	10000	ug/l	1	05/04/23	05/05/23 ND	EPA 200.7 ³	EPA 200.7 ⁴
Thallium	< 10 <i>2</i>	10	ug/l	1	05/04/23	05/05/23 ND	EPA 200.7 ³	EPA 200.7 ⁴
Zinc	85.5 <i>5000</i>	20	ug/l	1	05/04/23	05/05/23 ND	EPA 200.7 ³	EPA 200.7 ⁴

(1) Instrument QC Batch: MA54121

(2) Instrument QC Batch: MA54126

(3) Instrument QC Batch: MA54128

(4) Prep QC Batch: MP39397

(5) Prep QC Batch: MP39400

(6) Prep QC Batch: MP39419

RL = Reporting Limit

Report of Analysis

Client Sample ID: 001-05-02-2023	Date Sampled: 05/02/23
Lab Sample ID: JD64922-1	Date Received: 05/02/23
Matrix: AQ - Surface Water	Percent Solids: n/a
Project: Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY	

General Chemistry

MCL

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO ₃ ^a	182	5.0	mg/l	1	05/04/23 16:51	MK	SM2320 B-11
Chloride	61.5 <i>250</i>	2.0	mg/l	1	05/04/23 17:24	JD	EPA 300/SW846 9056A
Fluoride	<0.20 <i>2.2</i>	0.20	mg/l	1	05/04/23 17:24	JD	EPA 300/SW846 9056A
Hardness, Total as CaCO ₃	284	5.0	mg/l	1	05/07/23 16:16	MK	SM2340 C-11
Nitrogen, Nitrate ^b	<0.11 <i>10</i>	0.11	mg/l	1	05/03/23 14:10	MP	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	<0.10 <i>1</i>	0.10	mg/l	1	05/03/23 13:19	MM	EPA 353.2/LACHAT
Nitrogen, Nitrite	<0.010 <i>1</i>	0.010	mg/l	1	05/03/23 14:10	MP	SM4500NO2 B-11
Solids, Total Dissolved	337	10	mg/l	1	05/04/23 17:04	AS	SM2540 C-11/15
Sulfate	73.8 <i>250</i>	2.0	mg/l	1	05/04/23 17:24	JD	EPA 300/SW846 9056A
Turbidity	<0.30 <i>1</i>	0.30	NTU	1	05/03/23 22:02	DB	EPA 180.1
pH ^c	7.16		su	1	05/04/23 22:01	MM	SM4500H+ B-11

(a) Sample was titrated to a final pH of 4.5. Sample received with head space.

(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

(c) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.8 Deg. C

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

[illegible]

4.1

SGS Sample Receipt Summary

Job Number: JD64922 Client: CORNERSTONE ENVIRONMENTAL Project: INTERSTATE WASTE SERVICES (IWS), 9
 Date / Time Received: 5/2/2023 9:50:00 PM Delivery Method: SGS Airbill #'s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (1.8);

Cooler Temps (Corrected) °C: Cooler 1: (1.6);

<u>Cooler Security</u>	<u>Y</u> <u>or</u> <u>N</u>		<u>Y</u> <u>or</u> <u>N</u>
1. Custody Seals Present:	☒ ☐	3. COC Present:	☒ ☐
2. Custody Seals Intact:	☒ ☐	4. Smpl Dates/Time OK	☒ ☐

<u>Cooler Temperature</u>	<u>Y</u> <u>or</u> <u>N</u>
1. Temp criteria achieved:	☒ ☐
2. Cooler temp verification:	<u>IR Gun</u>
3. Cooler media:	<u>Ice (Bag)</u>
4. No. Coolers:	<u>1</u>

<u>Quality Control Preservation</u>	<u>Y</u> <u>or</u> <u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	☐ ☒	☐
2. Trip Blank listed on COC:	☐ ☒	☐
3. Samples preserved properly:	☒ ☐	☐
4. VOCs headspace free:	☒ ☐	☐

<u>Sample Integrity - Documentation</u>	<u>Y</u> <u>or</u> <u>N</u>
1. Sample labels present on bottles:	☒ ☐
2. Container labeling complete:	☒ ☐
3. Sample container label / COC agree:	☒ ☐

<u>Sample Integrity - Condition</u>	<u>Y</u> <u>or</u> <u>N</u>
1. Sample recvd within HT:	☒ ☐
2. All containers accounted for:	☒ ☐
3. Condition of sample:	<u>Intact</u>

<u>Sample Integrity - Instructions</u>	<u>Y</u> <u>or</u> <u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	☒ ☐	☐
2. Bottles received for unspecified tests	☐ ☒	☐
3. Sufficient volume recvd for analysis:	☒ ☐	☐
4. Compositing instructions clear:	☐ ☐	☒
5. Filtering instructions clear:	☐ ☐	☒

Test Strip Lot #s:	pH 1-12: <u>231619</u>	pH 12+: <u>203117A</u>	Other: (Specify) _____
--------------------	------------------------	------------------------	------------------------

Comments

SM089-03
 Rev. Date 12/7/17

JD64922: Chain of Custody
 Page 2 of 2

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Cornerstone Environmental Group, LLC

Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY

208-180500-003

SGS Job Number: JD91822

Sampling Date: 07/08/24

Report to:

Cornerstone Environmental
100 Crystal Run Road Suite 101
Middletown, NY 10941
Kristen.Thordahl@Cornerstoneeg.com

ATTN: Kristen Thordahl

Total number of pages in report: 11



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

David Chastain
General Manager

Client Service contact: Beth Stopen 732-329-0200

Certifications: NJ(12129),NY(10983),CA,CO,CT,FL,HI,IL,IN,KY,LA (120428),MA,MD,ME,MN,NC,NH,NV, AK (UST-103),AZ (AZ0786),PA(68-00408),RI,SC,TX (T104704234),UT,VA,WA,WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

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4.1: Chain of Custody 10



Sample Summary

Cornerstone Environmental Group, LLC

Job No: JD91822

Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY
Project No: 208-180500-003

Sample Number	Collected		Matrix		Client Sample ID
	Date	Time By	Received	Code Type	

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JD91822-1	07/08/24	09:30 BC	07/09/24	AQ	Water	W-07-08-2024
-----------	----------	----------	----------	----	-------	--------------

Summary of Hits

Job Number: JD91822
Account: Cornerstone Environmental Group, LLC
Project: Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY
Collected: 07/08/24

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
JD91822-1	W-07-08-2024					
		Copper	6.6	4.0	ug/l	EPA 200.8
		Iron	160	100	ug/l	EPA 200.7
		Manganese	772	15	ug/l	EPA 200.7
		Sodium	27500	10000	ug/l	EPA 200.7
		Alkalinity, Total as CaCO3 ^a	71.9	5.0	mg/l	SM2320 B-11
		Chloride	55.1	2.0	mg/l	EPA 300/SW846 9056A
		Hardness, Total as CaCO3	793	5.0	mg/l	SM2340 C-11
		Solids, Total Dissolved	392	10	mg/l	SM2540 C-11/15
		Sulfate	74.7	2.0	mg/l	EPA 300/SW846 9056A
		pH ^b	6.61		su	SM4500H+ B-11

(a) Sample was titrated to a final pH of 4.5. Sample received with head space.
(b) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 17.9 Deg. C

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	W-07-08-2024	
Lab Sample ID:	JD91822-1	Date Sampled: 07/08/24
Matrix:	AQ - Water	Date Received: 07/09/24
Method:	SW846 8260D	Percent Solids: n/a
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2U67679.D	1	07/11/24 18:20	NW	n/a	n/a	V2U2490
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	96%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	95%		82-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	W-07-08-2024	Date Sampled:	07/08/24
Lab Sample ID:	JD91822-1	Date Received:	07/09/24
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	07/10/24	07/10/24	KP	EPA 200.7 ² EPA 200.7 ⁴
Arsenic	< 3.0	3.0	ug/l	1	07/10/24	07/10/24	KP	EPA 200.7 ² EPA 200.7 ⁴
Barium	< 200	200	ug/l	1	07/10/24	07/10/24	KP	EPA 200.7 ² EPA 200.7 ⁴
Beryllium	< 1.0	1.0	ug/l	1	07/10/24	07/10/24	KP	EPA 200.7 ² EPA 200.7 ⁴
Cadmium	< 0.50	0.50	ug/l	1	07/10/24	07/11/24	NV	EPA 200.8 ³ EPA 200.8 ⁵
Chromium	< 10	10	ug/l	1	07/10/24	07/10/24	KP	EPA 200.7 ² EPA 200.7 ⁴
Copper	6.6	4.0	ug/l	1	07/10/24	07/11/24	NV	EPA 200.8 ³ EPA 200.8 ⁵
Iron	160	100	ug/l	1	07/10/24	07/10/24	KP	EPA 200.7 ² EPA 200.7 ⁴
Lead	< 3.0	3.0	ug/l	1	07/10/24	07/10/24	KP	EPA 200.7 ² EPA 200.7 ⁴
Manganese	772	15	ug/l	1	07/10/24	07/10/24	KP	EPA 200.7 ² EPA 200.7 ⁴
Mercury	< 0.20	0.20	ug/l	1	07/10/24	07/11/24	MK	EPA 245.1 ¹ EPA 245.1 ⁶
Selenium	< 10	10	ug/l	1	07/10/24	07/10/24	KP	EPA 200.7 ² EPA 200.7 ⁴
Silver	< 10	10	ug/l	1	07/10/24	07/10/24	KP	EPA 200.7 ² EPA 200.7 ⁴
Sodium	27500	10000	ug/l	1	07/10/24	07/10/24	KP	EPA 200.7 ² EPA 200.7 ⁴
Thallium	< 10	10	ug/l	1	07/10/24	07/10/24	KP	EPA 200.7 ² EPA 200.7 ⁴
Zinc	< 20	20	ug/l	1	07/10/24	07/10/24	KP	EPA 200.7 ² EPA 200.7 ⁴

- (1) Instrument QC Batch: MA56446
- (2) Instrument QC Batch: MA56449
- (3) Instrument QC Batch: MA56461
- (4) Prep QC Batch: MP47754
- (5) Prep QC Batch: MP47755
- (6) Prep QC Batch: MP47789

RL = Reporting Limit

Report of Analysis

Client Sample ID:	W-07-08-2024	Date Sampled:	07/08/24
Lab Sample ID:	JD91822-1	Date Received:	07/09/24
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO ₃ ^a	71.9	5.0	mg/l	1	07/10/24 20:30	JOO	SM2320 B-11
Chloride	55.1	2.0	mg/l	1	07/11/24 00:57	SS	EPA 300/SW846 9056A
Fluoride	< 0.20	0.20	mg/l	1	07/11/24 00:57	SS	EPA 300/SW846 9056A
Hardness, Total as CaCO ₃	793	5.0	mg/l	1	07/11/24 19:45	JOO	SM2340 C-11
Nitrogen, Nitrate ^b	< 0.11	0.11	mg/l	1	07/10/24 17:53	JD	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	07/10/24 17:53	JD	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	07/09/24 14:00	JOO	SM4500NO2 B-11
Solids, Total Dissolved	392	10	mg/l	1	07/09/24 18:02	AS	SM2540 C-11/15
Sulfate	74.7	2.0	mg/l	1	07/11/24 00:57	SS	EPA 300/SW846 9056A
Turbidity	< 0.30	0.30	NTU	1	07/09/24 20:52	DB	EPA 180.1
pH ^c	6.61		su	1	07/09/24 18:13	DB	SM4500H+ B-11

- (a) Sample was titrated to a final pH of 4.5. Sample received with head space.
 (b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)
 (c) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 17.9 Deg. C

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



SGS Sample Receipt Summary

Job Number: JD91822 Client: CORNERSTONE ENVIRONMENTAL Project: INTERSTATE WASTE SERVICES (IWS),
Date / Time Received: 7/9/2024 10:40:00 AM Delivery Method: FEDEX Airbill #s:

Cooler Temps (Raw Measured) °C: Cooler 1: (0.3);

Cooler Temps (Corrected) °C: Cooler 1: (0.7);

Cooler Security Y or N Y or N
1. Custody Seals Present: [X] [] 3. COC Present: [X] []
2. Custody Seals Intact: [X] [] 4. Smpl Dates/Time OK [X] []

Cooler Temperature Y or N
1. Temp criteria achieved: [X] []
2. Cooler temp verification: IR-50
3. Cooler media: Ice (Bag)
4. No. Coolers: 1

Quality Control Preservation Y or N N/A
1. Trip Blank present / cooler: [] [X] []
2. Trip Blank listed on COC: [] [X] []
3. Samples preserved properly: [X] [] []
4. VOCs headspace free: [X] [] []

Sample Integrity - Documentation Y or N

1. Sample labels present on bottles: [X] []
2. Container labeling complete: [X] []
3. Sample container label / COC agree: [X] []

Sample Integrity - Condition Y or N

1. Sample recvd within HT: [X] []
2. All containers accounted for: [X] []
3. Condition of sample: Intact

Sample Integrity - Instructions Y or N N/A

1. Analysis requested is clear: [X] []
2. Bottles received for unspecified tests [] [X]
3. Sufficient volume recvd for analysis: [X] []
4. Compositing instructions clear: [] [] [X]
5. Filtering instructions clear: [] [] [X]

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

The results set forth herein are provided by SGS North America Inc.

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Automated Report

Technical Report for

Cornerstone Environmental Group, LLC

Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY

208-180500-003

SGS Job Number: JD91822R

Sampling Date: 07/08/24



Report to:

Cornerstone Environmental
100 Crystal Run Road Suite 101
Middletown, NY 10941
Kristen.Thordahl@Cornerstoneeg.com

ATTN: Kristen Thordahl

Total number of pages in report: **11**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.



David Chastain
General Manager

Client Service contact: Beth Stopen 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CO, CT, FL, HI, IL, IN, KY, LA (120428), MA, MD, ME, MN, NC, NH, NV, AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX (T104704234), UT, VA, WA, WV

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Test results relate only to samples analyzed.

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Sample Summary

Cornerstone Environmental Group, LLC

Job No: JD91822R

Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY
Project No: 208-180500-003

Sample Number	Collected		Matrix		Client Sample ID
	Date	Time By	Received	Code Type	

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JD91822-1R	07/08/24	09:30 BC	07/09/24	AQ	Water	W-07-08-2024
------------	----------	----------	----------	----	-------	--------------

Summary of Hits

Job Number: JD91822R
Account: Cornerstone Environmental Group, LLC
Project: Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY
Collected: 07/08/24

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Analyte						

JD91822-1R W-07-08-2024

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	W-07-08-2024		
Lab Sample ID:	JD91822-1R	Date Sampled:	07/08/24
Matrix:	AQ - Water	Date Received:	07/09/24
Method:	SW846 8260D	Percent Solids:	n/a
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2U67679R.D	1	07/11/24 18:20	NW	n/a	n/a	V2U2490
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane ^a	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	W-07-08-2024	Date Sampled:	07/08/24
Lab Sample ID:	JD91822-1R	Date Received:	07/09/24
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Interstate Waste Services (IWS), 95 Hartley Road, Goshen, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane ^a	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	96%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	95%		82-114%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	system artifact	.93	15	ug/l	J
	Total TIC, Volatile		0	ug/l	

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FED-EX Tracking # 7772 6586 3272
SGS Quote #

Bottle Origin Control #
SGS Job #

PEM-FW-07224-120
JD91822R

Client / Reporting Information		Project Information		Requested Analysis												Matrix Codes	
Company Name: Cornerstone Engineering and Geology, PLLC		Project Name: IWS (Goshen, NY)														DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank	
Street Address: 100 Crystal Run Road, Suite 101		Street: 95 Hartley Road															
City: Middletown, NY 10941		City: Goshen NY															
Project Contact: Kristen Thordahl kristen.thordahl@tetratech.com		Project #: 208-180500-003															
Phone #: 845-695-0225		Client Purchase Order #:															
Sampler(s) Name(s): Brittany Connolly		Project Manager: Kristen M. Thordahl															
Field ID / Point of Collection: W-07-08-2024		Collection: Date: 7/8/24 Time: 9:30 AM															
MEOH/DI Vial #:		Sampled by: BC															
		Grab (G) Comp (C):															
		Matrix: Water															
		# of bottles: 10															
		HCl															
		NaOH															
		HNO ₃															
		H ₂ SO ₄															
		NONE															
		DI Water															
		MEPH															
		ENCORE															
		Turbidity															
		pH															
		Hardness															
		Metals (See Below)															
		Benzene (SW 846, 8260D)															
		Ethylbenzene (SW 846, 8260D)															
		Toluene (SW 846, 8260D)															
		Xylene (SW 846, 8260D)															
		Alkalinity															
		Total Dissolve Solids															
		LAB USE ONLY															

Turn Around Time (Business Days):

Deliverable:

Comments / Special Instructions:

Note, 1 of the 2 bottles with HNO₃ preservative was inadvertently dumped out and refilled. Additional HNO₃ may need to be added to one of these bottles.

Total Recoverable Metals:

- Antimony
- Cadmium
- Chromium
- Copper
- Iron
- Lead
- Zinc
- Sulfate
- Chloride
- Arsenic
- Barium
- Beryllium
- Mercury
- Selenium
- Thallium
- Fluoride
- Manganese
- Sodium
- Nitrate
- Nitrite
- Iron + Manganese

Initial Assessment: 3PHK

Approved By (SGS PM): / Date:

Label Verification:

10 Business Days

5 Business Days

3 Business Days

2 Business Days

1 Business Day

Other

All data available via Lablink

Approval needed for 1-3 Business Day TAT

Commercial "A" = Results only; Commercial "B" = Results + QC Summary

Commercial "C" = Results + QC Summary + Partial Raw data

Commercial "A" (Level 1)

Commercial "B" (Level 2)

NJ Reduced (Level 3)

Full Tier I (Level 4)

Commercial "C"

NJ DKQP

NYASP Category A

NYASP Category B

MA MCP Criteria

CT RCP Criteria

State Forms

EDD Format

DOD-QSM5

Relinquished by: 1 Brittany Connolly

Date / Time: 7-8-24 12:00

Received By: 1 FED-EX

Relinquished by: 2

Date / Time: 7/9/24 10:40

Received By: 2 ALP

Relinquished by: 3

Date / Time:

Received By: 3

Relinquished by: 4

Date / Time:

Received By: 4

Relinquished by: 5

Date / Time:

Received By: 5

Custody Seal #

Intact

Not Intact

Preserved where applicable

Therm ID

On Ice

Cooler Temp: 0.31KSA

JD91822R: Chain of Custody

Page 1 of 3

SGS Sample Receipt Summary

Job Number: JD91822 Client: CORNERSTONE ENVIRONMENTAL Project: INTERSTATE WASTE SERVICES (IWS),
Date / Time Received: 7/9/2024 10:40:00 AM Delivery Method: FEDEX Airbill #s:

Cooler Temps (Raw Measured) °C: Cooler 1: (0.3);

Cooler Temps (Corrected) °C: Cooler 1: (0.7);

Cooler Security Y or N Y or N
1. Custody Seals Present: [X] [] 3. COC Present: [X] []
2. Custody Seals Intact: [X] [] 4. Smpl Dates/Time OK [X] []

Cooler Temperature Y or N
1. Temp criteria achieved: [X] []
2. Cooler temp verification: IR-50
3. Cooler media: Ice (Bag)
4. No. Coolers: 1

Quality Control Preservation Y or N N/A
1. Trip Blank present / cooler: [] [X] []
2. Trip Blank listed on COC: [] [X] []
3. Samples preserved properly: [X] [] []
4. VOCs headspace free: [X] [] []

Sample Integrity - Documentation Y or N

1. Sample labels present on bottles: [X] []
2. Container labeling complete: [X] []
3. Sample container label / COC agree: [X] []

Sample Integrity - Condition Y or N

1. Sample recvd within HT: [X] []
2. All containers accounted for: [X] []
3. Condition of sample: Intact

Sample Integrity - Instructions Y or N N/A

1. Analysis requested is clear: [X] []
2. Bottles received for unspecified tests [] [X]
3. Sufficient volume recvd for analysis: [X] []
4. Compositing instructions clear: [] [] [X]
5. Filtering instructions clear: [] [] [X]

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

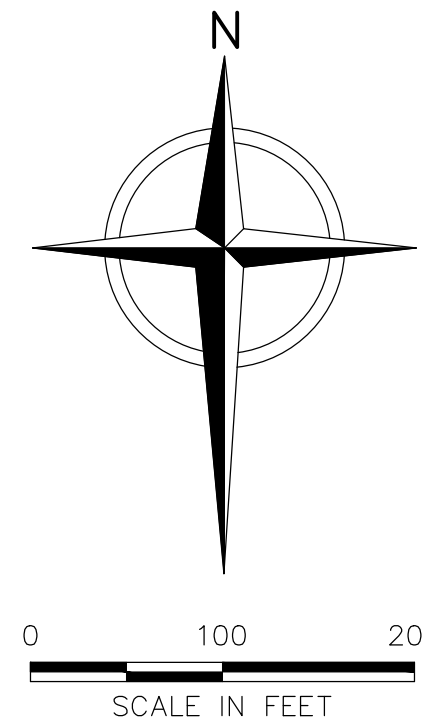
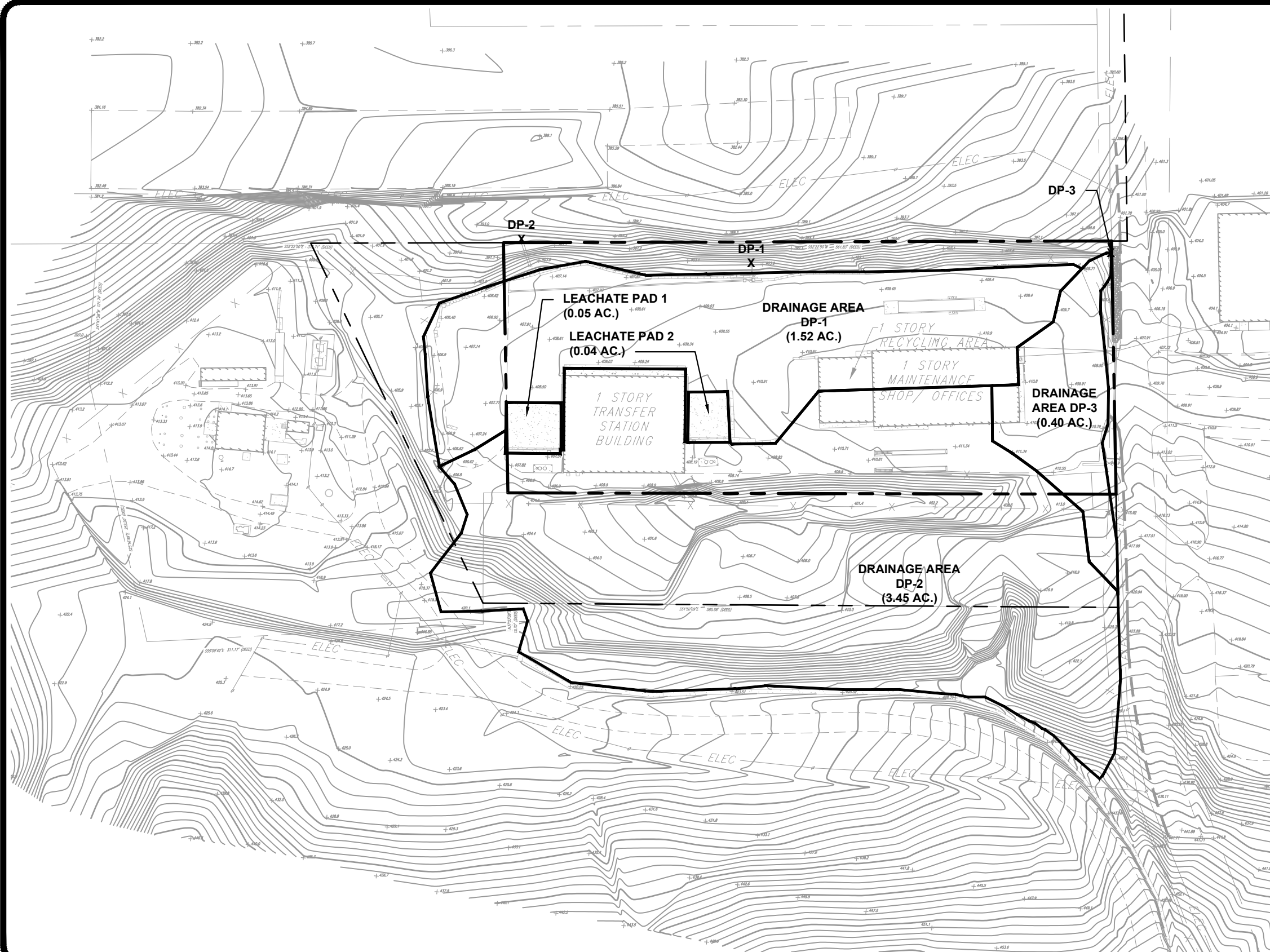
JD91822R: Chain of Custody
Page 3 of 3

Sample #:	JD91822-1	Dept:	
Client ID:	W-07-08-2024	TAT:	7
Change:	Relog/retrieve for VR8260TCL20+		

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

APPENDIX B-4: STORMWATER ANALYSIS

PRE-CONSTRUCTION STORMWATER ANALYSIS



REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
	DATE OF ISSUE SEPT. 2025	DRAWN BY DESIGNED BY	LC SSW	CHECKED BY APPROVED BY	KMT KMT	

**cornerstone**
PLLC

PREPARED BY:
CORNERSTONE ENGINEERING AND GEOLOGY, PLLC

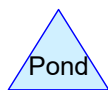
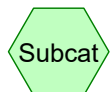
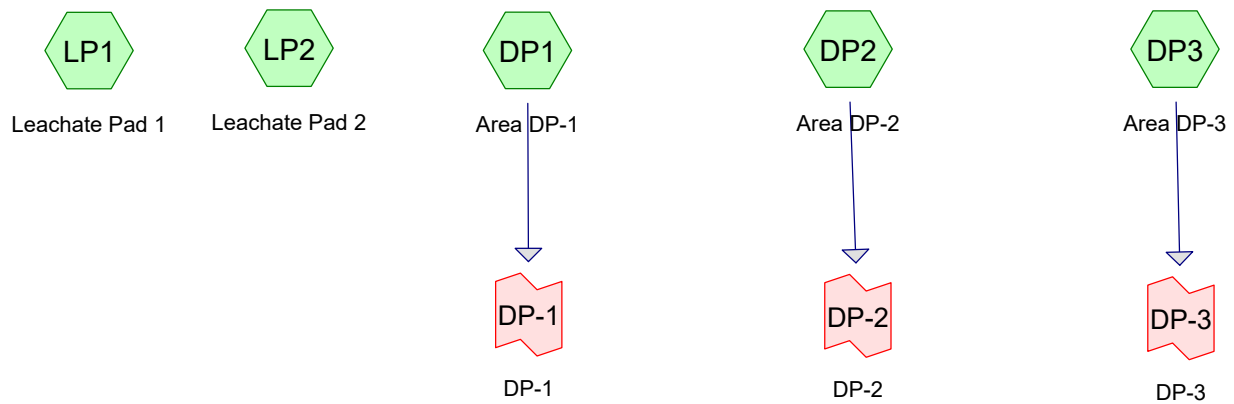
ALL PROFESSIONAL ENGINEERING WORK IS PERFORMED BY DULY LICENSED PROFESSIONAL ENGINEERS UNDER THE APPROPRIATE STATE REGISTERED PROFESSIONAL ENTITY.

I.W.S. TRANSFER SYSTEMS OF N.Y., INC.
GOSHEN – TRANSFER STATION UPGRADES
95 HARTLEY ROAD, GOSHEN, NEW YORK

PRE-CONSTRUCTION DRAINAGE AREA MAP

SHEET NO.
1

PROJECT NO.
4223429



Existing Conditions (9-10-2025)

Prepared by Tetra Tech

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Type III 24-hr 1 Yr Rainfall=2.95"

Printed 9/12/2025

Page 2

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment DP1: Area DP-1	Runoff Area=1.524 ac 100.00% Impervious Runoff Depth>2.54" Tc=6.0 min CN=98 Runoff=4.25 cfs 0.323 af
Subcatchment DP2: Area DP-2	Runoff Area=3.450 ac 22.72% Impervious Runoff Depth>0.15" Tc=6.0 min CN=55 Runoff=0.21 cfs 0.043 af
Subcatchment DP3: Area DP-3	Runoff Area=0.403 ac 75.93% Impervious Runoff Depth>1.58" Tc=6.0 min CN=87 Runoff=0.78 cfs 0.053 af
Subcatchment LP1: Leachate Pad 1	Runoff Area=0.055 ac 100.00% Impervious Runoff Depth>2.54" Tc=6.0 min CN=98 Runoff=0.15 cfs 0.012 af
Subcatchment LP2: Leachate Pad 2	Runoff Area=0.040 ac 100.00% Impervious Runoff Depth>2.54" Tc=6.0 min CN=98 Runoff=0.11 cfs 0.008 af
Link DP-1: DP-1	Inflow=4.25 cfs 0.323 af Primary=4.25 cfs 0.323 af
Link DP-2: DP-2	Inflow=0.21 cfs 0.043 af Primary=0.21 cfs 0.043 af
Link DP-3: DP-3	Inflow=0.78 cfs 0.053 af Primary=0.78 cfs 0.053 af

Total Runoff Area = 5.472 ac Runoff Volume = 0.439 af Average Runoff Depth = 0.96"
50.49% Pervious = 2.763 ac 49.51% Impervious = 2.709 ac

Existing Conditions (9-10-2025)

Prepared by Tetra Tech

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Type III 24-hr 1 Yr Rainfall=2.95"

Printed 9/12/2025

Page 3

Summary for Subcatchment DP1: Area DP-1

Runoff = 4.25 cfs @ 12.09 hrs, Volume= 0.323 af, Depth> 2.54"
 Routed to Link DP-1 : DP-1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 1 Yr Rainfall=2.95"

Area (ac)	CN	Description
1.524	98	Paved parking, HSG D
1.524		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment DP2: Area DP-2

Runoff = 0.21 cfs @ 12.38 hrs, Volume= 0.043 af, Depth> 0.15"
 Routed to Link DP-2 : DP-2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 1 Yr Rainfall=2.95"

Area (ac)	CN	Description
2.666	43	Woods/grass comb., Fair, HSG A
0.784	98	Paved parking, HSG D
3.450	55	Weighted Average
2.666		77.28% Pervious Area
0.784		22.72% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment DP3: Area DP-3

Runoff = 0.78 cfs @ 12.09 hrs, Volume= 0.053 af, Depth> 1.58"
 Routed to Link DP-3 : DP-3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 1 Yr Rainfall=2.95"

Area (ac)	CN	Description
0.306	98	Paved parking, HSG D
0.024	74	>75% Grass cover, Good, HSG C
0.073	43	Woods/grass comb., Fair, HSG A
0.403	87	Weighted Average
0.097		24.07% Pervious Area
0.306		75.93% Impervious Area

Existing Conditions (9-10-2025)

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Type III 24-hr 1 Yr Rainfall=2.95"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment LP1: Leachate Pad 1

Runoff = 0.15 cfs @ 12.09 hrs, Volume= 0.012 af, Depth> 2.54"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 1 Yr Rainfall=2.95"

Area (ac)	CN	Description
0.055	98	Paved parking, HSG D
0.055		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment LP2: Leachate Pad 2

Runoff = 0.11 cfs @ 12.09 hrs, Volume= 0.008 af, Depth> 2.54"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 1 Yr Rainfall=2.95"

Area (ac)	CN	Description
0.040	98	Paved parking, HSG D
0.040		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Link DP-1: DP-1

Inflow Area = 1.524 ac, 100.00% Impervious, Inflow Depth > 2.54" for 1 Yr event
 Inflow = 4.25 cfs @ 12.09 hrs, Volume= 0.323 af
 Primary = 4.25 cfs @ 12.09 hrs, Volume= 0.323 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link DP-2: DP-2

Inflow Area = 3.450 ac, 22.72% Impervious, Inflow Depth > 0.15" for 1 Yr event
 Inflow = 0.21 cfs @ 12.38 hrs, Volume= 0.043 af
 Primary = 0.21 cfs @ 12.38 hrs, Volume= 0.043 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Existing Conditions (9-10-2025)

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Type III 24-hr 1 Yr Rainfall=2.95"

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Summary for Link DP-3: DP-3

Inflow Area = 0.403 ac, 75.93% Impervious, Inflow Depth > 1.58" for 1 Yr event
Inflow = 0.78 cfs @ 12.09 hrs, Volume= 0.053 af
Primary = 0.78 cfs @ 12.09 hrs, Volume= 0.053 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Existing Conditions (9-10-2025)

Prepared by Tetra Tech

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Type III 24-hr 10 Yr Rainfall=5.26"

Printed 9/12/2025

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment DP1: Area DP-1	Runoff Area=1.524 ac 100.00% Impervious Runoff Depth>4.66" Tc=6.0 min CN=98 Runoff=7.66 cfs 0.591 af
Subcatchment DP2: Area DP-2	Runoff Area=3.450 ac 22.72% Impervious Runoff Depth>0.99" Tc=6.0 min CN=55 Runoff=3.69 cfs 0.286 af
Subcatchment DP3: Area DP-3	Runoff Area=0.403 ac 75.93% Impervious Runoff Depth>3.59" Tc=6.0 min CN=87 Runoff=1.73 cfs 0.121 af
Subcatchment LP1: Leachate Pad 1	Runoff Area=0.055 ac 100.00% Impervious Runoff Depth>4.66" Tc=6.0 min CN=98 Runoff=0.28 cfs 0.021 af
Subcatchment LP2: Leachate Pad 2	Runoff Area=0.040 ac 100.00% Impervious Runoff Depth>4.66" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.016 af
Link DP-1: DP-1	Inflow=7.66 cfs 0.591 af Primary=7.66 cfs 0.591 af
Link DP-2: DP-2	Inflow=3.69 cfs 0.286 af Primary=3.69 cfs 0.286 af
Link DP-3: DP-3	Inflow=1.73 cfs 0.121 af Primary=1.73 cfs 0.121 af

Total Runoff Area = 5.472 ac Runoff Volume = 1.035 af Average Runoff Depth = 2.27"
50.49% Pervious = 2.763 ac 49.51% Impervious = 2.709 ac

Existing Conditions (9-10-2025)

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Type III 24-hr 10 Yr Rainfall=5.26"

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Summary for Subcatchment DP1: Area DP-1

Runoff = 7.66 cfs @ 12.09 hrs, Volume= 0.591 af, Depth> 4.66"
Routed to Link DP-1 : DP-1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10 Yr Rainfall=5.26"

Area (ac)	CN	Description
1.524	98	Paved parking, HSG D
1.524		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment DP2: Area DP-2

Runoff = 3.69 cfs @ 12.11 hrs, Volume= 0.286 af, Depth> 0.99"
Routed to Link DP-2 : DP-2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10 Yr Rainfall=5.26"

Area (ac)	CN	Description
2.666	43	Woods/grass comb., Fair, HSG A
0.784	98	Paved parking, HSG D
3.450	55	Weighted Average
2.666		77.28% Pervious Area
0.784		22.72% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment DP3: Area DP-3

Runoff = 1.73 cfs @ 12.09 hrs, Volume= 0.121 af, Depth> 3.59"
Routed to Link DP-3 : DP-3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10 Yr Rainfall=5.26"

Area (ac)	CN	Description
0.306	98	Paved parking, HSG D
0.024	74	>75% Grass cover, Good, HSG C
0.073	43	Woods/grass comb., Fair, HSG A
0.403	87	Weighted Average
0.097		24.07% Pervious Area
0.306		75.93% Impervious Area

Existing Conditions (9-10-2025)

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Type III 24-hr 10 Yr Rainfall=5.26"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment LP1: Leachate Pad 1

Runoff = 0.28 cfs @ 12.09 hrs, Volume= 0.021 af, Depth> 4.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10 Yr Rainfall=5.26"

Area (ac)	CN	Description
0.055	98	Paved parking, HSG D
0.055		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment LP2: Leachate Pad 2

Runoff = 0.20 cfs @ 12.09 hrs, Volume= 0.016 af, Depth> 4.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10 Yr Rainfall=5.26"

Area (ac)	CN	Description
0.040	98	Paved parking, HSG D
0.040		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Link DP-1: DP-1

Inflow Area = 1.524 ac, 100.00% Impervious, Inflow Depth > 4.66" for 10 Yr event
 Inflow = 7.66 cfs @ 12.09 hrs, Volume= 0.591 af
 Primary = 7.66 cfs @ 12.09 hrs, Volume= 0.591 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link DP-2: DP-2

Inflow Area = 3.450 ac, 22.72% Impervious, Inflow Depth > 0.99" for 10 Yr event
 Inflow = 3.69 cfs @ 12.11 hrs, Volume= 0.286 af
 Primary = 3.69 cfs @ 12.11 hrs, Volume= 0.286 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Existing Conditions (9-10-2025)*Type III 24-hr 10 Yr Rainfall=5.26"*

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Summary for Link DP-3: DP-3

Inflow Area = 0.403 ac, 75.93% Impervious, Inflow Depth > 3.59" for 10 Yr event
Inflow = 1.73 cfs @ 12.09 hrs, Volume= 0.121 af
Primary = 1.73 cfs @ 12.09 hrs, Volume= 0.121 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Existing Conditions (9-10-2025)

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Type III 24-hr 100 Yr Rainfall=9.48"

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment DP1: Area DP-1	Runoff Area=1.524 ac 100.00% Impervious Runoff Depth>8.49" Tc=6.0 min CN=98 Runoff=13.86 cfs 1.078 af
Subcatchment DP2: Area DP-2	Runoff Area=3.450 ac 22.72% Impervious Runoff Depth>3.53" Tc=6.0 min CN=55 Runoff=14.98 cfs 1.016 af
Subcatchment DP3: Area DP-3	Runoff Area=0.403 ac 75.93% Impervious Runoff Depth>7.46" Tc=6.0 min CN=87 Runoff=3.44 cfs 0.251 af
Subcatchment LP1: Leachate Pad 1	Runoff Area=0.055 ac 100.00% Impervious Runoff Depth>8.49" Tc=6.0 min CN=98 Runoff=0.50 cfs 0.039 af
Subcatchment LP2: Leachate Pad 2	Runoff Area=0.040 ac 100.00% Impervious Runoff Depth>8.49" Tc=6.0 min CN=98 Runoff=0.36 cfs 0.028 af
Link DP-1: DP-1	Inflow=13.86 cfs 1.078 af Primary=13.86 cfs 1.078 af
Link DP-2: DP-2	Inflow=14.98 cfs 1.016 af Primary=14.98 cfs 1.016 af
Link DP-3: DP-3	Inflow=3.44 cfs 0.251 af Primary=3.44 cfs 0.251 af

Total Runoff Area = 5.472 ac Runoff Volume = 2.412 af Average Runoff Depth = 5.29"
50.49% Pervious = 2.763 ac 49.51% Impervious = 2.709 ac

Existing Conditions (9-10-2025)

Prepared by Tetra Tech

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Type III 24-hr 100 Yr Rainfall=9.48"

Printed 9/12/2025

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Summary for Subcatchment DP1: Area DP-1

Runoff = 13.86 cfs @ 12.09 hrs, Volume= 1.078 af, Depth> 8.49"
 Routed to Link DP-1 : DP-1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100 Yr Rainfall=9.48"

Area (ac)	CN	Description
1.524	98	Paved parking, HSG D
1.524		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment DP2: Area DP-2

Runoff = 14.98 cfs @ 12.10 hrs, Volume= 1.016 af, Depth> 3.53"
 Routed to Link DP-2 : DP-2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100 Yr Rainfall=9.48"

Area (ac)	CN	Description
2.666	43	Woods/grass comb., Fair, HSG A
0.784	98	Paved parking, HSG D
3.450	55	Weighted Average
2.666		77.28% Pervious Area
0.784		22.72% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment DP3: Area DP-3

Runoff = 3.44 cfs @ 12.09 hrs, Volume= 0.251 af, Depth> 7.46"
 Routed to Link DP-3 : DP-3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100 Yr Rainfall=9.48"

Area (ac)	CN	Description
0.306	98	Paved parking, HSG D
0.024	74	>75% Grass cover, Good, HSG C
0.073	43	Woods/grass comb., Fair, HSG A
0.403	87	Weighted Average
0.097		24.07% Pervious Area
0.306		75.93% Impervious Area

Existing Conditions (9-10-2025)

Prepared by Tetra Tech

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Type III 24-hr 100 Yr Rainfall=9.48"

Printed 9/12/2025

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment LP1: Leachate Pad 1

Runoff = 0.50 cfs @ 12.09 hrs, Volume= 0.039 af, Depth> 8.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100 Yr Rainfall=9.48"

Area (ac)	CN	Description
0.055	98	Paved parking, HSG D
0.055		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment LP2: Leachate Pad 2

Runoff = 0.36 cfs @ 12.09 hrs, Volume= 0.028 af, Depth> 8.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100 Yr Rainfall=9.48"

Area (ac)	CN	Description
0.040	98	Paved parking, HSG D
0.040		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Link DP-1: DP-1

Inflow Area = 1.524 ac, 100.00% Impervious, Inflow Depth > 8.49" for 100 Yr event

Inflow = 13.86 cfs @ 12.09 hrs, Volume= 1.078 af

Primary = 13.86 cfs @ 12.09 hrs, Volume= 1.078 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link DP-2: DP-2

Inflow Area = 3.450 ac, 22.72% Impervious, Inflow Depth > 3.53" for 100 Yr event

Inflow = 14.98 cfs @ 12.10 hrs, Volume= 1.016 af

Primary = 14.98 cfs @ 12.10 hrs, Volume= 1.016 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Existing Conditions (9-10-2025)*Type III 24-hr 100 Yr Rainfall=9.48"*

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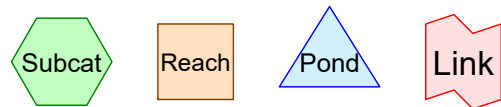
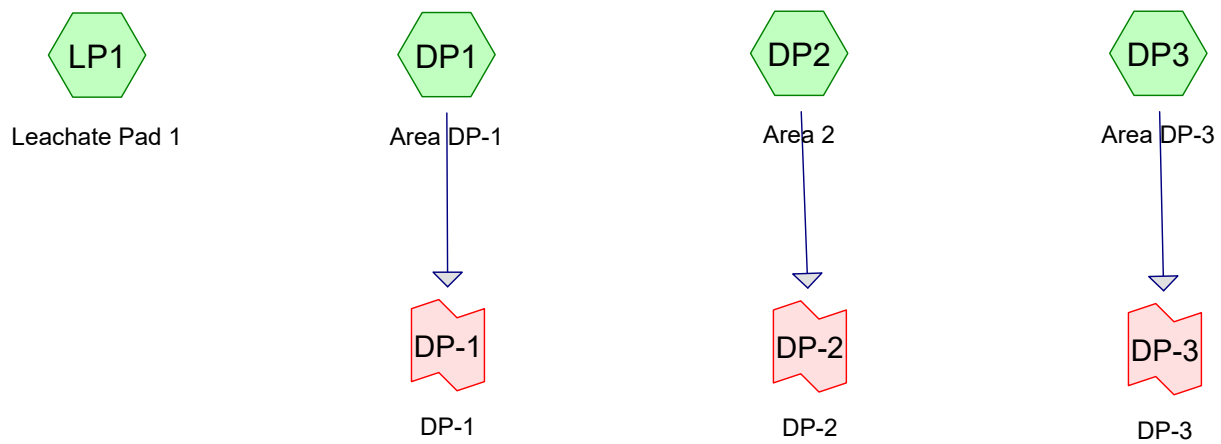
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Summary for Link DP-3: DP-3

Inflow Area = 0.403 ac, 75.93% Impervious, Inflow Depth > 7.46" for 100 Yr event
Inflow = 3.44 cfs @ 12.09 hrs, Volume= 0.251 af
Primary = 3.44 cfs @ 12.09 hrs, Volume= 0.251 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

POST-CONSTRUCTION STORMWATER ANALYSIS



Proposed Conditions (9-10-2025)

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Type III 24-hr 1 Yr Rainfall=2.95"

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment DP1: Area DP-1	Runoff Area=1.447 ac 100.00% Impervious Runoff Depth>2.54" Tc=6.0 min CN=98 Runoff=4.04 cfs 0.307 af
Subcatchment DP2: Area 2	Runoff Area=3.531 ac 23.34% Impervious Runoff Depth>0.17" Tc=6.0 min CN=56 Runoff=0.28 cfs 0.050 af
Subcatchment DP3: Area DP-3	Runoff Area=0.403 ac 76.18% Impervious Runoff Depth>1.58" Tc=6.0 min CN=87 Runoff=0.78 cfs 0.053 af
Subcatchment LP1: Leachate Pad 1	Runoff Area=0.091 ac 100.00% Impervious Runoff Depth>2.54" Tc=6.0 min CN=98 Runoff=0.25 cfs 0.019 af
Link DP-1: DP-1	Inflow=4.04 cfs 0.307 af Primary=4.04 cfs 0.307 af
Link DP-2: DP-2	Inflow=0.28 cfs 0.050 af Primary=0.28 cfs 0.050 af
Link DP-3: DP-3	Inflow=0.78 cfs 0.053 af Primary=0.78 cfs 0.053 af

Total Runoff Area = 5.472 ac Runoff Volume = 0.430 af Average Runoff Depth = 0.94"
51.22% Pervious = 2.803 ac 48.78% Impervious = 2.669 ac

Proposed Conditions (9-10-2025)

Prepared by Tetra Tech

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Type III 24-hr 1 Yr Rainfall=2.95"

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Summary for Subcatchment DP1: Area DP-1

Runoff = 4.04 cfs @ 12.09 hrs, Volume= 0.307 af, Depth> 2.54"
 Routed to Link DP-1 : DP-1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 1 Yr Rainfall=2.95"

Area (ac)	CN	Description
1.447	98	Paved parking, HSG D
1.447		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment DP2: Area 2

Runoff = 0.28 cfs @ 12.36 hrs, Volume= 0.050 af, Depth> 0.17"
 Routed to Link DP-2 : DP-2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 1 Yr Rainfall=2.95"

Area (ac)	CN	Description
2.661	43	Woods/grass comb., Fair, HSG A
0.824	98	Paved parking, HSG D
0.046	39	>75% Grass cover, Good, HSG A
3.531	56	Weighted Average
2.707		76.66% Pervious Area
0.824		23.34% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment DP3: Area DP-3

Runoff = 0.78 cfs @ 12.09 hrs, Volume= 0.053 af, Depth> 1.58"
 Routed to Link DP-3 : DP-3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 1 Yr Rainfall=2.95"

Proposed Conditions (9-10-2025)

Type III 24-hr 1 Yr Rainfall=2.95"

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Area (ac)	CN	Description
0.307	98	Paved parking, HSG D
0.023	74	>75% Grass cover, Good, HSG C
0.073	43	Woods/grass comb., Fair, HSG A
0.403	87	Weighted Average
0.096		23.82% Pervious Area
0.307		76.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment LP1: Leachate Pad 1

Runoff = 0.25 cfs @ 12.09 hrs, Volume= 0.019 af, Depth> 2.54"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 1 Yr Rainfall=2.95"

Area (ac)	CN	Description
0.091	98	Paved parking, HSG D
0.091		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Link DP-1: DP-1

Inflow Area = 1.447 ac, 100.00% Impervious, Inflow Depth > 2.54" for 1 Yr event
Inflow = 4.04 cfs @ 12.09 hrs, Volume= 0.307 af
Primary = 4.04 cfs @ 12.09 hrs, Volume= 0.307 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link DP-2: DP-2

Inflow Area = 3.531 ac, 23.34% Impervious, Inflow Depth > 0.17" for 1 Yr event
Inflow = 0.28 cfs @ 12.36 hrs, Volume= 0.050 af
Primary = 0.28 cfs @ 12.36 hrs, Volume= 0.050 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link DP-3: DP-3

Inflow Area = 0.403 ac, 76.18% Impervious, Inflow Depth > 1.58" for 1 Yr event
Inflow = 0.78 cfs @ 12.09 hrs, Volume= 0.053 af
Primary = 0.78 cfs @ 12.09 hrs, Volume= 0.053 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Proposed Conditions (9-10-2025)*Type III 24-hr 10 Yr Rainfall=5.26"*

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment DP1: Area DP-1	Runoff Area=1.447 ac 100.00% Impervious Runoff Depth>4.66" Tc=6.0 min CN=98 Runoff=7.27 cfs 0.561 af
Subcatchment DP2: Area 2	Runoff Area=3.531 ac 23.34% Impervious Runoff Depth>1.06" Tc=6.0 min CN=56 Runoff=4.09 cfs 0.311 af
Subcatchment DP3: Area DP-3	Runoff Area=0.403 ac 76.18% Impervious Runoff Depth>3.59" Tc=6.0 min CN=87 Runoff=1.73 cfs 0.121 af
Subcatchment LP1: Leachate Pad 1	Runoff Area=0.091 ac 100.00% Impervious Runoff Depth>4.66" Tc=6.0 min CN=98 Runoff=0.46 cfs 0.035 af
Link DP-1: DP-1	Inflow=7.27 cfs 0.561 af Primary=7.27 cfs 0.561 af
Link DP-2: DP-2	Inflow=4.09 cfs 0.311 af Primary=4.09 cfs 0.311 af
Link DP-3: DP-3	Inflow=1.73 cfs 0.121 af Primary=1.73 cfs 0.121 af

Total Runoff Area = 5.472 ac Runoff Volume = 1.028 af Average Runoff Depth = 2.26"
51.22% Pervious = 2.803 ac 48.78% Impervious = 2.669 ac

Proposed Conditions (9-10-2025)

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Type III 24-hr 10 Yr Rainfall=5.26"

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Summary for Subcatchment DP1: Area DP-1

Runoff = 7.27 cfs @ 12.09 hrs, Volume= 0.561 af, Depth> 4.66"
Routed to Link DP-1 : DP-1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10 Yr Rainfall=5.26"

Area (ac)	CN	Description
1.447	98	Paved parking, HSG D
1.447		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment DP2: Area 2

Runoff = 4.09 cfs @ 12.11 hrs, Volume= 0.311 af, Depth> 1.06"
Routed to Link DP-2 : DP-2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10 Yr Rainfall=5.26"

Area (ac)	CN	Description
2.661	43	Woods/grass comb., Fair, HSG A
0.824	98	Paved parking, HSG D
0.046	39	>75% Grass cover, Good, HSG A
3.531	56	Weighted Average
2.707		76.66% Pervious Area
0.824		23.34% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment DP3: Area DP-3

Runoff = 1.73 cfs @ 12.09 hrs, Volume= 0.121 af, Depth> 3.59"
Routed to Link DP-3 : DP-3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10 Yr Rainfall=5.26"

Proposed Conditions (9-10-2025)

Type III 24-hr 10 Yr Rainfall=5.26"

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Area (ac)	CN	Description
0.307	98	Paved parking, HSG D
0.023	74	>75% Grass cover, Good, HSG C
0.073	43	Woods/grass comb., Fair, HSG A
0.403	87	Weighted Average
0.096		23.82% Pervious Area
0.307		76.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment LP1: Leachate Pad 1

Runoff = 0.46 cfs @ 12.09 hrs, Volume= 0.035 af, Depth> 4.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10 Yr Rainfall=5.26"

Area (ac)	CN	Description
0.091	98	Paved parking, HSG D
0.091		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Link DP-1: DP-1Inflow Area = 1.447 ac, 100.00% Impervious, Inflow Depth > 4.66" for 10 Yr event
Inflow = 7.27 cfs @ 12.09 hrs, Volume= 0.561 af
Primary = 7.27 cfs @ 12.09 hrs, Volume= 0.561 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link DP-2: DP-2Inflow Area = 3.531 ac, 23.34% Impervious, Inflow Depth > 1.06" for 10 Yr event
Inflow = 4.09 cfs @ 12.11 hrs, Volume= 0.311 af
Primary = 4.09 cfs @ 12.11 hrs, Volume= 0.311 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link DP-3: DP-3Inflow Area = 0.403 ac, 76.18% Impervious, Inflow Depth > 3.59" for 10 Yr event
Inflow = 1.73 cfs @ 12.09 hrs, Volume= 0.121 af
Primary = 1.73 cfs @ 12.09 hrs, Volume= 0.121 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Proposed Conditions (9-10-2025)*Type III 24-hr 100 Yr Rainfall=9.48"*

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment DP1: Area DP-1	Runoff Area=1.447 ac 100.00% Impervious Runoff Depth>8.49" Tc=6.0 min CN=98 Runoff=13.16 cfs 1.023 af
Subcatchment DP2: Area 2	Runoff Area=3.531 ac 23.34% Impervious Runoff Depth>3.66" Tc=6.0 min CN=56 Runoff=15.89 cfs 1.076 af
Subcatchment DP3: Area DP-3	Runoff Area=0.403 ac 76.18% Impervious Runoff Depth>7.46" Tc=6.0 min CN=87 Runoff=3.44 cfs 0.251 af
Subcatchment LP1: Leachate Pad 1	Runoff Area=0.091 ac 100.00% Impervious Runoff Depth>8.49" Tc=6.0 min CN=98 Runoff=0.83 cfs 0.064 af
Link DP-1: DP-1	Inflow=13.16 cfs 1.023 af Primary=13.16 cfs 1.023 af
Link DP-2: DP-2	Inflow=15.89 cfs 1.076 af Primary=15.89 cfs 1.076 af
Link DP-3: DP-3	Inflow=3.44 cfs 0.251 af Primary=3.44 cfs 0.251 af

Total Runoff Area = 5.472 ac Runoff Volume = 2.414 af Average Runoff Depth = 5.29"
51.22% Pervious = 2.803 ac 48.78% Impervious = 2.669 ac

Proposed Conditions (9-10-2025)

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Type III 24-hr 100 Yr Rainfall=9.48"

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Summary for Subcatchment DP1: Area DP-1

Runoff = 13.16 cfs @ 12.09 hrs, Volume= 1.023 af, Depth> 8.49"
Routed to Link DP-1 : DP-1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100 Yr Rainfall=9.48"

Area (ac)	CN	Description
1.447	98	Paved parking, HSG D
1.447		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment DP2: Area 2

Runoff = 15.89 cfs @ 12.10 hrs, Volume= 1.076 af, Depth> 3.66"
Routed to Link DP-2 : DP-2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100 Yr Rainfall=9.48"

Area (ac)	CN	Description
2.661	43	Woods/grass comb., Fair, HSG A
0.824	98	Paved parking, HSG D
0.046	39	>75% Grass cover, Good, HSG A
3.531	56	Weighted Average
2.707		76.66% Pervious Area
0.824		23.34% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment DP3: Area DP-3

Runoff = 3.44 cfs @ 12.09 hrs, Volume= 0.251 af, Depth> 7.46"
Routed to Link DP-3 : DP-3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100 Yr Rainfall=9.48"

Proposed Conditions (9-10-2025)

Type III 24-hr 100 Yr Rainfall=9.48"

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Area (ac)	CN	Description
0.307	98	Paved parking, HSG D
0.023	74	>75% Grass cover, Good, HSG C
0.073	43	Woods/grass comb., Fair, HSG A
0.403	87	Weighted Average
0.096		23.82% Pervious Area
0.307		76.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment LP1: Leachate Pad 1

Runoff = 0.83 cfs @ 12.09 hrs, Volume= 0.064 af, Depth> 8.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100 Yr Rainfall=9.48"

Area (ac)	CN	Description
0.091	98	Paved parking, HSG D
0.091		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Link DP-1: DP-1Inflow Area = 1.447 ac, 100.00% Impervious, Inflow Depth > 8.49" for 100 Yr event
Inflow = 13.16 cfs @ 12.09 hrs, Volume= 1.023 af
Primary = 13.16 cfs @ 12.09 hrs, Volume= 1.023 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link DP-2: DP-2Inflow Area = 3.531 ac, 23.34% Impervious, Inflow Depth > 3.66" for 100 Yr event
Inflow = 15.89 cfs @ 12.10 hrs, Volume= 1.076 af
Primary = 15.89 cfs @ 12.10 hrs, Volume= 1.076 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link DP-3: DP-3Inflow Area = 0.403 ac, 76.18% Impervious, Inflow Depth > 7.46" for 100 Yr event
Inflow = 3.44 cfs @ 12.09 hrs, Volume= 0.251 af
Primary = 3.44 cfs @ 12.09 hrs, Volume= 0.251 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

**APPENDIX B-5: 2023 POST CLOSURE ANNUAL REPORT, AL TURI
LANDFILL DATED MARCH 1, 2024**

Al Turi Landfill, Inc.

2023 Post Closure Annual Report

Al Turi Landfill



209-4243279

March 1, 2024



2023 Post Closure Annual Report

Al Turi Landfill

March 1, 2024

209-4243279

PRESENTED TO

Al Turi Landfill, Inc.

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PRESENTED BY

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REPORT CERTIFICATION

I certify, under penalty of law, that the material in this report was prepared under my supervision and direction. The data was collected and provided by others and not field verified. I am aware that any false statement I make in such report is punishable pursuant to section 71-2703(2) of the Environmental Conservation Law and section 210.45 of the Penal Law.



Prentiss A. Shaw, P.E.
Certifying Engineer

3/1/24



Diane Conroy
Project Manager

3/1/24

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APPENDICES

Appendix A:	Landfill Gas Migration Monitoring
Appendix B:	2023 Water Quality Analytical Data

1.0 INTRODUCTION

The 2023 Post-Closure Annual Report required as per 6 NYCRR Part 360.19(k)(3) and Part 360.22(b)(3) summarizes the maintenance and monitoring activities conducted at the AI Turi Landfill for Post-Closure Year 20, January 1, 2023 through December 31, 2023. Among the items discussed in this report are:

- Final Cover Maintenance
- Leachate Management
- Landfill Gas Management
- Condensate Analysis
- Water Quality Management Program
- Post Closure Update

The landfill stopped accepting waste in 2003 and final cover for the last operational area was completed in December 2003. The landfill was capped in stages with the first area capped in 1990. The 30-year post-closure period for the facility began on January 1, 2004.

Sheet No.1, Site Plan, depicts key features of the facility including dates of final closure for each prior operating area. The Plan also incorporates a lot line adjustment which was completed for the property in 2016.

It should be noted that in 2017 the management of the AI Turi Landfill, Inc. (ATL) transitioned. The current management group continues to work on post-closure compliance items.

On September 13, 2018, ATL entered into a Consent Order with the New York State Department of Environmental Conservation (NYSDEC). The current management team continues to address the following outstanding items:

1. Maintenance and operation of the leachate system
2. Maintenance of drainage structures & final cover system
3. Maintenance of gas venting structures

On February 3, 2021 ATL submitted a petition to NYSDEC for a reduction in the existing Water Quality Management Plan. On October 19, 2021, ATL received a response letter from NYSDEC approving many aspects of the petition, including annual monitoring for reduced parameters at each of the existing monitoring locations except the stormwater samples which were discontinued.

On December 29, 2020, ATL submitted a report to the NYSDEC and United States Environmental Protection Agency (USEPA) requesting removal from the monitoring and reporting requirements set forth in the New Source Performance Standards (NSPS) and the National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations. ATL continued monitoring and reporting in accordance with the requirements until they received email approval from the NYSDEC on July 28, 2021 to remove NSPS applicability and terminate the Facility's Title V Operating Permit. ATL is now operating under Air Facility Registration Certificate No. 3-3330-00002/00050 effective September 28, 2021.

2.0 FINAL COVER MAINTENANCE

2.1 BACKGROUND

The landfill final capping was constructed and placed in stages, which is shown on the Site Plan included with this Report. The Site Plan illustrates the different areas capped and their respective certification dates.

In general, the longer a final cover system is in place, the less maintenance it requires as vegetation becomes more established and the decomposition process of the waste mass slows. This concept applies as long as regular maintenance occurs immediately following closure. Ultimately, this aids in reducing areas of localized settlement.

Generally, final cover costs can be developed according to the duration an area of the landfill has been closed. In previous Annual Reports, this has been presented as a percentage of the annual repair cost. This approach has been used since 1996 for ATL and has been previously discussed with the NYSDEC.

In the past, it has been determined that maintenance costs associated with the final cover system (cover soils, vegetation, and drainage) decrease to zero after the closure year 10. This is because, typically, the majority of settlement occurs within the first 10 years after closure. However, there is a small area that is in need of repair as a result of landfill settlement. It should be noted that this portion of the landfill was one of the last areas to be capped in 2003. The settlement was noted as item 8(iii) of the Consent Order signed in 2018. ATL submitted a letter, dated December 20, 2018, to the NYSDEC outlining the proposed approach to execute the repairs and requesting approval. In October 20, 2021, a proposal for a modified approach was submitted to the NYSDEC, which was conditionally approved on December 1, 2021. ATL started to work out a construction plan with a subcontractor in 2022, however ultimately decided to pursue an agreement with a different subcontractor in 2023. ATL is currently drafting an agreement with a subcontractor to begin the construction activities associated with the repairs.

2.2 GENERAL MAINTENANCE

General maintenance of the final cover system includes monitoring the integrity of the existing cover soils and existence of established vegetation on the landfill.

It is our understanding that ATL personnel inspected the components of the cover system. Currently, ATL management is committed to inspect the components of the final cover system including mowing activities.

3.0 LEACHATE MANAGEMENT

3.1 PRIMARY AND SECONDARY COLLECTION

The leachate collection system is designed so that leachate is collected from the permitted landfill at three locations: Area 11 pump house, Areas 12 and 13 pump house, and Areas 1-8 manhole. Collected leachate is pumped to two (2) leachate storage lagoons, located adjacent to the former leachate treatment plant. Historically, totalizing flow meters were utilized to measure the leachate flow from the three areas and data collected by ATL personnel. However, data from these flowmeters is not available for 2023 and the leachate collections system is currently being operated in a manual mode. ATL management is working with TAM Enterprises, Inc. (TAM) to operate and maintain the leachate collection system.

ATL Management has also retained TAM to address the leachate related items in the Consent Order. During 2023, TAM hauled approximately 197,900 gallons of leachate from the storage lagoons. As the information related to the leachate management system has been provided by TAM and ATL management, Cornerstone is unable to verify the information presented in this Section.

Table 3-1 summarizes the volume of leachate, in gallons, pumped from the leachate lagoons.

3.1.1 Area 11

Historically, leachate from Landfill Area 11 was measured by totalizing meters located at the Area 11 pump station valve box. The tributary baseliner area to the Area 11 pump station is 5.4 acres. Since Area 11 is a double composite-lined cell, there are two totalizing meters (one which records flow from the secondary system and another that records the combined primary and secondary flow) at this location. Data is collected and provided by ATL personnel and has not been verified by Cornerstone.

In the past there had been occasional inconsistencies in flow data observed, i.e. malfunctioning flow meters and pumps, so tabulated flows from past years had consisted of estimates and partial year averages. Based on discussions with ATL, the flowmeters were not functioning during 2023; therefore, no flow data is available. ATL management is currently working with TAM to maintain and restore operation of the leachate handling system and flowmeters.

3.1.2 Areas 9, 10, 12, & 13

Historically, leachate collected from the double composite lined Landfill Areas 12 and 13 is measured at the Area 12 pump station valve box by a similar dual totalizing meter arrangement as used for Area 11. The tributary baseliner area to the Area 12 pump station is 12 acres. The combined (total) flow meter at this location also receives and measures flow from single composite-lined Landfill Areas 9 and 10. Data is collected and provided by ATL personnel and has not been verified by Cornerstone.

Similar to Area 11, in the past there have been occasional inconsistencies in flow data observed, i.e. malfunctioning flow meters and pumps, for Areas 9, 10, 12, and 13 so tabulated flows from previous years consist of estimates and partial year averages. Based on discussions with ATL, the flowmeters were not functioning during 2023; therefore, no flow data is available. ATL management is currently working with TAM to maintain and restore operation of the leachate handling system and flowmeters.

3.1.3 Areas 1-8

The remaining landfill areas (1, 2, 3, 4, 5, 6, 6C, 7, and 8) are tributary to a common leachate collection manhole on the north side of the landfill near the storage (equalization) lagoons. The tributary baseliner area to the Area 1

8 pump station is 36.6 acres. Since all of the baseliner areas to this location (identified above) have single soil liner systems, only one meter was installed. Based on discussions with ATL, the flowmeters were not functioning during 2023; therefore, no flow data is available. ATL management is currently working with TAM to maintain and restore operation of the leachate handling system and flowmeters.

3.1.4 On-Site Leachate Treatment (LTP)

The on-site LTP was taken off-line on December 10, 2013. The treatment plant closure plan was approved by the NYSDEC in a letter dated April 7, 2014 and a Notice of Permit Discontinuance was issued by the NYSDEC on July 31, 2014 (copies of both letters were submitted as an appendix in the 2014 Post-Closure Annual Report). The signed treatment and hauling agreement letters from New Windsor Treatment, LLC, and TAM were presented in the 2013 Post-Closure Annual Report.

Leachate produced at the landfill was transported to the City of Beacon Wastewater Treatment Facility (WWTF) in Beacon, NY, during the first half of 2023 and to Passaic Valley Sewage Commission in Newark, NJ during the second half of 2023. During 2023, the total volume of liquid hauled off-site in 2023 was 197,900 gallons and is summarized in Table 3-1.

3.2 LEACHATE-MAINTENANCE COLLECTION SYSTEM AND LAGOONS

Due to the facility's capped and closed status, ATL proposes to continue to conduct flushing of the leachate collection lines on an as-needed basis. During 2024, ATL will assess the need for leachate collection line cleaning, and coordinate cleaning activities accordingly.

4.0 LANDFILL GAS SYSTEM AND MANAGEMENT

4.1 BACKGROUND

The landfill gas (LFG) collection and control system (GCCS) consists of landfill gas monitoring and extraction wells, landfill gas transmission pipes, and a condensate collection system across the closed landfill cells. ATL retained the services of Cornerstone to perform the quarterly landfill gas migration probe monitoring. During 2023, the collected LFG was sent to the enclosed landfill gas flare, historically owned and operated by Ameresco LFG-I, Inc (Ameresco).

The most recent gas collection system as-built plan (Sheet No. 2) is included with this report.

Since the Ameresco landfill gas to energy (LFGTE) plant shut down in 2019, ATL has become involved in the operation and maintenance of the flare. ATL and Ameresco installed a new flare control panel complete with an electronic shutoff notification system in early 2022.

On October 30, 2023 an agreement for ATL to take over ownership of the flare was signed. In November of 2023, TAM added an automatic flare restart system to the control panel in order to assist with the restart of the flare following downtimes experienced as a result of low methane content in the collected LFG.

4.2 GAS MIGRATION MONITORING

Cornerstone performed quarterly landfill gas migration monitoring at the landfill throughout 2023. Results of the recent monitoring activities indicate that the percent methane recorded for the on-site gas migration monitoring probes (GM's and GMV's) were in compliance with applicable 6 NYCRR Part 360 regulations. The landfill gas migration monitoring probe locations are depicted on Figure 2 "*Landfill Gas Collection System As-Built*". The 2023 data indicates that landfill gas migration does not exist. The quarterly reports for gas migration monitoring activities are summarized and are included in Appendix A.

Landfill gas migration monitoring has been performed on a quarterly basis throughout the duration of the post-closure care period as per 6 NYCRR Part 360 regulations. Since the quarterly landfill gas migration monitoring data has consistently shown there is no evidence of off-site migration, ATL plans to request a reduction in the monitoring frequency.

4.3 FUEL USAGE

At the request of the NYSDEC, a summary of the fuel usage by the Ameresco plant has historically been included as Table 4-1 with this report. Since Ameresco's LFGTE has been permanently shut down since 2019, Ameresco allowed their air permit to expire on January 8, 2022. Once the air permit expired, Ameresco was no longer required to record fuel usage. Therefore, the data to complete Table 4-1 was not collected after January of 2022.

4.4 CONDENSATE TANK

In 2001, a 300-gallon, double walled steel collection tank was installed below grade located behind the Area 11 pump station manhole to allow automatic and continuous collection and transport of accumulated liquid to the nearby Area 11 primary collection manhole. The condensate then flows with collected Area 11 leachate to the on-site leachate storage lagoons. Cornerstone did not inspect the condensate tank during 2023.

5.0 CONDENSATE ANALYSIS

Since 1991, ATL has owned and operated the landfill gas collection system. For many years, ATL has coordinated the sampling and analysis of the condensate generated by the system in accordance with Part 360 requirements. Condensate is collected in three on-site containment sumps and is routinely removed manually and deposited into the on-site leachate storage lagoons.

During 2023, a condensate sample was collected by a technician from Pace Analytical Services, Inc. (Pace). The sample was analyzed for the Part 360 Baseline parameters, and a summary of the results is provided within Section 7 of this Report.

6.0 GENERATION AND DISPOSAL OF ON-SITE TREATMENT PLANT SLUDGES

The on-site leachate treatment plant was decommissioned on December 10, 2013.

7.0 WATER QUALITY MANAGEMENT PLAN

The water quality management program at the Al Turi Landfill includes the collection and analysis of groundwater, surface water, contained leachate, and sediment samples from locations in and around the facility and the evaluation of the data generated by these samples. The water quality management program generally follows the procedures presented in the July 2005 Environmental Monitoring Plan (EMP), which was approved by the New York State Department of Environmental Conservation (NYSDEC) in August 2005.

During 2020, ATL retained Cornerstone to perform a Water Quality Evaluation Report. Cornerstone reviewed the groundwater, surface water, sediment, and leachate data submitted with ATL's Annual Reports between 2001 and 2016 provided by Groundwater Investigations, Inc. (excluding data from 2004, which was not available at the time of this analysis) and the data from Pace Analytical Laboratories for the years 2017, 2018, and 2019. As a result of the conclusions made in the Water Quality Evaluation Report, finalized in October 2020, ATL decided to submitted a petition to NYSDEC on February 3, 2021 to reduce some of the monitoring requirements.

On October 19, 2021, ATL received a response letter from NYSDEC approving a reduction from semi-annual to annual monitoring, a reduction from modified Part 360 baseline parameters to Part 363 Routine Parameters, and the discontinuation of surface water monitoring.

In November and December 2023, Pace Analytical was retained to sample and analyze water quality and sediment samples from various locations in and around the facility. The subsections below summarize the results of the 2023 monitoring event.

7.1 CURRENT MONITORING PROGRAM

Currently, groundwater quality is monitored at 15 groundwater monitoring wells (10 shallow and 5 deep wells) located within the boundaries of the facility's property. Well W-8D is designated as the upgradient background well for the facility. The shallow groundwater monitoring wells are screened in overburden material and the deep wells are screened in till/bedrock material. In accordance with the October 2021 approval, samples collected during the annual sampling event were analyzed for the baseline parameter list. Below is a list of the current monitoring wells, with deep wells shown in italics:

W-1	<i>W-6DA</i>	<i>W-10D</i>
W-3A	W-7S	W-17S
W-5S	<i>W-8D</i>	W-17D
<i>W-5D</i>	W-9S	W-27S
W-6S	<i>W-9D</i>	W-27D

Sediment samples are collected from two locations in the Walkill River, upstream and downstream of the facility. Leachate samples are collected from the primary and secondary leachate collection systems. Similar to the groundwater analysis discussed above, the samples were analyzed for baseline parameters.

In accordance with the requirements of Special Condition Nos. 36-38 of the facility's July 1997 Landfill Operating Permit and the July 2005 EMP, water quality data are compared with trigger values developed by the NYSDEC pursuant to Part 360-2.11(c)(5)(ii), and applicable water quality standards (6 NYCRR Part 703).

Previous Water Quality reports prepared by Groundwater Investigations, Inc. (GWI) provided details regarding the trigger values and their development. GWI's historical reports explained that the trigger values were developed using a limited database that was established for the Al Turi Landfill prior to the promulgation of regulations

governing the collection of such data. The values were developed from 2 or 3 sampling events for baseline parameters conducted in August through October 1983 from 3 overburden wells (W-5S, W-6S, and W-7S), and 2 bedrock wells (W-6D and W-8D). Well W-6D has since been replaced with well W-6DA. Additionally, operational trigger values for metals were calculated based on the dissolved fraction results from field filtered analyses. The Department values, or Part 703 State standards, whichever are higher, serve as the trigger values for monitoring at the AI Turi Landfill. Due to the limited pre-operational database, and the presence of undetected values for many of the parameters, the results do not constitute a “normal distribution” as required under the former Part 360 2.11(c)(5)(i)(c) and these values should therefore be applied with caution. However, given the limited available data, it was determined that the 1983 values represent the best available estimate of pre-operational water quality, and are suitable as a screening tool in the current monitoring program. The AI Turi Landfill began operation prior to the promulgation of the current regulations and as a result, certain aspects of the regulations cannot be strictly applied. Notable deviations are the absence of an adequate pre-operational database and the lack of expanded parameter data for many of the monitoring points.

As requested in the February 2021 Petition for the Reduction in Water Quality Monitoring at AI Turi Landfill prepared by Cornerstone Environmental Group, the NYSDEC has approved the following changes to the post-closure water quality monitoring program:

- Monitoring at the 15 groundwater wells, and locations SED-UP & SED-DN, and LCH-11P, LCH 12P, LCH-11S, & LCH-12P shall be performed annually for Part 363 Routine Parameters and every five years for Part 363 Baseline Parameters.
- Surface water sampling at locations SW-UP and SW-DN may be discontinued.

Groundwater analytical data for 2023, as well as the aforementioned trigger values, are included as an attachment (Appendix B).

7.2 GROUNDWATER

7.2.1 Overburden Wells

The data that was obtained during the 2023 sampling event for the overburden wells indicate that several parameters exceeded established trigger values or Part 703 State standards in a number of wells. Exceedances noted during 2023 include: hardness (2 wells); ammonia (2 wells); alkalinity (4 wells); chloride (10 wells); TDS (9 wells); boron (1 well); arsenic (4 wells); calcium (3 wells); iron (12 wells); potassium (1 well); manganese (8 wells); selenium (1 well); and sodium (10 wells). The exceedances are further explained in the bullets below:

- Hardness exceeded its trigger value at wells W-27S and W-10D, and ammonia exceeded its trigger value at wells W-1 and W-6S, however the reported concentrations were consistent with historical results.
- Calcium exceeded its trigger value at wells W-27S, W-10D and W-8D, and alkalinity exceeded its trigger value at wells W-7S, W-27S, W-8D, and W-10D however the reported concentrations were consistent with historical results.
- Chloride exceeded its trigger value at numerous wells, however the reported concentrations were consistent with historical results.
- Sulfate was reported above its Part 703 Standards at well W-27S. When compared to its 2022 concentration, a slight decrease was observed.
- Selenium was reported above its trigger value at well W-9S. Previous historical concentrations show that the MW-9S selenium concentration did not exceed its trigger values until the 2023 sampling event.

- Iron, manganese, sodium, and TDS were reported at concentrations above their respective trigger values and the Part 703 Standards at numerous wells, however the reported concentrations were consistent with historical results.
- Arsenic was reported above its trigger value at wells W-9S, W-10D, and W-17S, however the reported concentration was consistent with historical results. The arsenic concentration in well W-17D exceeded its trigger values and previous historical concentrations show that the MW-17D arsenic concentration did not exceed its trigger value until the 2023 sampling event.

Wells W-6S, W-9S and W-17S were historically included as part of contingency monitoring for arsenic and W-1 was historically included for contingency monitoring of benzene. As a result of the recent NYSDEC-approved changes made to the monitoring program, these wells are now part of the currently approved sampling program as described in Section 7.1. In 2023 arsenic was detected above its trigger value in wells W-9S and W-17S.

7.2.2 Deep Monitoring Wells

The data obtained in 2023 for the 5 deep monitoring wells indicate that several parameters exceeded established trigger values. Parameters that exceeded trigger values in 2023 include: alkalinity, arsenic, calcium, chloride, hardness, iron, manganese, sodium, and TDS.

The reported concentrations for the deep well exceedances mentioned above are consistent with historical results, excluding well W-17D whose previous historical concentrations show that its arsenic concentration did not exceed its trigger values until the 2023 sampling event.

7.3 SURFACE WATER/SEDIMENT QUALITY

In accordance with the NYSDEC approval dated October 19, 2021, surface water sampling was discontinued.

Sediment samples were collected from the landfill side bank of the Wallkill River. Review of the 2023 data indicates that concentrations vary between sampling events and overall conditions downstream of the landfill are similar to conditions observed upstream of the landfill. The 2023 sediment data is also included in Appendix B.

7.4 LEACHATE MONITORING

In accordance with the EMP, samples are obtained from the primary and secondary leachate collection system associated with Areas 11, 12, and 13 (includes Areas 9 and 10) of the landfill. Because leachate from Area 13 drains into Area 12, the common primary and secondary monitoring points for these areas are sampled. Additionally, leachate from Areas 9 and 10, which are underlain with a single composite baseliner and are not equipped with a secondary collection system, drain to the primary collection system associated with Area 13 and then to Area 12.

Analytical results for the samples collected from the leachate collection system are provided in Appendix B. Samples collected from the primary collection systems are designated LCH-11P and LCH-12P. Samples from the secondary collection systems are designated LCH-11S and LCH-12S. The 2023 primary and secondary leachate results remain generally consistent with historical results. Most concentrations observed in the primary leachate locations are greater than concentrations found in secondary locations however, consistent with historical reports prepared by GWI, exceptions were noted in both the Area 11 and Area 12 results.

7.5 IRON FLOC

Historical reports prepared by GWI indicate that the Wallkill River has been identified as a groundwater discharge area for shallow groundwater flowing beneath the AI Turi Landfill site. These historical reports have indicated that

during periods of abnormally low flow conditions, seepage of shallow groundwater has been observed along the banks of the Walkill River. Occasionally orange staining has been observed at some of these seepage points, which has proven to be characteristic of iron oxidation. As stated in historical reports, past sampling of these seeps has suggested that the seepage water reflects observed shallow groundwater quality and is not the result of direct leachate seepage from the landfill.

Iron floc sampling was not conducted during 2023 as the historically observed seeps were below the river elevation at the time of sampling. The AI Turi Landfill will continue to monitor the river elevation and conduct iron floc sampling when the seep area is once again accessible.

7.6 WATER QUALITY CONCLUSIONS

The water quality management program at the AI Turi landfill generally follows the procedures presented in the July 2005 EMP, including the recent reductions approved by the NYSDEC in October 2021. The facility has completed closure and is in the post-closure period and monitoring at the site. As described above, the trigger values established in 1983 and used for comparison to current water quality data are based upon a limited data set and do not constitute a “normal distribution” as required under the former Part 360 2.11(c)(5)(i)(c) regulations. However, given the limited available data, it was determined that the 1983 trigger values represent the best available estimate of pre-operational water quality for use in the monitoring program. Given the above, exceedances of the trigger values are not unexpected and the results are also compared to historical data at each location. In 2023, sampling was completed in November and December and the following bullets summarize the results.

- The 2023 groundwater and surface water results remain generally consistent with historical results. Some exceedances of the trigger values and Part 703 Standards were noticed in the groundwater samples. A number of exceedances observed for parameters such as iron, manganese, and sodium are likely due to naturally poor local groundwater quality rather than a landfill related impact.
- The 2023 results associated with the former contingency wells remain generally consistent with historical results. Recent arsenic and benzene data suggest that concentrations for each of the former contingency wells have stabilized. Benzene has not been observed in well W-1 since 2010.
- The 2023 primary and secondary leachate results remain generally consistent with historical results. Most concentrations observed in the primary leachate locations are greater than concentrations found in secondary locations however, consistent with historical reports prepared by GWI, exceptions were noted in both the Area 11 and Area 12 results.
- Based on previous reports prepared by GWI, it has been determined that groundwater from beneath the landfill discharges to the Walkill River, and historical surface water data indicates no significant change in water quality has occurred in the Walkill River as a result of historical landfill operations. The NYSDEC has approved the discontinuation of surface water sampling as of October 19, 2021.
- During 2023, iron floc sampling was not conducted.

8.0 POST CLOSURE COST ESTIMATE

The post-closure period for the AI Turi Landfill (ATL) started on January 1, 2004. As of the end of 2023, ATL completed its 20th year of post-closure. Going forward, 2024 is the 21st year of post-closure and the total estimated post-closure costs for the facility for Post Closure Years 21 through 30 is \$2,196,419. The NYSDEC has requested adding a 15% contingency factor to the total post-closure costs. For this period, the revised total cost would be \$2,525,426.

The post-closure cost estimate for the ATL has been updated using historical and current year costs, and a remaining 30-year post closure period with an additional twenty (20) years representing the Rolling 30-year period. This format, including the additional Rolling 30-year period, is as per correspondence between ATL personnel and the NYSDEC where the NYSDEC dictated the change in the submission format. The total 30-year estimated post-closure costs for the remaining post closure period including the rolling period is \$5,216,084. Again, adding a 15% contingency factor, the total 30-year post-closure costs would be \$5,998,496.

As a result of item 8(iii) of the Consent Order signed in 2018, ATL shall repair a portion of the landfill cap that has experienced significant settlement. An estimated cost to repair the depression caused by the landfill settlement has been included in the post closure cost estimate, attached as Table 8-1. ATL is currently drafting an agreement with a subcontractor to begin the construction activities associated with the repairs.

As ATL works to address leachate collection system operations and maintenance as well as leachate removal, the associated proposed costs are being held from previous years where select maintenance was identified and higher leachate generation volumes were estimated.

During the preparation of Table 8-1, the U.S. Department of Commerce Implicit Price Deflator for Gross Domestic Product was used to account for inflation as necessary. This meets the post closure cost estimate requirements set forth in 360-2.19(c).

9.0 LIMITATIONS

The work product included in the attached was undertaken in full conformity with generally accepted professional consulting principles and practices and to the fullest extent as allowed by law we expressly disclaim all warranties, express or implied, including warranties of merchantability or fitness for a particular purpose. The work product was completed in full conformity with the contract with our client and this document is solely for the use and reliance of our client (unless previously agreed upon that a third party could rely on the work product) and any reliance on this work product by an unapproved outside party is at such party's risk.

The work product herein (including opinions, conclusions, suggestions, etc.) was prepared based on the situations and circumstances as found at the time, location, scope and goal of our performance and thus should be relied upon and used by our client recognizing these considerations and limitations. Cornerstone Environmental Group, PLLC shall not be liable for the consequences of any change in environmental standards, practices, or regulations following the completion of our work and there is no warrant to the veracity of information provided by third parties, or the partial utilization of this work product.

TABLES

Table 3-1 Annual Leachate Collection Summary

Table 8-1 Post-Closure Cost Estimate

TABLE 3-1
Al Turi Landfill, Inc.
2023 Annual Report
Annual Leachate Collection Summary

Area 1/8 - 36.6 ac
Area 9,10,12,13 -12 ac
Area 11 - 5.4 ac

Year		Combined Metered Inflow								Hauled Off-Site
	Precip.	Area 11			Area 9,10,12,13			Area 1-8		
	(In.)	(Gal)	Gallons Per Acre Per Day		(Gal)	Gallons Per Acre Per Day		(Gal)	Gallons Per Acre Per Day	(Gal)
			Prim.	Sec.		Prim.	Sec.		Primary	
2023	52.46	Flowmeter Data Unavailable								197,900
2022	29.40	Flowmeter Data Unavailable								336,796
2021	23.20	Flowmeter Data Unavailable								501,450
2020	29.69	Flowmeter Data Unavailable								398,000
2019	35.79	Flowmeter Data Unavailable								692,400
2018	51.33	Flowmeter Data Unavailable								1,248,072
2017*	1.60									199,800
2016	32.49	29,104	15	0.1	218,443	51	5.4	1,447	0.1	784,100
2015	36.01	66,945	45	0.2	217,955	58	3.8	18,949	1.6	989,500

*Denotes only December 2017 information

ATL Notes:

- a) Leachate from gas wells and condensate are included in "Hauled Off-Site" values.
- b) Leachate was hauled to the City of Beacon Treatment Plant for treatment.

Additional Notes:

- a) Data supplied by ATL personnel.
- b) The 2023 total precipitation was tabulated from data obtained from the website <https://w2.weather.gov/climate> for Montgomery, NY, 2023 precipitation totals
- c) Flowmeters were non-operational from 2017 - 2023.

TABLE 8-1
Al Turi Landfill, Inc.
2023 Annual Report
Post Closure Cost Estimate ⁽¹⁾
Landfill B (53.6 ac.)

Item		2024	2024-2033 (9)	30 YR PC TOTAL	2034-2053(10)	ROLLING 30 YEAR TOTAL
	Post Closure Year	Year 21	Year 21-30	(PC yrs 21-30) ⁽¹²⁾	(yrs 31 - 50)	
	Rolling 30 years	Year 1	Average	Year 1-10	Year 11-30	
Groundwater Monitoring ⁽²⁾		\$12,976	\$12,976	\$129,760	\$12,976	\$389,280
Final Cover Repair ⁽³⁾		\$313,000	\$0	\$313,000	\$0	\$313,000
Vegetative Repair ⁽³⁾		\$0	\$0	\$0	\$0	\$0
Mowing ⁽⁴⁾		\$8,536	\$8,536	\$85,358	\$8,536	\$256,074
Monitoring Well Inspection Report and Repair ⁽⁵⁾		\$0	\$0	\$0	\$0	\$0
Drainage System Inspection and Repair ⁽³⁾		\$0	\$0	\$0	\$0	\$0
Leachate Collection System Operation, Maintenance, and Cleaning ⁽⁶⁾		\$51,419	\$50,920	\$509,201	\$43,771	\$1,384,630
Gas Collection System Maintenance and Repair ⁽⁷⁾		\$10,000	\$10,000	\$100,000	\$10,000	\$300,000
Leachate Treatment ⁽⁸⁾		\$136,800	\$87,210	\$872,100	\$57,000	\$2,012,100
Engineering Observation and Certification ⁽¹¹⁾		\$18,700	\$18,700	\$187,000	\$18,700	\$561,000
TOTAL		\$551,431	\$219,642	\$2,196,419	\$150,983	\$5,216,084

Notes:

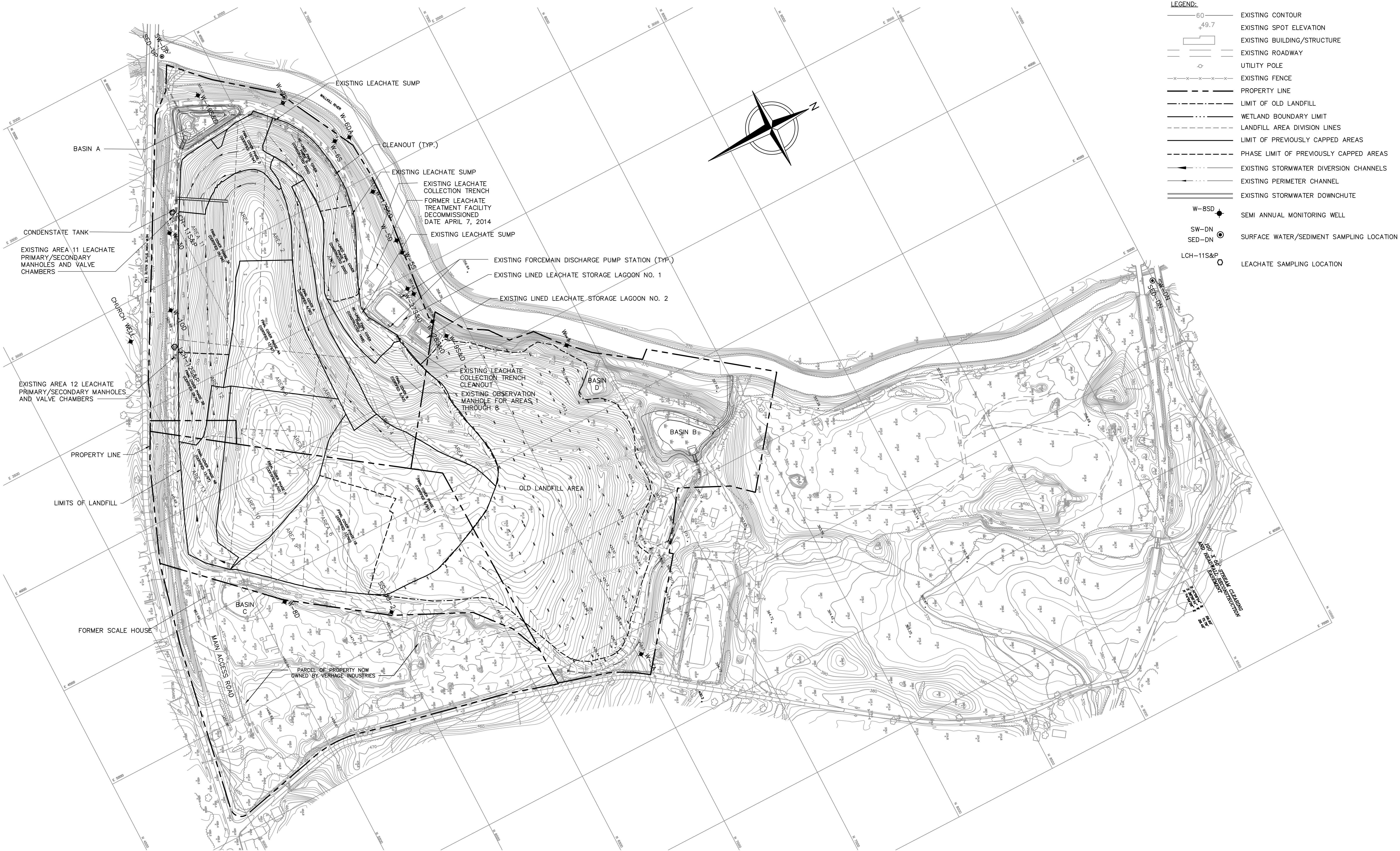
- 1) All costs are in 2023\$.
- 2) Cost obtained from quote provided by Pace Analytical for reduced annual monitoring as a result of the Water Quality Management petition approved in Oct 2021. Assume annual monitoring continues beyond initial 30 year period.
- 3) 2013 was the final year in the 10 year maintenance program. Cost assumed to be \$0 for every year after the 10 year maintenance program. In 2024, one time cost to repair settlement in landfill cover. Subcontractor's estimate (TAM Enterprises, Inc dated 11-13-23) based on survey data and regrading/repair plan conditionally approved by NYSDEC.
- 4) Mowing cost is 2022 actual cost incurred.
- 5) Repairs have not been needed throughout post-closure period. Inspections can be performed during sampling events, therefore no further costs have been budgeted for this item.
- 6) Routine leachate collection system Operation and Maintenance costs as follows: Assume lateral collection piping to be cleaned once in the original post-closure period and once in the Rolling 30-year post-closure period, at estimated cost of \$8,272/yr. ATL replaced 1 set of pumps in 2018 @ \$28,000 [2 primary & 1 secondary with est. cost of \$42,000]. Assume one pump to be replaced in 2024 and one pump to be replaced every 5 years @ \$14,000, after that. Assume a skilled worker is needed to maintain system on an 8-hour work week [2 ea 4-hr days, 52 weeks a year] for a cost of \$29,787/yr. Assume the leachate collection lagoons to be cleaned once in the original post-closure period and once in the Rolling 30-year post-closure period, at a cost of \$85,481 each which includes hauling off the collected leachate and sediment removal from the lagoon liner. Estimated costs are based on 2019 quotes from TAM Enterprises and from 2019 RS Means.
- 7) Gas Maintenance & Repair assumes an annual upkeep cost of \$10,000 starting in 2022 for GCCS maintenance.
- 8) As per records from ATL, leachate is hauled off-site at a rate of \$0.114/gallon. Cornerstone evaluated the leachate generation in 2018, and hauling records since. As a result, the leachate removal quantites from the site will assume to be 1.2 million g/yr until 2025, 750,000 g/yr for years 2026 to 2030 and 500,000 g/yr from year 2031 onward.
- 9) Cost shown represents average annual cost for each of the remaining 10 years of the initial 30 year post closure period.
- 10) Cost shown represents average annual cost over the 20 yr period.
- 11) Cost shown is for annual post closure reporting (\$12,800) and GHG Report (\$5,900)
- 12) Costs shown represent the total PC cost for 2024 - 2033.

Inflation Factor to adjust 2019\$ to 2023\$
Inflation Factor to adjust 2022\$ to 2023\$

1.174
1.032

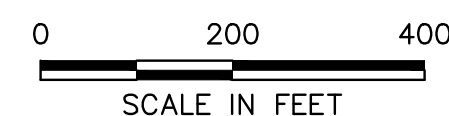
FIGURES

- | | |
|----------|---|
| Figure 1 | Site Plan |
| Figure 2 | Landfill Gas Collection Control System (As Built) |



- LEGEND:**
- 60 ——— EXISTING CONTOUR
 - 49.7 ——— EXISTING SPOT ELEVATION
 - EXISTING BUILDING/STRUCTURE
 - EXISTING ROADWAY
 - UTILITY POLE
 - EXISTING FENCE
 - PROPERTY LINE
 - LIMIT OF OLD LANDFILL
 - WETLAND BOUNDARY LIMIT
 - LANDFILL AREA DIVISION LINES
 - LIMIT OF PREVIOUSLY CAPPED AREAS
 - PHASE LIMIT OF PREVIOUSLY CAPPED AREAS
 - EXISTING STORMWATER DIVERSION CHANNELS
 - EXISTING PERIMETER CHANNEL
 - EXISTING STORMWATER DOWNCHUTE
 - W-BS — SEMI ANNUAL MONITORING WELL
 - SW-DN — SURFACE WATER/SEDIMENT SAMPLING LOCATION
 - SED-DN — SURFACE WATER/SEDIMENT SAMPLING LOCATION
 - LCH-11S&P — LEACHATE SAMPLING LOCATION

- NOTES:**
- TOPOGRAPHIC MAP COMPILED PHOTOGRAMMETRICALLY FROM AERIAL PHOTOGRAPHY DATED DECEMBER 3, 2001 BY ATLANTIS AERIAL SURVEY COMPANY, INC.
 - PROPERTY LINE SHOWN FROM SURVEY/DEED PLOT PREPARED BY DANIEL P. YANOSH, N.Y.S. L.S. FOR AL TURI LANDFILL, INC. DATED OCTOBER 24, 2016.
 - THE GRID DEPICTED ON THIS PLAN WAS DEVELOPED FOR MAPPING OF THE PROJECT SITE. THE COORDINATES SHOWN ARE NOT PART OF THE STATE PLANE COORDINATE SYSTEM.



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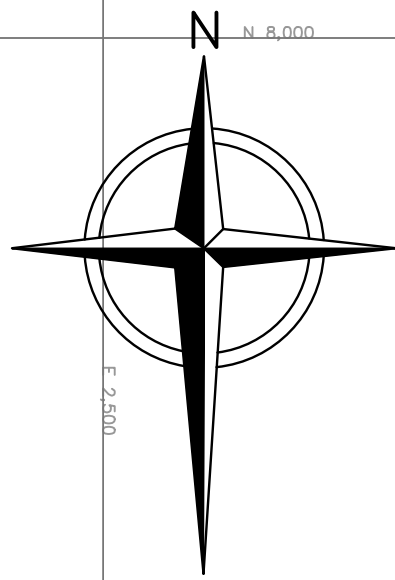
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REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	MAY 2019	BTG			DMC	PAS

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AL TURI LANDFILL, INC.
TOWN OF GOSHEN, ORANGE COUNTY, NEW YORK
2017/2018 ANNUAL REPORT
SITE PLAN

SHEET NO.
1
PROJECT NO.
190123



LEGEND:

- EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- EXISTING BUILDING/STRUCTURE
- EXISTING ROADWAY
- UTILITY POLE
- EXISTING FENCE
- PROPERTY LINE
- LIMIT OF OLD LANDFILL
- LANDFILL AREA DIVISION LINES
- GAS HEADER PIPE
- GAS COLLECTION TRENCH
- GAS EXTRACTION WELL (ALSO GT, GV SERIES)
- CLEANOUT RISER
- MANHOLE
- SYSTEM VALVES
- FINAL COVER VENT PIPES
- CONDENSATE DROP OUTS
- CONNECTION TO ACTIVE SYSTEM
- GAS COLLECTION WELL AND TRENCH CONNECTION TO ACTIVE SYSTEM
- GAS MONITORING PROBES
- FINAL COVER VENT PIPES (LOCATIONS WERE NOT SURVEYED AND ARE APPROXIMATE)
- TEMPORARY GAS MONITORING PROBE



SUMMARY OF HEADERS

NAME	DIAMETER (IN.)	LOCATION
CO LINE	14-INCH	BLOWER BUILDING OUT TO GW23
HARTLEY RD. LINE	14-INCH	BLOWER BUILDING AROUND TO AREA 12 PS
LFG LINE	10-INCH	BLOWER BUILDING UP TO OLD LANDFILL
SECONDARY HEADERS	6-INCH	

NOTES:

- TOPOGRAPHIC MAP COMPILED PHOTOGRAMMETRICALLY FROM AERIAL PHOTOGRAPHY DATED DECEMBER 3, 2001 BY ATLANTIS AERIAL SURVEY COMPANY, INC.
- PROPERTY LINE SHOWN FROM SURVEY/DEED PLOT PREPARED BY DANIEL P. YANOSH, N.Y.S. L.S. FOR AL TURI LANDFILL, INC. DATED OCTOBER 24, 2016.
- THE GRID DEPICTED ON THIS PLAN WAS DEVELOPED FOR MAPPING OF THE PROJECT SITE. THE COORDINATES SHOWN ARE NOT PART OF THE STATE PLANE COORDINATE SYSTEM.

0 150 300
SCALE IN FEET

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REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	MAY 2019	DATE OF ISSUE	DRAWN BY	BTG	CHECKED BY	DMC
		DESIGNED BY		APPROVED BY	PAS	

cornerstone
PLLC
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AL TURI LANDFILL, INC.
TOWN OF GOSHEN, ORANGE COUNTY, NEW YORK
LANDFILL GAS COLLECTION SYSTEM AS-BUILT
(AS OF FEBRUARY 2019)

SHEET NO.
2
PROJECT NO.
190123

APPENDIX A: LANDFILL GAS MIGRATION MONITORING

Al Turi Landfill
First Quarter 2023 Probes

Probe ID	Date/Time	CH4%	CO2%	O2%	Bal%	Temp. (F)
GMP-1	1/3/2023 9:30	0.0	0.3	22.3	77.4	50
GMV-1	1/3/2023 9:33	0.0	0.3	22.2	77.5	50
GMP-2	1/3/2023 9:35	0.0	0.5	21.9	77.6	50
GMV-2	1/3/2023 9:38	0.0	0.4	21.6	78	50
GMP-3	1/3/2023 9:41	0.0	0.8	21.2	78	50
GMV-3	1/3/2023 9:43	0.0	0.4	21.6	78	50
GMP-4	1/3/2023 9:48	0.3	0.8	21.3	77.6	50
GMV-4	1/3/2023 9:51	0.0	0.3	22.6	77.1	50
GMP-5	1/3/2023 9:56	0.0	0.9	16.3	82.8	50
GMV-5	1/3/2023 9:59	0.0	0.1	22.5	77.4	50
GMP-6	1/3/2023 10:03	0.0	0.1	22.5	77.4	50
GMV-6	1/3/2023 10:06	0.0	0.1	22.5	77.4	50
GMP-7	1/3/2023 10:09	0.0	0.1	22.5	77.4	50
GMV-7	1/3/2023 10:12	0.0	0.1	22.4	77.5	50
GMP-8	1/3/2023 10:14	0.0	0.2	22.4	77.4	50
GMV-8	1/3/2023 10:17	0.0	0.1	22.4	77.5	50
GMP-9	1/3/2023 10:20	0.0	0.1	22.4	77.5	50
GMV-9	1/3/2023 10:22	0.0	0.1	22.5	77.4	50
GMP-10	1/3/2023 10:25	0.0	0.0	22.4	77.6	50
GMV-10	1/3/2023 10:28	0.0	0.4	22.2	77.4	50
GM1A	1/3/2023 10:38	0.0	0.6	22.4	77	50
GM2A	1/3/2023 10:43	0.0	1.4	20.3	78.3	50
GM3A	1/3/2023 10:46	0.0	2.1	19.9	78	50
GM4A	1/3/2023 10:50	0.0	1.4	21.1	77.5	50
GM5A	1/3/2023 10:54	0.0	0.8	21.3	77.9	50
GM6A	1/3/2023 10:58	0.0	0.2	22.5	77.3	50
GM7	1/3/2023 11:01	0.0	2.7	19.5	77.8	50
GM9	1/3/2023 11:15	0.0	0.4	22.1	77.5	50
GM10	1/3/2023 11:18	0.0	3.4	19.3	77.3	50
GM11	1/3/2023 11:25	0.0	0.3	22.3	77.4	50
GM12	1/3/2023 11:28	0.0	0.3	22.3	77.4	50
GM13	1/3/2023 11:31	0.0	0.4	22.2	77.4	50
GM14	1/3/2023 11:09	0.0	2.1	21	76.9	50
GM15	1/3/2023 11:06	0.0	0.2	22.3	77.5	50

Al Turi Landfill
Second Quarter 2023 Probes

Probe ID	Date/Time	CH4%	CO2%	O2%	Bal%	Temp. (F)
GMP-1	6/14/2023 9:32	0.0	0.1	21.7	78.1	72
GMV-1	6/14/2023 9:36	0.0	0.0	21.7	78.3	72
GMP-2	6/14/2023 9:38	0.0	0.1	21.6	78.3	73
GMV-2	6/14/2023 9:40	0.0	0.2	21.3	78.5	72
GMP-3	6/14/2023 9:44	0.0	0.6	20.8	78.6	72
GMV-3	6/14/2023 9:46	0.0	0.3	21.1	78.6	72
GMP-4	6/14/2023 9:50	0.0	0.0	21.4	78.6	72
GMV-4	6/14/2023 9:54	0.0	1.2	19.9	78.9	72
GMP-5	6/14/2023 9:57	0.0	3.6	16.6	79.8	72
GMV-5	6/14/2023 10:00	0.0	2.4	18.7	78.9	72
GMP-6	6/14/2023 10:03	0.0	0.5	20.7	78.8	72
GMV-6	6/14/2023 10:07	0.0	0.7	20.3	79.0	72
GMP-7	6/14/2023 10:09	0.0	0.6	20.4	79.0	72
GMV-7	6/14/2023 10:13	0.0	1.3	19.9	78.8	72
GMP-8	6/14/2023 10:16	0.0	0.5	20.7	78.8	72
GMV-8	6/14/2023 10:19	0.0	0.3	20.9	78.8	72
GMP-9	6/14/2023 10:24	0.0	0.1	21.2	78.7	72
GMV-9	6/14/2023 10:27	0.0	1.2	20	78.8	72
GMP-10	6/14/2023 10:30	0.0	0.4	20.9	78.7	72
GMV-10	6/14/2023 10:32	0.1	0.8	20.4	78.7	72
GM1A	6/14/2023 10:38	0.0	0.6	20.5	78.9	72
GM2A	6/14/2023 10:43	0.0	0.4	20.6	79.0	72
GM3A	6/14/2023 10:47	0.0	0.6	20.5	78.9	72
GM4A	6/14/2023 10:51	0.1	0.6	20.4	78.9	72
GM5A	6/14/2023 10:54	0.1	2.0	19.2	78.7	72
GM6A	6/14/2023 10:59	0.1	0.5	20.6	78.8	72
GM7	6/14/2023 11:01	0.1	0.5	20.4	79.0	72
GM9	6/14/2023 11:16	0.1	0.3	20.7	78.9	72
GM10	6/14/2023 11:18	0.1	0.2	20.9	78.8	72
GM11	6/14/2023 11:24	0.1	0.5	20.7	78.7	72
GM12	6/14/2023 11:27	0.1	0.5	20.8	78.6	72
GM13	6/14/2023 11:31	0.1	0.5	20.8	78.6	72
GM14	6/14/2023 11:10	0.1	0.5	20.5	78.9	72
GM15	6/14/2023 11:04	0.1	0.5	20.5	78.9	72

Al Turi Landfill
Third Quarter 2023 Probes

Probe ID	Date/Time	CH4%	CO2%	O2%	Bal%	Temp. (F)
GMP-1	9/28/2023 13:00	0.0	0.3	20.5	79.2	61
GMV-1	9/28/2023 13:05	0.0	0.0	20.6	79.4	61
GMP-2	9/28/2023 13:10	0.0	0.1	20.6	79.3	61
GMV-2	9/28/2023 13:15	0.0	0.0	20.5	79.5	61
GMP-3	9/28/2023 13:20	0.0	0.2	20.5	79.3	61
GMV-3	9/28/2023 13:25	0.0	0.2	20.5	79.3	61
GMP-4	9/28/2023 13:30	0.0	0.1	20.6	79.3	61
GMV-4	9/28/2023 13:35	0.0	0.1	20.6	79.3	61
GMP-5	9/28/2023 13:40	0.0	0.2	20.6	79.2	61
GMV-5	9/28/2023 13:45	0.0	0.1	20.4	79.5	61
GMP-6	9/28/2023 13:50	0.0	0.1	20.3	79.6	61
GMV-6	9/28/2023 13:55	0.0	0.1	20.6	79.3	61
GMP-7	9/28/2023 14:00	0.0	0.1	20.6	79.3	61
GMV-7	9/28/2023 14:05	0.0	0.0	20.7	79.3	61
GMP-8	9/28/2023 16:00	0.0	0.0	20.8	79.2	64
GMV-8	9/28/2023 16:05	0.0	0.0	20.9	79	64
GMP-9	9/28/2023 16:10	0.0	0.1	20.9	79	64
GMV-9	9/28/2023 16:15	0.0	0.2	20.8	79	64
GMP-10	9/28/2023 16:20	0.0	0.1	20.7	79.2	64
GMV-10	9/28/2023 16:25	0.0	0.3	20.6	79.1	64
GM1A	9/28/2023 16:30	0.0	0.0	20.9	79.1	64
GM2A	9/28/2023 16:35	0.0	0.1	20.8	79.1	64
GM3A	9/28/2023 16:40	0.0	0.0	20.9	79.1	64
GM4A	9/28/2023 16:45	0.0	0.1	19.8	80.1	64
GM5A	9/28/2023 16:50	0.0	0.1	20.7	79.2	64
GM6A	9/28/2023 16:55	0.0	0.3	20.5	79.3	64
GM7	9/28/2023 17:00	0.0	0.2	20.6	79.3	64
GM9	9/28/2023 17:15	0.0	0.0	20.8	79.2	64
GM10	9/28/2023 17:20	0.1	0.0	20.3	79.6	64
GM11	9/28/2023 17:25	0.0	0.2	20.6	79.2	64
GM12	9/28/2023 17:30	0.0	0.0	20.8	79.2	64
GM13	9/28/2023 17:35	0.1	0.0	20.6	79.3	64
GM14	9/28/2023 17:10	0.0	0.0	20.8	79.2	64
GM15	9/28/2023 17:05	0.0	0.0	20.8	79.2	64

Al Turi Landfill
Fourth Quarter 2023 Probes

Probe ID	Date/Time	CH4%	CO2%	O2%	Bal%	Temp. (F)
GMP-1	12/19/2023 10:19 AM	0.0	0.3	22.4	77.3	37
GMV-1	12/19/2023 10:23 AM	0.0	0.0	22.5	77.5	37
GMP-2	12/19/2023 10:31 AM	0.0	1.0	21.1	77.9	37
GMV-2	12/19/2023 10:35 AM	0.0	0.3	22.0	77.7	37
GMP-3	12/19/2023 10:39 AM	0.0	1.1	19.8	79.2	37
GMV-3	12/19/2023 10:43 AM	0.0	0.5	20.5	79.0	37
GMP-4	12/19/2023 10:49 AM	0.0	0.2	22.2	77.6	37
GMV-4	12/19/2023 10:52 AM	0.0	2.0	20.4	77.6	37
GMP-5	12/22/2023 10:58 AM	0.0	0.2	21.9	77.9	37
GMV-5	12/19/2023 11:03 AM	0.0	0.2	22.4	77.4	37
GMP-6	12/19/2023 11:08 AM	0.0	0.4	22.1	77.5	37
GMV-6	12/19/2023 11:16 AM	0.0	0.2	22.4	77.4	37
GMP-7	12/19/2023 11:24 AM	0.0	0.1	22.4	77.5	37
GMV-7	12/19/2023 11:29 AM	0.0	0.2	22.2	77.7	37
GMP-8	12/19/2023 11:34 AM	0.0	0.4	22.1	77.5	37
GMV-8	12/19/2023 11:39 AM	0.0	0.2	22.3	77.5	37
GMP-9	12/19/2023 11:43 AM	0.0	0.1	22.3	77.6	37
GMV-9	12/19/2023 11:48 AM	0.0	0.4	20.6	79.1	37
GMP-10	12/19/2023 11:52 AM	0.0	0.1	20.7	79.2	37
GMV-10	12/19/2023 12:02 PM	0.0	0.2	20.4	79.5	37
GM1A	12/19/2024 12:12 PM	0.0	0.0	21.1	78.9	37
GM2A	12/19/2024 12:16 PM	0.0	0.1	21.1	78.8	37
GM3A	12/19/2024 12:22 PM	0.0	0.2	21.0	78.8	37
GM4A	12/19/2024 12:29 PM	0.0	0.1	21.2	78.7	37
GM5A	12/19/2024 12:36 PM	0.0	0.1	21.2	78.7	37
GM6A	12/19/2024 12:40 PM	0.0	0.2	20.7	79.0	37
GM7	12/19/2024 12:45 PM	0.0	0.2	21.2	78.6	37
GM9	12/19/2024 1:02 PM	0.0	0.1	21.4	78.5	37
GM10	12/19/2024 1:07 PM	0.0	0.1	21.5	78.4	37
GM11	12/19/2024 1:10 PM	0.0	0.6	20.9	78.5	37
GM12	12/19/2024 1:17 PM	0.0	0.2	21.2	78.6	37
GM13	12/19/2023 1:22 PM	0.0	0.2	21.8	78.0	37
GM14	12/19/2024 12:57 PM	0.0	0.1	21.3	78.6	37
GM15	12/19/2024 12:51 PM	0.0	0.2	21.1	78.7	37

APPENDIX B: 2023 WATER QUALITY ANALYTICAL DATA



December 12, 2023

TJ Milo
Al Turi Landfill
73 Hartley Road
Goshen, NY 10924

RE: Project: OPERATIONAL WELLS 11/27
Pace Project No.: 70278834

Dear TJ Milo:

Enclosed are the analytical results for sample(s) received by the laboratory on November 28, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville
- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jennifer Aracri".

Jennifer Aracri for
Kimberley M. Mack
kimberley.mack@pacelabs.com
516-370-6052
Project Manager

Enclosures

cc: Marc Colantuono
Diane Conroy, Tetra Tech



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: OPERATIONAL WELLS 11/27

Pace Project No.: 70278834

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: OPERATIONAL WELLS 11/27

Pace Project No.: 70278834

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70278834001	WALL UP	EPA 6010C	JJS	15	PACE-MV
		ASTM D2216-05M	NAA	1	PACE-MV
		Lloyd Kahn	TJJ	1	PASI-G
70278834002	WALL DOWN	EPA 6010C	JJS	15	PACE-MV
		ASTM D2216-05M	NAA	1	PACE-MV
		Lloyd Kahn	TJJ	1	PASI-G

PACE-MV = Pace Analytical Services - Melville

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/27

Pace Project No.: 70278834

Sample: WALL UP Lab ID: 70278834001 Collected: 11/27/23 10:20 Received: 11/28/23 08:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Pace Analytical Services - Melville								
Aluminum	9240	mg/kg	15.0	1	12/04/23 08:02	12/04/23 15:15	7429-90-5	
Antimony	<4.5	mg/kg	4.5	1	12/04/23 08:02	12/04/23 15:15	7440-36-0	
Arsenic	5.7	mg/kg	0.75	1	12/04/23 08:02	12/04/23 15:15	7440-38-2	
Barium	66.9	mg/kg	15.0	1	12/04/23 08:02	12/04/23 15:15	7440-39-3	
Boron	5.0	mg/kg	3.8	1	12/04/23 08:02	12/04/23 15:15	7440-42-8	
Cadmium	<0.19	mg/kg	0.19	1	12/04/23 08:02	12/04/23 15:15	7440-43-9	
Cobalt	8.8	mg/kg	3.8	1	12/04/23 08:02	12/04/23 15:15	7440-48-4	
Copper	37.4	mg/kg	1.9	1	12/04/23 08:02	12/04/23 15:15	7440-50-8	
Iron	17200	mg/kg	7.5	1	12/04/23 08:02	12/04/23 15:15	7439-89-6	
Lead	23.1	mg/kg	0.38	1	12/04/23 08:02	12/04/23 15:15	7439-92-1	
Manganese	633	mg/kg	1.1	1	12/04/23 08:02	12/04/23 15:15	7439-96-5	
Nickel	20.0	mg/kg	3.0	1	12/04/23 08:02	12/04/23 15:15	7440-02-0	
Selenium	2.8	mg/kg	0.75	1	12/04/23 08:02	12/04/23 15:15	7782-49-2	
Vanadium	15.9	mg/kg	3.8	1	12/04/23 08:02	12/04/23 15:15	7440-62-2	
Zinc	108	mg/kg	1.5	1	12/04/23 08:02	12/04/23 15:15	7440-66-6	
Percent Moisture								
Analytical Method: ASTM D2216-05M								
Pace Analytical Services - Melville								
Percent Moisture	35.9	%	0.10	1		11/30/23 10:34		
TOC via Lloyd Kahn								
Analytical Method: Lloyd Kahn								
Pace Analytical Services - Green Bay								
Total Organic Carbon	81100	mg/kg	10100	1		12/11/23 08:41	7440-44-0	C4

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/27

Pace Project No.: 70278834

Sample: WALL DOWN Lab ID: 70278834002 Collected: 11/27/23 10:45 Received: 11/28/23 08:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Pace Analytical Services - Melville								
Aluminum	10000	mg/kg	14.0	1	12/04/23 08:02	12/04/23 15:17	7429-90-5	M1
Antimony	<4.2	mg/kg	4.2	1	12/04/23 08:02	12/04/23 15:17	7440-36-0	M1
Arsenic	5.9	mg/kg	0.70	1	12/04/23 08:02	12/04/23 15:17	7440-38-2	
Barium	62.0	mg/kg	14.0	1	12/04/23 08:02	12/04/23 15:17	7440-39-3	M1
Boron	4.9	mg/kg	3.5	1	12/04/23 08:02	12/04/23 15:17	7440-42-8	
Cadmium	<0.18	mg/kg	0.18	1	12/04/23 08:02	12/04/23 15:17	7440-43-9	
Cobalt	9.2	mg/kg	3.5	1	12/04/23 08:02	12/04/23 15:17	7440-48-4	
Copper	30.1	mg/kg	1.8	1	12/04/23 08:02	12/04/23 15:17	7440-50-8	
Iron	17900	mg/kg	7.0	1	12/04/23 08:02	12/04/23 15:17	7439-89-6	M1
Lead	14.2	mg/kg	0.35	1	12/04/23 08:02	12/04/23 15:17	7439-92-1	
Manganese	675	mg/kg	1.1	1	12/04/23 08:02	12/04/23 15:17	7439-96-5	M1
Nickel	20.5	mg/kg	2.8	1	12/04/23 08:02	12/04/23 15:17	7440-02-0	
Selenium	2.9	mg/kg	0.70	1	12/04/23 08:02	12/04/23 15:17	7782-49-2	D6
Vanadium	17.5	mg/kg	3.5	1	12/04/23 08:02	12/04/23 15:17	7440-62-2	
Zinc	100	mg/kg	1.4	1	12/04/23 08:02	12/04/23 15:17	7440-66-6	
Percent Moisture								
Analytical Method: ASTM D2216-05M								
Pace Analytical Services - Melville								
Percent Moisture	28.0	%	0.10	1		11/30/23 10:35		
TOC via Lloyd Kahn								
Analytical Method: Lloyd Kahn								
Pace Analytical Services - Green Bay								
Total Organic Carbon	43900	mg/kg	4690	1		12/11/23 09:02	7440-44-0	C4,M0

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/27

Pace Project No.: 70278834

QC Batch: 329495

Analysis Method: EPA 6010C

QC Batch Method: EPA 3050B

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70278834001, 70278834002

METHOD BLANK: 1686855

Matrix: Solid

Associated Lab Samples: 70278834001, 70278834002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	mg/kg	<10.3	10.3	12/04/23 14:58	
Antimony	mg/kg	<3.1	3.1	12/04/23 14:58	
Arsenic	mg/kg	<0.51	0.51	12/04/23 14:58	
Barium	mg/kg	<10.3	10.3	12/04/23 14:58	
Boron	mg/kg	<2.6	2.6	12/04/23 14:58	
Cadmium	mg/kg	<0.13	0.13	12/04/23 14:58	
Cobalt	mg/kg	<2.6	2.6	12/04/23 14:58	
Copper	mg/kg	<1.3	1.3	12/04/23 14:58	
Iron	mg/kg	<5.1	5.1	12/04/23 14:58	
Lead	mg/kg	<0.26	0.26	12/04/23 14:58	
Manganese	mg/kg	<0.77	0.77	12/04/23 14:58	
Nickel	mg/kg	<2.1	2.1	12/04/23 14:58	
Selenium	mg/kg	<0.51	0.51	12/04/23 14:58	
Vanadium	mg/kg	<2.6	2.6	12/04/23 14:58	
Zinc	mg/kg	<1.0	1.0	12/04/23 14:58	

LABORATORY CONTROL SAMPLE: 1686856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/kg	7810	7050	90	47-153	
Antimony	mg/kg	133	51.9	39	10-202	
Arsenic	mg/kg	85.6	78.4	92	82-118	
Barium	mg/kg	340	341	100	80-120	
Boron	mg/kg	130	139	107	64-136	
Cadmium	mg/kg	157	158	101	79-121	
Cobalt	mg/kg	236	249	106	80-120	
Copper	mg/kg	141	133	94	83-118	
Iron	mg/kg	13900	9990	72	61-139	
Lead	mg/kg	261	238	92	82-118	
Manganese	mg/kg	544	539	99	79-121	
Nickel	mg/kg	343	353	103	79-121	
Selenium	mg/kg	127	120	94	78-123	
Vanadium	mg/kg	86.8	83.7	97	77-123	
Zinc	mg/kg	157	157	100	79-121	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/27

Pace Project No.: 70278834

MATRIX SPIKE SAMPLE: 1686860		70278834002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Aluminum	mg/kg	10000	894	13000	327	75-125	M1
Antimony	mg/kg	<4.2	71.5	33.6	47	75-125	M1
Arsenic	mg/kg	5.9	35.8	40.0	95	75-125	
Barium	mg/kg	62.0	35.8	111	137	75-125	M1
Boron	mg/kg	4.9	71.5	72.3	94	75-125	
Cadmium	mg/kg	<0.18	35.8	34.5	96	75-125	
Cobalt	mg/kg	9.2	35.8	44.8	100	75-125	
Copper	mg/kg	30.1	35.8	62.0	89	75-125	
Iron	mg/kg	17900	358	17700	-37	75-125	M1
Lead	mg/kg	14.2	35.8	47.4	93	75-125	
Manganese	mg/kg	675	35.8	701	73	75-125	M1
Nickel	mg/kg	20.5	35.8	54.7	96	75-125	
Selenium	mg/kg	2.9	35.8	35.1	90	75-125	
Vanadium	mg/kg	17.5	35.8	57.4	112	75-125	
Zinc	mg/kg	100	35.8	134	94	75-125	

SAMPLE DUPLICATE: 1686859

Parameter	Units	70278834002	Dup		
		Result	Result	RPD	Qualifiers
Aluminum	mg/kg	10000	8570	16	
Antimony	mg/kg	<4.2	<3.9		
Arsenic	mg/kg	5.9	5.1	16	
Barium	mg/kg	62.0	53.7	14	
Boron	mg/kg	4.9	4.0	19	
Cadmium	mg/kg	<0.18	<0.16		
Cobalt	mg/kg	9.2	8.0	14	
Copper	mg/kg	30.1	25.3	17	
Iron	mg/kg	17900	15400	15	
Lead	mg/kg	14.2	12.2	15	
Manganese	mg/kg	675	591	13	
Nickel	mg/kg	20.5	17.5	16	
Selenium	mg/kg	2.9	2.2	27	D6
Vanadium	mg/kg	17.5	14.9	16	
Zinc	mg/kg	100	89.6	11	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/27

Pace Project No.: 70278834

QC Batch: 329209

Analysis Method: ASTM D2216-05M

QC Batch Method: ASTM D2216-05M

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70278834001, 70278834002

SAMPLE DUPLICATE: 1684755

Parameter	Units	70278834001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	35.9	35.1	2	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/27

Pace Project No.: 70278834

QC Batch: 462348

Analysis Method: Lloyd Kahn

QC Batch Method: Lloyd Kahn

Analysis Description: Lloyd Kahn TOC

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 70278834001, 70278834002

METHOD BLANK: 2653864

Matrix: Solid

Associated Lab Samples: 70278834001, 70278834002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/kg	<100	100	12/11/23 08:29	

LABORATORY CONTROL SAMPLE: 2653865

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/kg	2000	1970	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2653866 2653867

Parameter	Units	70278834002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Total Organic Carbon	mg/kg	43900	29900	28700	64900	71200	71	95	80-120	9	M0

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QUALIFIERS

Project: OPERATIONAL WELLS 11/27

Pace Project No.: 70278834

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

C4 Sample container did not meet EPA or method requirements.

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OPERATIONAL WELLS 11/27

Pace Project No.: 70278834

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70278834001	WALL UP	EPA 3050B	329495	EPA 6010C	329539
70278834002	WALL DOWN	EPA 3050B	329495	EPA 6010C	329539
70278834001	WALL UP	ASTM D2216-05M	329209		
70278834002	WALL DOWN	ASTM D2216-05M	329209		
70278834001	WALL UP	Lloyd Kahn	462348		
70278834002	WALL DOWN	Lloyd Kahn	462348		

REPORT OF LABORATORY ANALYSIS

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Client: Alturi

Profile #:

5884

☐	Use Point Number Spreadsheet	☐	Multiday Project
--------------------------	------------------------------	--------------------------	------------------

Multiday Project

Work ID: Operational Wells 112

Add SCLOGFD to first sample for field charge

[illegible]

Container Codes

	Glass	Plastic	Misc.
V99U	40mL unpres clear vial -	BP4UJ 125mL unpreserved plastic	SP3T 120mL Corform Na Thio
V99C	40mL Ascorbic-HCl clear vial	BP3UJ 250mL unpreserved plastic	R Terracore Kil
V99H	40mL HCl clear vial	AG2UJ 500mL unpreserved plastic	WG2U 2oz Unpreserved Jar
V99S	40mL Sulfuric clear vial	BP1UJ 1L unpreserved plastic	WGFU 4oz Unpreserved Jar
DG9T	40mL Na Thiocysulfate vial	BP4N 125mL HNO3 plastic	WGU 8oz Unpreserved Jar
DG9Y	40mL Citrate-Na Thiocysulfate	BP3N 250mL HNO3 plastic	WGPU 16oz Unpreserved Jar
DG9P	40mL amber vial - TSP	BP2N 500mL HNO3 plastic	ZPLC Ziplock Bag
DG9A	Ascorbic/Maleic Acid 40mL	AG3T 250mL Na Thio amber glass	TEDL Tedlar Bag
DG6T	Na Thio 60mL Vial	BP2S 500mL H2SO4 plastic	BG1H 1L HCL Clear Glass
DG6S	Ammonium Cl/CUSO4 40mL	BP3C NaOH 250mL bottle	GN General
CG1U	1L Unpres Jar (Con Ed)	BP3T 250mL Trizma	WP Wipe
		BP3S 250mL Ammonium Acetate	
WG9Q	8oz clear soil jar	BP3R 250mL NH4SO4-NH4OH	
WG4O	4oz clear soil jar	BP1Z 1L NaOH, Zn Acetate	
		BP1N 1L HNO3 plastic	

	DOC
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium Hydroxide
AG2U	500mL unpres amber glass

- Can also be a GP4N

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	Oil
WP	Wipe
DW	Drinking Water

	SDC
VG9T	40mL Na Thio amber vial
DG9A	40mL Ascorbic acid/ maleic Acid vials
DG9V	Citrate/Na Thiosulfate 40mL
DG8T	Na Thiosulfate 60mL vial
DG6M	MonoClacetic/Na Thio 60mL
AG3U	250mL unpres amber glass
AG3T	Na Thiosulfate 250mL bottle
BP1B	Na Thiosulfate Amber bottle
AG1T	Na Thiosulfate 1L Amber
AG1A	50% S Chemical/Bleach

Sender Initials

Additional Comments

WO#: 70278834

PM: KMM
Due Date: 12/12/23

CLIENT: ALTURI



December 12, 2023

TJ Milo
Al Turi Landfill
73 Hartley Road
Goshen, NY 10924

RE: Project: OPERATIONAL WELLS LEA. 11/27
Pace Project No.: 70278844

Dear TJ Milo:

Enclosed are the analytical results for sample(s) received by the laboratory on November 28, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jennifer Aracri".

Jennifer Aracri for
Kimberley M. Mack
kimberley.mack@pacelabs.com
516-370-6052
Project Manager

Enclosures

cc: Marc Colantuono
Diane Conroy, Tetra Tech



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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SAMPLE ANALYTE COUNT

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70278844001	LEACHATE 11S	SM22 2340B	JJS	1	PACE-MV
		EPA 6010C	JJS	24	PACE-MV
		EPA 120.1	RESE	1	PACE-MV
		EPA 180.1	GEL	1	PACE-MV
		SM22 2320B	JWM	1	PACE-MV
		EPA 410.4	JCA	1	PACE-MV
		SM22 5210B	VNS	1	PACE-MV
		EPA 300.0	RESE	3	PACE-MV
		EPA 351.2	JP1	1	PACE-MV
		EPA 353.2	JP1	1	PACE-MV
		EPA 420.1	CEA	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		EPA 9060A	JWM	5	PACE-MV
		SM22 2340B	JJS	1	PACE-MV
		EPA 6010C	JJS	24	PACE-MV
70278844002	LEACHATE 11P	EPA 120.1	RESE	1	PACE-MV
		EPA 180.1	GEL	1	PACE-MV
		SM22 2320B	JWM	1	PACE-MV
		EPA 410.4	JCA	1	PACE-MV
		SM22 5210B	VNS	1	PACE-MV
		EPA 300.0	RESE	3	PACE-MV
		EPA 351.2	JP1	1	PACE-MV
		EPA 353.2	JP1	1	PACE-MV
		EPA 420.1	CEA	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		EPA 9060A	JWM	5	PACE-MV
		SM22 2340B	JJS	1	PACE-MV
		EPA 6010C	JJS	24	PACE-MV
		EPA 120.1	RESE	1	PACE-MV
		EPA 180.1	GEL	1	PACE-MV
70278844003	LEACHATE 12S	SM22 2320B	JWM	1	PACE-MV
		SM22 2540C	AKM	1	PACE-MV
		EPA 410.4	JCA	1	PACE-MV
		SM22 5210B	VNS	1	PACE-MV
		EPA 300.0	RESE	3	PACE-MV
		EPA 351.2	JP1	1	PACE-MV
		EPA 353.2	JP1	1	PACE-MV

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SAMPLE ANALYTE COUNT

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70278844004	LEACHATE 12P	EPA 420.1	CEA	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		EPA 9060A	JWM	5	PACE-MV
		SM22 2340B	JJS	1	PACE-MV
		EPA 6010C	JJS	24	PACE-MV
		EPA 120.1	RESE	1	PACE-MV
		EPA 180.1	GEL	1	PACE-MV
		SM22 2320B	JWM	1	PACE-MV
		SM22 2540C	AKM	1	PACE-MV
		EPA 410.4	JCA	1	PACE-MV
		SM22 5210B	VNS	1	PACE-MV
		EPA 300.0	RESE	3	PACE-MV
		EPA 351.2	JP1	1	PACE-MV
		EPA 353.2	JP1	1	PACE-MV
		EPA 420.1	CEA	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		EPA 9060A	JWM	5	PACE-MV

PACE-MV = Pace Analytical Services - Melville

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

Sample: LEACHATE 11S		Lab ID: 70278844001	Collected: 11/27/23 12:00		Received: 11/28/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method: Pace Analytical Services - Melville						
Field pH	7.3	Std. Units		1		11/27/23 12:00		
Field Temperature	9.5	deg C		1		11/27/23 12:00		
Field Specific Conductance	860.2	umhos/cm		1		11/27/23 12:00		
Eh	149	mV		1		11/27/23 12:00		
Field Turbidity	6.53	NTU		1		11/27/23 12:00		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B)	248000	ug/L	830	1		12/01/23 17:17		
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville						
Aluminum	<200	ug/L	200	1	11/29/23 08:10	12/01/23 17:17	7429-90-5	
Antimony	<60.0	ug/L	60.0	1	11/29/23 08:10	12/01/23 17:17	7440-36-0	
Arsenic	<10.0	ug/L	10.0	1	11/29/23 08:10	12/01/23 17:17	7440-38-2	
Barium	<200	ug/L	200	1	11/29/23 08:10	12/01/23 17:17	7440-39-3	
Beryllium	<5.0	ug/L	5.0	1	11/29/23 08:10	12/01/23 17:17	7440-41-7	
Boron	127	ug/L	50.0	1	11/29/23 08:10	12/01/23 17:17	7440-42-8	
Cadmium	<2.5	ug/L	2.5	1	11/29/23 08:10	12/01/23 17:17	7440-43-9	
Calcium	64900	ug/L	200	1	11/29/23 08:10	12/01/23 17:17	7440-70-2	
Chromium	<10.0	ug/L	10.0	1	11/29/23 08:10	12/01/23 17:17	7440-47-3	
Cobalt	<50.0	ug/L	50.0	1	11/29/23 08:10	12/01/23 17:17	7440-48-4	
Copper	<25.0	ug/L	25.0	1	11/29/23 08:10	12/01/23 17:17	7440-50-8	
Iron	<100	ug/L	100	1	11/29/23 08:10	12/01/23 17:17	7439-89-6	
Lead	<5.0	ug/L	5.0	1	11/29/23 08:10	12/01/23 17:17	7439-92-1	
Magnesium	20800	ug/L	200	1	11/29/23 08:10	12/01/23 17:17	7439-95-4	
Manganese	429	ug/L	10.0	1	11/29/23 08:10	12/01/23 17:17	7439-96-5	
Nickel	<40.0	ug/L	40.0	1	11/29/23 08:10	12/01/23 17:17	7440-02-0	
Potassium	9500	ug/L	5000	1	11/29/23 08:10	12/01/23 17:17	7440-09-7	
Selenium	<10.0	ug/L	10.0	1	11/29/23 08:10	12/01/23 17:17	7782-49-2	
Silver	<10.0	ug/L	10.0	1	11/29/23 08:10	12/01/23 17:17	7440-22-4	
Sodium	40000	ug/L	5000	1	11/29/23 08:10	12/01/23 17:17	7440-23-5	
Thallium	<10.0	ug/L	10.0	1	11/29/23 08:10	12/01/23 17:17	7440-28-0	
Tin	<50.0	ug/L	50.0	1	11/29/23 08:10	12/01/23 17:17	7440-31-5	
Vanadium	<50.0	ug/L	50.0	1	11/29/23 08:10	12/01/23 17:17	7440-62-2	
Zinc	74.0	ug/L	20.0	1	11/29/23 08:10	12/01/23 17:17	7440-66-6	
120.1 Specific Conductance		Analytical Method: EPA 120.1 Pace Analytical Services - Melville						
Specific Conductance	688	umhos/cm	1.0	1		12/08/23 12:56		
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville						
Turbidity	3.0	NTU	1.0	1		11/28/23 22:44		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

Sample: LEACHATE 11S		Lab ID: 70278844001		Collected: 11/27/23 12:00		Received: 11/28/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	140	mg/L	1.0	1		12/06/23 10:58			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	29.1	mg/L	10.0	1	12/01/23 05:02	12/01/23 07:19			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<2.0	mg/L	2.0	1	11/29/23 11:10	12/04/23 09:37			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<0.50	mg/L	0.50	1		12/08/23 02:47	24959-67-9		
Chloride	48.8	mg/L	2.0	1		12/08/23 02:47	16887-00-6		
Sulfate	96.0	mg/L	5.0	1		12/08/23 02:47	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	<0.10	mg/L	0.10	1	12/08/23 03:53	12/08/23 16:26	7727-37-9		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	9.9	mg/L	0.25	5		12/04/23 14:31	7727-37-9		
Phenolics, Total Recoverable		Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	56.8	ug/L	10.0	1	12/07/23 12:00	12/07/23 16:50			
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	0.16	mg/L	0.10	1		12/06/23 15:11	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	6.9	mg/L	1.0	1		12/07/23 17:45	7440-44-0		
Total Organic Carbon	5.7	mg/L	1.0	1		12/07/23 17:45	7440-44-0		
Total Organic Carbon	5.9	mg/L	1.0	1		12/07/23 17:45	7440-44-0		
Total Organic Carbon	6.5	mg/L	1.0	1		12/07/23 17:45	7440-44-0		
Mean Total Organic Carbon	6.2	mg/L	1.0	1		12/07/23 17:45	7440-44-0		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

Sample: LEACHATE 11P		Lab ID: 70278844002	Collected: 11/27/23 12:10		Received: 11/28/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method: Pace Analytical Services - Melville						
Field pH	7.01	Std. Units		1		11/27/23 12:10		
Field Temperature	8.2	deg C		1		11/27/23 12:10		
Field Specific Conductance	570.6	umhos/cm		1		11/27/23 12:10		
Eh	175	mV		1		11/27/23 12:10		
Field Turbidity	42.7	NTU		1		11/27/23 12:10		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B)	150000	ug/L	830	1		12/01/23 17:20		
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville						
Aluminum	<200	ug/L	200	1	11/29/23 08:10	12/01/23 17:20	7429-90-5	
Antimony	<60.0	ug/L	60.0	1	11/29/23 08:10	12/01/23 17:20	7440-36-0	
Arsenic	<10.0	ug/L	10.0	1	11/29/23 08:10	12/01/23 17:20	7440-38-2	
Barium	<200	ug/L	200	1	11/29/23 08:10	12/01/23 17:20	7440-39-3	
Beryllium	<5.0	ug/L	5.0	1	11/29/23 08:10	12/01/23 17:20	7440-41-7	
Boron	110	ug/L	50.0	1	11/29/23 08:10	12/01/23 17:20	7440-42-8	
Cadmium	<2.5	ug/L	2.5	1	11/29/23 08:10	12/01/23 17:20	7440-43-9	
Calcium	48900	ug/L	200	1	11/29/23 08:10	12/01/23 17:20	7440-70-2	
Chromium	<10.0	ug/L	10.0	1	11/29/23 08:10	12/01/23 17:20	7440-47-3	
Cobalt	<50.0	ug/L	50.0	1	11/29/23 08:10	12/01/23 17:20	7440-48-4	
Copper	<25.0	ug/L	25.0	1	11/29/23 08:10	12/01/23 17:20	7440-50-8	
Iron	4070	ug/L	100	1	11/29/23 08:10	12/01/23 17:20	7439-89-6	
Lead	<5.0	ug/L	5.0	1	11/29/23 08:10	12/01/23 17:20	7439-92-1	
Magnesium	6750	ug/L	200	1	11/29/23 08:10	12/01/23 17:20	7439-95-4	
Manganese	20.0	ug/L	10.0	1	11/29/23 08:10	12/01/23 17:20	7439-96-5	
Nickel	<40.0	ug/L	40.0	1	11/29/23 08:10	12/01/23 17:20	7440-02-0	
Potassium	12700	ug/L	5000	1	11/29/23 08:10	12/01/23 17:20	7440-09-7	
Selenium	<10.0	ug/L	10.0	1	11/29/23 08:10	12/01/23 17:20	7782-49-2	
Silver	<10.0	ug/L	10.0	1	11/29/23 08:10	12/01/23 17:20	7440-22-4	
Sodium	43600	ug/L	5000	1	11/29/23 08:10	12/01/23 17:20	7440-23-5	
Thallium	<10.0	ug/L	10.0	1	11/29/23 08:10	12/01/23 17:20	7440-28-0	
Tin	<50.0	ug/L	50.0	1	11/29/23 08:10	12/01/23 17:20	7440-31-5	
Vanadium	<50.0	ug/L	50.0	1	11/29/23 08:10	12/01/23 17:20	7440-62-2	
Zinc	53.8	ug/L	20.0	1	11/29/23 08:10	12/01/23 17:20	7440-66-6	
120.1 Specific Conductance		Analytical Method: EPA 120.1 Pace Analytical Services - Melville						
Specific Conductance	547	umhos/cm	1.0	1		12/08/23 12:58		
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville						
Turbidity	18.0	NTU	1.0	1		11/28/23 22:46		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

Sample: LEACHATE 11P		Lab ID: 70278844002		Collected: 11/27/23 12:10		Received: 11/28/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	99.0	mg/L	1.0	1		12/06/23 11:06			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	22.6	mg/L	10.0	1	12/01/23 05:02	12/01/23 07:19			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<2.0	mg/L	2.0	1	11/29/23 11:15	12/04/23 09:39			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<0.50	mg/L	0.50	1		12/08/23 02:59	24959-67-9		
Chloride	74.7	mg/L	2.0	1		12/08/23 02:59	16887-00-6		
Sulfate	41.2	mg/L	5.0	1		12/08/23 02:59	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	0.63	mg/L	0.10	1	12/08/23 03:53	12/08/23 16:18	7727-37-9		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	3.0	mg/L	0.25	5		12/04/23 14:32	7727-37-9		
Phenolics, Total Recoverable		Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	23.3	ug/L	10.0	1	12/07/23 12:00	12/07/23 15:58			
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		12/06/23 15:12	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	7.3	mg/L	1.0	1		12/07/23 17:59	7440-44-0		
Total Organic Carbon	7.3	mg/L	1.0	1		12/07/23 17:59	7440-44-0		
Total Organic Carbon	6.8	mg/L	1.0	1		12/07/23 17:59	7440-44-0		
Total Organic Carbon	6.8	mg/L	1.0	1		12/07/23 17:59	7440-44-0		
Mean Total Organic Carbon	7.0	mg/L	1.0	1		12/07/23 17:59	7440-44-0		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

Sample: LEACHATE 12S		Lab ID: 70278844003		Collected: 11/27/23 11:30		Received: 11/28/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
Field Data		Analytical Method: Pace Analytical Services - Melville							
Field pH	7.22	Std. Units		1		11/27/23 11:30			
Field Temperature	11.1	deg C		1		11/27/23 11:30			
Field Specific Conductance	595.1	umhos/cm		1		11/27/23 11:30			
Eh	175	mV		1		11/27/23 11:30			
Field Turbidity	2.82	NTU		1		11/27/23 11:30			
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B)	314000	ug/L	830	1		12/01/23 17:23			
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Aluminum	<200	ug/L	200	1	11/29/23 08:10	12/01/23 17:23	7429-90-5		
Antimony	<60.0	ug/L	60.0	1	11/29/23 08:10	12/01/23 17:23	7440-36-0		
Arsenic	<10.0	ug/L	10.0	1	11/29/23 08:10	12/01/23 17:23	7440-38-2		
Barium	<200	ug/L	200	1	11/29/23 08:10	12/01/23 17:23	7440-39-3		
Beryllium	<5.0	ug/L	5.0	1	11/29/23 08:10	12/01/23 17:23	7440-41-7		
Boron	<50.0	ug/L	50.0	1	11/29/23 08:10	12/01/23 17:23	7440-42-8		
Cadmium	<2.5	ug/L	2.5	1	11/29/23 08:10	12/01/23 17:23	7440-43-9		
Calcium	106000	ug/L	200	1	11/29/23 08:10	12/01/23 17:23	7440-70-2		
Chromium	<10.0	ug/L	10.0	1	11/29/23 08:10	12/01/23 17:23	7440-47-3		
Cobalt	<50.0	ug/L	50.0	1	11/29/23 08:10	12/01/23 17:23	7440-48-4		
Copper	<25.0	ug/L	25.0	1	11/29/23 08:10	12/01/23 17:23	7440-50-8		
Iron	<100	ug/L	100	1	11/29/23 08:10	12/01/23 17:23	7439-89-6		
Lead	<5.0	ug/L	5.0	1	11/29/23 08:10	12/01/23 17:23	7439-92-1		
Magnesium	12000	ug/L	200	1	11/29/23 08:10	12/01/23 17:23	7439-95-4		
Manganese	27.6	ug/L	10.0	1	11/29/23 08:10	12/01/23 17:23	7439-96-5		
Nickel	<40.0	ug/L	40.0	1	11/29/23 08:10	12/01/23 17:23	7440-02-0		
Potassium	5400	ug/L	5000	1	11/29/23 08:10	12/01/23 17:23	7440-09-7		
Selenium	<10.0	ug/L	10.0	1	11/29/23 08:10	12/01/23 17:23	7782-49-2		
Silver	<10.0	ug/L	10.0	1	11/29/23 08:10	12/01/23 17:23	7440-22-4		
Sodium	<5000	ug/L	5000	1	11/29/23 08:10	12/01/23 17:23	7440-23-5		
Thallium	<10.0	ug/L	10.0	1	11/29/23 08:10	12/01/23 17:23	7440-28-0		
Tin	<50.0	ug/L	50.0	1	11/29/23 08:10	12/01/23 17:23	7440-31-5		
Vanadium	<50.0	ug/L	50.0	1	11/29/23 08:10	12/01/23 17:23	7440-62-2		
Zinc	50.3	ug/L	20.0	1	11/29/23 08:10	12/01/23 17:23	7440-66-6		
120.1 Specific Conductance		Analytical Method: EPA 120.1 Pace Analytical Services - Melville							
Specific Conductance	587	umhos/cm	1.0	1		12/08/23 12:59			
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville							
Turbidity	2.3	NTU	1.0	1		11/28/23 22:47			

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

Sample: LEACHATE 12S		Lab ID: 70278844003		Collected: 11/27/23 11:30		Received: 11/28/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	309	mg/L	1.0	1		12/06/23 11:21			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	351	mg/L	10.0	1		11/30/23 16:51			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	20.5	mg/L	10.0	1	12/01/23 05:02	12/01/23 07:19			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<2.0	mg/L	2.0	1	11/29/23 11:19	12/04/23 09:41			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<0.50	mg/L	0.50	1		12/08/23 03:12	24959-67-9		
Chloride	<2.0	mg/L	2.0	1		12/08/23 03:12	16887-00-6		
Sulfate	14.9	mg/L	5.0	1		12/08/23 03:12	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	0.67	mg/L	0.10	1	12/08/23 03:53	12/08/23 16:19	7727-37-9		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	0.27	mg/L	0.050	1		12/04/23 14:04	7727-37-9		
Phenolics, Total Recoverable		Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	93.9	ug/L	10.0	1	12/07/23 12:00	12/07/23 15:59			
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		12/06/23 15:13	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	7.7	mg/L	1.0	1		12/07/23 18:13	7440-44-0		
Total Organic Carbon	7.8	mg/L	1.0	1		12/07/23 18:13	7440-44-0		
Total Organic Carbon	7.8	mg/L	1.0	1		12/07/23 18:13	7440-44-0		
Total Organic Carbon	7.1	mg/L	1.0	1		12/07/23 18:13	7440-44-0		
Mean Total Organic Carbon	7.6	mg/L	1.0	1		12/07/23 18:13	7440-44-0		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

Sample: LEACHATE 12P		Lab ID: 70278844004		Collected: 11/27/23 11:45		Received: 11/28/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
Field Data		Analytical Method: Pace Analytical Services - Melville							
Field pH	6.7	Std. Units		1		11/27/23 11:45			
Field Temperature	12.6	deg C		1		11/27/23 11:45			
Field Specific Conductance	3210	umhos/cm		1		11/27/23 11:45			
Eh	-4	mV		1		11/27/23 11:45			
Field Turbidity	24.2	NTU		1		11/27/23 11:45			
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B)	448000	ug/L	830	1		12/01/23 17:25			
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Aluminum	453	ug/L	200	1	11/29/23 08:10	12/01/23 17:25	7429-90-5		
Antimony	<60.0	ug/L	60.0	1	11/29/23 08:10	12/01/23 17:25	7440-36-0		
Arsenic	35.4	ug/L	10.0	1	11/29/23 08:10	12/01/23 17:25	7440-38-2		
Barium	<200	ug/L	200	1	11/29/23 08:10	12/01/23 17:25	7440-39-3		
Beryllium	<5.0	ug/L	5.0	1	11/29/23 08:10	12/01/23 17:25	7440-41-7		
Boron	1150	ug/L	50.0	1	11/29/23 08:10	12/01/23 17:25	7440-42-8		
Cadmium	<2.5	ug/L	2.5	1	11/29/23 08:10	12/01/23 17:25	7440-43-9		
Calcium	123000	ug/L	200	1	11/29/23 08:10	12/01/23 17:25	7440-70-2		
Chromium	<10.0	ug/L	10.0	1	11/29/23 08:10	12/01/23 17:25	7440-47-3		
Cobalt	<50.0	ug/L	50.0	1	11/29/23 08:10	12/01/23 17:25	7440-48-4		
Copper	<25.0	ug/L	25.0	1	11/29/23 08:10	12/01/23 17:25	7440-50-8		
Iron	15400	ug/L	100	1	11/29/23 08:10	12/01/23 17:25	7439-89-6		
Lead	<5.0	ug/L	5.0	1	11/29/23 08:10	12/01/23 17:25	7439-92-1		
Magnesium	34300	ug/L	200	1	11/29/23 08:10	12/01/23 17:25	7439-95-4		
Manganese	1010	ug/L	10.0	1	11/29/23 08:10	12/01/23 17:25	7439-96-5		
Nickel	41.8	ug/L	40.0	1	11/29/23 08:10	12/01/23 17:25	7440-02-0		
Potassium	99800	ug/L	5000	1	11/29/23 08:10	12/01/23 17:25	7440-09-7		
Selenium	<10.0	ug/L	10.0	1	11/29/23 08:10	12/01/23 17:25	7782-49-2		
Silver	<10.0	ug/L	10.0	1	11/29/23 08:10	12/01/23 17:25	7440-22-4		
Sodium	221000	ug/L	5000	1	11/29/23 08:10	12/01/23 17:25	7440-23-5		
Thallium	<10.0	ug/L	10.0	1	11/29/23 08:10	12/01/23 17:25	7440-28-0		
Tin	<50.0	ug/L	50.0	1	11/29/23 08:10	12/01/23 17:25	7440-31-5		
Vanadium	<50.0	ug/L	50.0	1	11/29/23 08:10	12/01/23 17:25	7440-62-2		
Zinc	198	ug/L	20.0	1	11/29/23 08:10	12/01/23 17:25	7440-66-6		
120.1 Specific Conductance		Analytical Method: EPA 120.1 Pace Analytical Services - Melville							
Specific Conductance	3230	umhos/cm	1.0	1		12/08/23 13:00			
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville							
Turbidity	110	NTU	3.0	3		11/28/23 22:50			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

Sample: LEACHATE 12P		Lab ID: 70278844004		Collected: 11/27/23 11:45		Received: 11/28/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	1170	mg/L	1.0	1		12/06/23 12:03			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	1000	mg/L	500	1		11/30/23 16:52			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	165	mg/L	10.0	1	12/01/23 05:02	12/01/23 07:19			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	19.8	mg/L	4.0	2	11/29/23 11:25	12/04/23 09:43		R6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	1.2	mg/L	0.50	1		12/08/23 03:24	24959-67-9		
Chloride	312	mg/L	10.0	5		12/08/23 23:21	16887-00-6		
Sulfate	8.0	mg/L	5.0	1		12/08/23 03:24	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	157	mg/L	10.0	20	12/08/23 03:53	12/08/23 16:30	7727-37-9		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	<0.050	mg/L	0.050	1		12/04/23 14:05	7727-37-9		
Phenolics, Total Recoverable		Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	73.1	ug/L	10.0	1	12/07/23 12:00	12/07/23 16:00			
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	582	mg/L	20.0	200		12/06/23 15:23	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	40.6	mg/L	1.0	1		12/07/23 18:29	7440-44-0		
Total Organic Carbon	52.0	mg/L	1.0	1		12/07/23 18:29	7440-44-0		
Total Organic Carbon	52.6	mg/L	1.0	1		12/07/23 18:29	7440-44-0		
Total Organic Carbon	51.8	mg/L	1.0	1		12/07/23 18:29	7440-44-0		
Mean Total Organic Carbon	49.2	mg/L	1.0	1		12/07/23 18:29	7440-44-0		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

QC Batch: 329068 Analysis Method: EPA 6010C
QC Batch Method: EPA 3005A Analysis Description: 6010 MET Water
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70278844001, 70278844002, 70278844003, 70278844004

METHOD BLANK: 1683925 Matrix: Water

Associated Lab Samples: 70278844001, 70278844002, 70278844003, 70278844004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	12/01/23 17:12	
Antimony	ug/L	<60.0	60.0	12/01/23 17:12	
Arsenic	ug/L	<10.0	10.0	12/01/23 17:12	
Barium	ug/L	<200	200	12/01/23 17:12	
Beryllium	ug/L	<5.0	5.0	12/01/23 17:12	
Boron	ug/L	<50.0	50.0	12/01/23 17:12	
Cadmium	ug/L	<2.5	2.5	12/01/23 17:12	
Calcium	ug/L	<200	200	12/01/23 17:12	
Chromium	ug/L	<10.0	10.0	12/01/23 17:12	
Cobalt	ug/L	<50.0	50.0	12/01/23 17:12	
Copper	ug/L	<25.0	25.0	12/01/23 17:12	
Iron	ug/L	<100	100	12/01/23 17:12	
Lead	ug/L	<5.0	5.0	12/01/23 17:12	
Magnesium	ug/L	<200	200	12/01/23 17:12	
Manganese	ug/L	<10.0	10.0	12/01/23 17:12	
Nickel	ug/L	<40.0	40.0	12/01/23 17:12	
Potassium	ug/L	<5000	5000	12/01/23 17:12	
Selenium	ug/L	<10.0	10.0	12/01/23 17:12	
Silver	ug/L	<10.0	10.0	12/01/23 17:12	
Sodium	ug/L	<5000	5000	12/01/23 17:12	
Thallium	ug/L	<10.0	10.0	12/01/23 17:12	
Tin	ug/L	<50.0	50.0	12/01/23 17:12	
Vanadium	ug/L	<50.0	50.0	12/01/23 17:12	
Zinc	ug/L	<20.0	20.0	12/01/23 17:12	

LABORATORY CONTROL SAMPLE: 1683926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	25000	28900	116	80-120	
Antimony	ug/L	1000	1120	112	80-120	
Arsenic	ug/L	500	558	112	80-120	
Barium	ug/L	500	583	117	80-120	
Beryllium	ug/L	500	591	118	80-120	
Boron	ug/L	1000	1120	112	80-120	
Cadmium	ug/L	500	577	115	80-120	
Calcium	ug/L	25000	29300	117	80-120	
Chromium	ug/L	500	589	118	80-120	
Cobalt	ug/L	500	588	118	80-120	
Copper	ug/L	500	585	117	80-120	

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**QUALITY CONTROL DATA**

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

LABORATORY CONTROL SAMPLE: 1683926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12500	14900	119	80-120	
Lead	ug/L	500	574	115	80-120	
Magnesium	ug/L	25000	29200	117	80-120	
Manganese	ug/L	500	598	120	80-120	
Nickel	ug/L	500	590	118	80-120	
Potassium	ug/L	25000	28300	113	80-120	
Selenium	ug/L	500	551	110	80-120	
Silver	ug/L	250	281	112	80-120	
Sodium	ug/L	25000	29900	120	80-120	
Thallium	ug/L	250	285	114	80-120	
Tin	ug/L	1000	1150	115	80-120	
Vanadium	ug/L	500	580	116	80-120	
Zinc	ug/L	500	585	117	80-120	

MATRIX SPIKE SAMPLE: 1683928

Parameter	Units	70278595015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	12500	12700	102	75-125	
Antimony	ug/L	<60.0	1000	978	98	75-125	
Arsenic	ug/L	<10.0	500	485	97	75-125	
Barium	ug/L	17.8J	500	520	100	75-125	
Beryllium	ug/L	<5.0	500	513	103	75-125	
Boron	ug/L	22.5J	1000	985	96	75-125	
Cadmium	ug/L	<2.5	500	501	100	75-125	
Calcium	ug/L	12100	12500	25200	105	75-125	
Chromium	ug/L	<10.0	500	508	101	75-125	
Cobalt	ug/L	<50.0	500	509	102	75-125	
Copper	ug/L	<25.0	500	509	101	75-125	
Iron	ug/L	<100	5000	5130	103	75-125	
Lead	ug/L	<5.0	500	502	100	75-125	
Magnesium	ug/L	5590	12500	18500	103	75-125	
Manganese	ug/L	<10.0	500	512	102	75-125	
Nickel	ug/L	18.8J	500	506	97	75-125	
Potassium	ug/L	1600J	12500	14500	103	75-125	
Selenium	ug/L	<10.0	500	485	97	75-125	
Silver	ug/L	<10.0	250	209	84	75-125	
Sodium	ug/L	29300	12500	43800	116	75-125	
Thallium	ug/L	<10.0	250	240	96	75-125	
Tin	ug/L	<50.0	1000	991	99	75-125	
Vanadium	ug/L	<50.0	500	500	100	75-125	
Zinc	ug/L	<20.0	500	507	101	75-125	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

SAMPLE DUPLICATE: 1683927

Parameter	Units	70278595015 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	<200		
Antimony	ug/L	<60.0	<60.0		
Arsenic	ug/L	<10.0	<10.0		
Barium	ug/L	17.8J	<200		
Beryllium	ug/L	<5.0	<5.0		
Boron	ug/L	22.5J	<50.0		
Cadmium	ug/L	<2.5	<2.5		
Calcium	ug/L	12100	12100	0	
Chromium	ug/L	<10.0	<10.0		
Cobalt	ug/L	<50.0	<50.0		
Copper	ug/L	<25.0	<25.0		
Iron	ug/L	<100	<100		
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	5590	5600	0	
Manganese	ug/L	<10.0	<10.0		
Nickel	ug/L	18.8J	<40.0		
Potassium	ug/L	1600J	<5000		
Selenium	ug/L	<10.0	<10.0		
Silver	ug/L	<10.0	<10.0		
Sodium	ug/L	29300	29400	0	
Thallium	ug/L	<10.0	<10.0		
Tin	ug/L	<50.0	<50.0		
Vanadium	ug/L	<50.0	<50.0		
Zinc	ug/L	<20.0	<20.0		

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

QC Batch: 330155 Analysis Method: EPA 120.1
QC Batch Method: EPA 120.1 Analysis Description: 120.1 Specific Conductance
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70278844001, 70278844002, 70278844003, 70278844004

METHOD BLANK: 1690645 Matrix: Water
Associated Lab Samples: 70278844001, 70278844002, 70278844003, 70278844004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	<1.0	1.0	12/08/23 12:47	

LABORATORY CONTROL SAMPLE: 1690646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	718	717	100	85-115	

SAMPLE DUPLICATE: 1690647

Parameter	Units	70278657007 Result	Dup Result	RPD	Qualifiers
Specific Conductance	umhos/cm	57.8	58.2	1	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

QC Batch:	329046	Analysis Method:	EPA 180.1
QC Batch Method:	EPA 180.1	Analysis Description:	180.1 Turbidity
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70278844001, 70278844002, 70278844003, 70278844004

METHOD BLANK: 1683853 Matrix: Water
Associated Lab Samples: 70278844001, 70278844002, 70278844003, 70278844004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Turbidity	NTU	<1.0	1.0	11/28/23 22:33	

LABORATORY CONTROL SAMPLE: 1683854

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	10	10.0	100	90-110	

SAMPLE DUPLICATE: 1683855

Parameter	Units	70278844001 Result	Dup Result	RPD	Qualifiers
Turbidity	NTU	3.0	2.9	3	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

QC Batch: 329821 Analysis Method: SM22 2320B
QC Batch Method: SM22 2320B Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70278844001, 70278844002, 70278844003, 70278844004

METHOD BLANK: 1688702 Matrix: Water
Associated Lab Samples: 70278844001, 70278844002, 70278844003, 70278844004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	<1.0	1.0	12/06/23 08:58	

LABORATORY CONTROL SAMPLE: 1688703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	25	23.9	96	85-115	

MATRIX SPIKE SAMPLE: 1688705

Parameter	Units	70278595015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	28.7	50	78.0	99	75-125	

SAMPLE DUPLICATE: 1688704

Parameter	Units	70278595015 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	28.7	28.9	1	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

QC Batch: 329266

Analysis Method: SM22 2540C

QC Batch Method: SM22 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70278844003, 70278844004

METHOD BLANK: 1685119

Matrix: Water

Associated Lab Samples: 70278844003, 70278844004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	11/30/23 16:25	

LABORATORY CONTROL SAMPLE: 1685120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	488	98	85-115	

MATRIX SPIKE SAMPLE: 1685124

Parameter	Units	70278595015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	161	300	480	106	75-125	

MATRIX SPIKE SAMPLE: 1685340

Parameter	Units	70278773001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	248	600	840	99	75-125	

SAMPLE DUPLICATE: 1685123

Parameter	Units	70278595015 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	161	173	7	D6

SAMPLE DUPLICATE: 1685339

Parameter	Units	70278773001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	248	210	17	D6

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

QC Batch:	329343	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70278844001, 70278844002, 70278844003, 70278844004

METHOD BLANK: 1685586 Matrix: Water

Associated Lab Samples: 70278844001, 70278844002, 70278844003, 70278844004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<10.0	10.0	12/01/23 07:16	

LABORATORY CONTROL SAMPLE: 1685587

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	512	102	90-110	

MATRIX SPIKE SAMPLE: 1685588

Parameter	Units	70279029001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50.7	1000	1040	99	90-110	

MATRIX SPIKE SAMPLE: 1685590

Parameter	Units	70278595015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	14.0	1000	1030	102	90-110	

SAMPLE DUPLICATE: 1685589

Parameter	Units	70279029001 Result	Dup Result	RPD	Qualifiers
Chemical Oxygen Demand	mg/L	50.7	50.7	0	

SAMPLE DUPLICATE: 1685591

Parameter	Units	70278595015 Result	Dup Result	RPD	Qualifiers
Chemical Oxygen Demand	mg/L	14.0	16.2	14	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

QC Batch: 329111 Analysis Method: SM22 5210B
QC Batch Method: SM22 5210B Analysis Description: 5210B BOD, 5 day
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70278844001, 70278844002, 70278844003, 70278844004

METHOD BLANK: 1684110 Matrix: Water
Associated Lab Samples: 70278844001, 70278844002, 70278844003, 70278844004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	<1.0	1.0	12/04/23 09:18	

LABORATORY CONTROL SAMPLE: 1684111

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	186	94	84.5-115.4	

SAMPLE DUPLICATE: 1684112

Parameter	Units	70278928001 Result	Dup Result	RPD	Qualifiers
BOD, 5 day	mg/L	111	108	3	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

QC Batch:	330050	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70278844001, 70278844002, 70278844003, 70278844004

METHOD BLANK: 1689973

Matrix: Water

Associated Lab Samples: 70278844001, 70278844002, 70278844003, 70278844004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	<0.50	0.50	12/07/23 23:53	
Chloride	mg/L	<2.0	2.0	12/07/23 23:53	
Sulfate	mg/L	<5.0	5.0	12/07/23 23:53	

LABORATORY CONTROL SAMPLE: 1689974

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	1	1.0	103	90-110	
Chloride	mg/L	10	10.1	101	90-110	
Sulfate	mg/L	10	10.1	101	90-110	

MATRIX SPIKE SAMPLE: 1689977

Parameter	Units	70278645001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	<0.50	1	1.1	110	90-110	
Chloride	mg/L	3.3	10	13.3	100	90-110	
Sulfate	mg/L	<5.0	10	13.3	97	90-110	

MATRIX SPIKE SAMPLE: 1689979

Parameter	Units	70279183001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	<0.50	1	0.78	78	90-110	M1
Chloride	mg/L	13.6	10	23.2	97	90-110	
Sulfate	mg/L	10.3	10	20.0	97	90-110	

SAMPLE DUPLICATE: 1689978

Parameter	Units	70278645001 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	<0.50	<0.50		
Chloride	mg/L	3.3	3.3	1	
Sulfate	mg/L	<5.0	<5.0		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

SAMPLE DUPLICATE: 1689980

Parameter	Units	70279183001 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	<0.50	<0.50		
Chloride	mg/L	13.6	13.5	0	
Sulfate	mg/L	10.3	10.4	1	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

QC Batch:	330133	Analysis Method:	EPA 351.2
QC Batch Method:	EPA 351.2	Analysis Description:	351.2 TKN
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70278844001, 70278844002, 70278844003, 70278844004

METHOD BLANK: 1690580 Matrix: Water

Associated Lab Samples: 70278844001, 70278844002, 70278844003, 70278844004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.094	0.094	12/08/23 15:58	

LABORATORY CONTROL SAMPLE: 1690581

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	4.2	105	90-110	

MATRIX SPIKE SAMPLE: 1690582

Parameter	Units	70278595001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	60.3	20	81.5	106	90-110	

MATRIX SPIKE SAMPLE: 1690584

Parameter	Units	70278844001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	4	4.1	103	90-110	

SAMPLE DUPLICATE: 1690583

Parameter	Units	70278595001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	60.3	60.5	0	

SAMPLE DUPLICATE: 1690585

Parameter	Units	70278844001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	<0.10		

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

QC Batch: 329512 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70278844001, 70278844002, 70278844003, 70278844004

METHOD BLANK: 1686915 Matrix: Water
Associated Lab Samples: 70278844001, 70278844002, 70278844003, 70278844004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.037	0.037	12/04/23 13:48	

LABORATORY CONTROL SAMPLE: 1686916

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	0.98	98	90-110	

MATRIX SPIKE SAMPLE: 1686917

Parameter	Units	70278595026 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.47	0.5	0.94	95	90-110	

MATRIX SPIKE SAMPLE: 1686919

Parameter	Units	70279260001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.5	0.50	94	90-110	

SAMPLE DUPLICATE: 1686918

Parameter	Units	70278595026 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.47	0.48	2	

SAMPLE DUPLICATE: 1686920

Parameter	Units	70279260001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	<0.050		

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

QC Batch: 329995

Analysis Method: EPA 420.1

QC Batch Method: EPA 420.1

Analysis Description: 420.1 Phenolics Macro

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70278844001, 70278844002, 70278844003, 70278844004

METHOD BLANK: 1689707

Matrix: Water

Associated Lab Samples: 70278844001, 70278844002, 70278844003, 70278844004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	<10.0	10.0	12/07/23 16:41	

LABORATORY CONTROL SAMPLE: 1689708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	100	93.2	93	90-110	

MATRIX SPIKE SAMPLE: 1689709

Parameter	Units	70278596007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	21.3	50	169	296	75-125	M1

SAMPLE DUPLICATE: 1689710

Parameter	Units	70278596007 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	21.3	10.9	65	D6

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

QC Batch: 329872 Analysis Method: SM22 4500 NH3 H
QC Batch Method: SM22 4500 NH3 H Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70278844001, 70278844002, 70278844003, 70278844004

METHOD BLANK: 1688877 Matrix: Water
Associated Lab Samples: 70278844001, 70278844002, 70278844003, 70278844004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.050	0.050	12/06/23 14:44	

LABORATORY CONTROL SAMPLE: 1688878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	102	90-110	

MATRIX SPIKE SAMPLE: 1688879

Parameter	Units	70279205001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	35.3	10	42.2	69	75-125	M1

SAMPLE DUPLICATE: 1688880

Parameter	Units	70279205001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	35.3	35.6	1	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

QC Batch:	330076	Analysis Method:	EPA 9060A
QC Batch Method:	EPA 9060A	Analysis Description:	9060 TOC
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70278844001, 70278844002, 70278844003, 70278844004

METHOD BLANK: 1690096 Matrix: Water

Associated Lab Samples: 70278844001, 70278844002, 70278844003, 70278844004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<0.50	0.50	12/07/23 17:16	
Total Organic Carbon	mg/L	<0.50	0.50	12/07/23 17:16	
Total Organic Carbon	mg/L	<0.50	0.50	12/07/23 17:16	
Total Organic Carbon	mg/L	<0.50	0.50	12/07/23 17:16	
Total Organic Carbon	mg/L	<0.50	0.50	12/07/23 17:16	

LABORATORY CONTROL SAMPLE: 1690097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	10	10.0	100	85-115	
Total Organic Carbon	mg/L	10	9.1	91	85-115	
Total Organic Carbon	mg/L	10	9.5	95	85-115	
Total Organic Carbon	mg/L	10	11.1	111	85-115	
Total Organic Carbon	mg/L	10	10.3	103	85-115	

MATRIX SPIKE SAMPLE: 1690099

Parameter	Units	70278983011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	7.8	10	17.7	99	75-125	
Total Organic Carbon	mg/L	7.4	10	18.2	108	75-125	
Total Organic Carbon	mg/L	7.5	10	14.9	74	75-125	M1
Total Organic Carbon	mg/L	9.8	10	19.2	94	75-125	
Total Organic Carbon	mg/L	6.4	10	18.4	121	75-125	

SAMPLE DUPLICATE: 1690098

Parameter	Units	70278983011 Result	Dup Result	RPD	Qualifiers
Mean Total Organic Carbon	mg/L	7.8	7.7	1	
Total Organic Carbon	mg/L	7.4	10.1	30	D6
Total Organic Carbon	mg/L	7.5	7.2	4	
Total Organic Carbon	mg/L	6.4	7.1	11	
Total Organic Carbon	mg/L	9.8	6.4	41	D6

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QUALIFIERS

Project: OPERATIONAL WELLS LEA. 11/27
Pace Project No.: 70278844

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R6 The RPD between valid sample dilutions exceeded 30%.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70278844001	LEACHATE 11S		328954		
70278844002	LEACHATE 11P		328954		
70278844003	LEACHATE 12S		328954		
70278844004	LEACHATE 12P		328954		
70278844001	LEACHATE 11S	SM22 2340B	329572		
70278844002	LEACHATE 11P	SM22 2340B	329572		
70278844003	LEACHATE 12S	SM22 2340B	329572		
70278844004	LEACHATE 12P	SM22 2340B	329572		
70278844001	LEACHATE 11S	EPA 3005A	329068	EPA 6010C	329097
70278844002	LEACHATE 11P	EPA 3005A	329068	EPA 6010C	329097
70278844003	LEACHATE 12S	EPA 3005A	329068	EPA 6010C	329097
70278844004	LEACHATE 12P	EPA 3005A	329068	EPA 6010C	329097
70278844001	LEACHATE 11S	EPA 120.1	330155		
70278844002	LEACHATE 11P	EPA 120.1	330155		
70278844003	LEACHATE 12S	EPA 120.1	330155		
70278844004	LEACHATE 12P	EPA 120.1	330155		
70278844001	LEACHATE 11S	EPA 180.1	329046		
70278844002	LEACHATE 11P	EPA 180.1	329046		
70278844003	LEACHATE 12S	EPA 180.1	329046		
70278844004	LEACHATE 12P	EPA 180.1	329046		
70278844001	LEACHATE 11S	SM22 2320B	329821		
70278844002	LEACHATE 11P	SM22 2320B	329821		
70278844003	LEACHATE 12S	SM22 2320B	329821		
70278844004	LEACHATE 12P	SM22 2320B	329821		
70278844003	LEACHATE 12S	SM22 2540C	329266		
70278844004	LEACHATE 12P	SM22 2540C	329266		
70278844001	LEACHATE 11S	EPA 410.4	329343	EPA 410.4	329346
70278844002	LEACHATE 11P	EPA 410.4	329343	EPA 410.4	329346
70278844003	LEACHATE 12S	EPA 410.4	329343	EPA 410.4	329346
70278844004	LEACHATE 12P	EPA 410.4	329343	EPA 410.4	329346
70278844001	LEACHATE 11S	SM22 5210B	329111	SM22 5210B	329884
70278844002	LEACHATE 11P	SM22 5210B	329111	SM22 5210B	329884
70278844003	LEACHATE 12S	SM22 5210B	329111	SM22 5210B	329884
70278844004	LEACHATE 12P	SM22 5210B	329111	SM22 5210B	329884
70278844001	LEACHATE 11S	EPA 300.0	330050		
70278844002	LEACHATE 11P	EPA 300.0	330050		
70278844003	LEACHATE 12S	EPA 300.0	330050		
70278844004	LEACHATE 12P	EPA 300.0	330050		
70278844001	LEACHATE 11S	EPA 351.2	330133	EPA 351.2	330137
70278844002	LEACHATE 11P	EPA 351.2	330133	EPA 351.2	330137
70278844003	LEACHATE 12S	EPA 351.2	330133	EPA 351.2	330137
70278844004	LEACHATE 12P	EPA 351.2	330133	EPA 351.2	330137
70278844001	LEACHATE 11S	EPA 353.2	329512		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OPERATIONAL WELLS LEA. 11/27

Pace Project No.: 70278844

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70278844002	LEACHATE 11P	EPA 353.2	329512		
70278844003	LEACHATE 12S	EPA 353.2	329512		
70278844004	LEACHATE 12P	EPA 353.2	329512		
70278844001	LEACHATE 11S	EPA 420.1	329995	EPA 420.1	330061
70278844002	LEACHATE 11P	EPA 420.1	329995	EPA 420.1	330061
70278844003	LEACHATE 12S	EPA 420.1	329995	EPA 420.1	330061
70278844004	LEACHATE 12P	EPA 420.1	329995	EPA 420.1	330061
70278844001	LEACHATE 11S	SM22 4500 NH3 H	329872		
70278844002	LEACHATE 11P	SM22 4500 NH3 H	329872		
70278844003	LEACHATE 12S	SM22 4500 NH3 H	329872		
70278844004	LEACHATE 12P	SM22 4500 NH3 H	329872		
70278844001	LEACHATE 11S	EPA 9060A	330076		
70278844002	LEACHATE 11P	EPA 9060A	330076		
70278844003	LEACHATE 12S	EPA 9060A	330076		
70278844004	LEACHATE 12P	EPA 9060A	330076		

REPORT OF LABORATORY ANALYSIS

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LAB WO#: 70278844

CHAIN-OF-CUSTODY Analytical Request Document

Order Number or MTJL Log-

Company: Al Turi Landfill
 Address: 73 Hartley Road Goshen, NY 10924
 Billing Information: TJ Millo, 306 Fayette Avenue Reality, 566 Westchester Ave. Rye Brook, NY 10573

SE ONLY

Container Preservative Type **

Lab Project Manager: *John Doe*

KMM

Report To: TJ Millo
 Email To:
 Copy To:
 Customer Project Name/Number: Operational Wells

Site Collection Info/Address:
 State NY County/City Time Zone Collected EST

Phone: 914-907-2385
 Fax:
 Collected by (print): *DATE SUBMIT PAGE*
 Collected by (signature): *MAT BAKER (PAGE)*

Site/Facility ID #
 Purchase Order #
 Quote #
 Turnaround Date Required: Standard

Compliance Monitoring?
 DW PWS ID #:
 DW Location Code #:
 Immediately Packed on Ice?
 Field Filtered (if applicable):
 Analysis:

RUSH:
 Same Day Next Day
 Day 3 Day 4 Day 5 Day
 (Expedite Charges Apply)

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID

Compl/Grab

Collected (or Composite Start)

Date Time

Composite End

Date Time

Res Cl

of Cans

Leachate 11S

Leachate 11P

Leachate 12S

Leachate 12P

Customer Remarks/ Special Conditions/ Possible Hazards: Part 360 Baseline 1995 Modified ASP A

Type of Ice Used: Wet [] Blue [] Dry [] None []

Packing Material Used: *BB 72600*

Radchem sample(s) screened: (*<500 cpm*): [] Y [] N [] A

Samples received via: FEDEX [] UPS [] Client [] Courier [] Express Courier []

Received by/Company: (Signature)

Date/Time: *11/27/23 16:00*

Relinquished by/Company: (Signature)

Date/Time: *11/27/23 16:00*

Relinquished by/Company: (Signature)

Date/Time: *11/28 8:00*

Relinquished by/Company: (Signature)

Date/Time: *11/28 8:00*

Relinquished by/Company: (Signature)

Date/Time: *11/28 8:00*

Relinquished by/Company: (Signature)

Date/Time: *11/28 8:00*

Relinquished by/Company: (Signature)

Date/Time: *11/28 8:00*

Relinquished by/Company: (Signature)

Date/Time: *11/28 8:00*

Relinquished by/Company: (Signature)

Date/Time: *11/28 8:00*

Analyses

LAB Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA

Custody Signatures Present Y N NA

Collector Signature Present Y N NA

Bottles Intact Y N NA

Correct Bottles Y N NA

Sufficient Volume Y N NA

VOA - Headspace Acceptable Y N NA

USDA Regulated Solids Y N NA

Samples in holding time Y N NA

Residual Chlorine Present Y N NA

GI Strips: Y N NA

Sample pH Acceptable Y N NA

pH Strips: *2.5-8.0* Y N NA

Sulfide Present Y N NA

Lead Acetate Strips: Y N NA

LAB USE ONLY: ↓

Lab Sample # / Comments

ALAKALINITY

TOTAL PHENOLS

TOC

NH₃, TKN, COD

TDS, CL, NO₃, SO₄, BROMIDE, BOD₅

T-AS, CA, CD, FE, MN, MG, PB, K, NA+CALC

PH, EH, TEMP, TURBIDITY, CONDUCTIVITY

LAB Sample Temperature Info:

Temp Blank received: Y N NA

Therm ID #: *TH211*

Cooler 1 Temp Upon Receipt *1.0* oC

Cooler 1 Therm Corr. Factor *10.1* oC

Cooler 1 Corrected Temp *1.1* oC

Comments:

Trip Blank Received: Y N N/A

HCL MeOH TSP Other

NonConformance(s)

YES / NO

Page of

F:\ALL-CUSTOMER\00_10512016

WO#: 70278844

PM: KMM

Due Date: 12/12/23

CLIENT: ALTURI

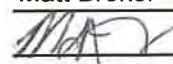
PACE Analytical Services, Inc.

Tap Water / Surface Water / Wastewater Field Log

Client: Al Turi Landfill

Sampler (print): Matt Broker

Project: Operational Wells

Signature: 

Date: 11/27/23

Location	Leachate 11S	TIME SAMPLED	12:00	PAGE ID. NO.
SWL	N/A Feet	WEATHER CONDITION:	7C cloudy	
TEMPERATURE	9.5 c			
PH	7.3 STD UNITS	APPEARANCE / OBSERVATIONS clear w/ particles no odor		
SPEC. COND.	860.2 uS			
TURBIDITY	6.53 NTU			
EH	149 mV	IF TESTING FOR CYANIDE: IF TESTING FOR PHENOLICS:		
SULFITE	N/A MG/L	CHLORINE RES.	n/a	CHLORINE RES. n/a
DIS.OXYGEN	N/A MG/L	SULFIDE		

Location	Leachate 11P	TIME SAMPLED	12:10	PAGE ID. NO.
SWL	N/A Feet	WEATHER CONDITION:	7C cloudy	
TEMPERATURE	8.2 c			
PH	7.01 STD UNITS	APPEARANCE / OBSERVATIONS cloudy no odor		
SPEC. COND.	570.6 uS			
TURBIDITY	42.7 NTU			
EH	175 mV	IF TESTING FOR CYANIDE: IF TESTING FOR PHENOLICS:		
SULFITE	N/A MG/L	CHLORINE RES.	n/a	CHLORINE RES. n/a
DIS.OXYGEN	N/A MG/L	SULFIDE		

Location	Leachate 12S	TIME SAMPLED	11:30	PAGE ID. NO.
FLOW	N/A gallons	WEATHER CONDITION:	7C cloudy	
TEMPERATURE	11.1 c			
PH	7.22 STD UNITS	APPEARANCE / OBSERVATIONS clear no odor		
SPEC. COND.	595.1 UMHOS/CM			
TURBIDITY	2.82 NTU			
EH	175 mV	IF TESTING FOR CYANIDE: IF TESTING FOR PHENOLICS:		
SULFITE	N/A MG/L	CHLORINE RES.	n/a	CHLORINE RES. n/a
DIS.OXYGEN	N/A MG/L	SULFIDE		

Location	Leachate 12P	TIME SAMPLED	11:45	PAGE ID. NO.
FLOW	N/A gallons	WEATHER CONDITION:	7C cloudy	
TEMPERATURE	12.6 c			
PH	6.7 STD UNITS	APPEARANCE / OBSERVATIONS cloudy w/ no odor		
SPEC. COND.	3210 uS			
TURBIDITY	24.2 NTU			
EH	-4 mV	IF TESTING FOR CYANIDE: IF TESTING FOR PHENOLICS:		
SULFITE	N/A MG/L	CHLORINE RES.	n/a	CHLORINE RES. n/a
DIS.OXYGEN	N/A MG/L	SULFIDE		

Page



December 27, 2023

TJ Milo
Al Turi Landfill
73 Hartley Road
Goshen, NY 10924

RE: Project: CONDENSATE 12/13
Pace Project No.: 70280876

Dear TJ Milo:

Enclosed are the analytical results for sample(s) received by the laboratory on December 13, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Kimberley Mack".

Kimberley M. Mack
kimberley.mack@pacelabs.com
516-370-6052
Project Manager

Enclosures

cc: Marc Colantuono
Diane Conroy, Tetra Tech



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CONDENSATE 12/13

Pace Project No.: 70280876

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CONDENSATE 12/13

Pace Project No.: 70280876

Sample: CONDENSATE		Lab ID: 70280876001		Collected: 12/13/23 12:30		Received: 12/13/23 17:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	62600	ug/L	16600	20		12/15/23 17:03			
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Aluminum	22400	ug/L	4000	20	12/15/23 07:36	12/15/23 17:03	7429-90-5		
Antimony	3620	ug/L	1200	20	12/15/23 07:36	12/15/23 17:03	7440-36-0		
Arsenic	950	ug/L	200	20	12/15/23 07:36	12/15/23 17:03	7440-38-2		
Barium	<4000	ug/L	4000	20	12/15/23 07:36	12/15/23 17:03	7440-39-3		
Beryllium	<100	ug/L	100	20	12/15/23 07:36	12/15/23 17:03	7440-41-7		
Boron	<1000	ug/L	1000	20	12/15/23 07:36	12/15/23 17:03	7440-42-8		
Cadmium	<50.0	ug/L	50.0	20	12/15/23 07:36	12/15/23 17:03	7440-43-9		
Calcium	19000	ug/L	4000	20	12/15/23 07:36	12/15/23 17:03	7440-70-2		
Chromium	260000	ug/L	200	20	12/15/23 07:36	12/15/23 17:03	7440-47-3		
Cobalt	2380	ug/L	1000	20	12/15/23 07:36	12/15/23 17:03	7440-48-4		
Copper	20200	ug/L	500	20	12/15/23 07:36	12/15/23 17:03	7440-50-8		
Iron	1680000	ug/L	2000	20	12/15/23 07:36	12/15/23 17:03	7439-89-6		
Lead	794	ug/L	100	20	12/15/23 07:36	12/15/23 17:03	7439-92-1		
Magnesium	<4000	ug/L	4000	20	12/15/23 07:36	12/15/23 17:03	7439-95-4		
Manganese	24200	ug/L	200	20	12/15/23 07:36	12/15/23 17:03	7439-96-5		
Nickel	65600	ug/L	800	20	12/15/23 07:36	12/15/23 17:03	7440-02-0		
Potassium	<100000	ug/L	100000	20	12/15/23 07:36	12/15/23 17:03	7440-09-7		
Selenium	<200	ug/L	200	20	12/15/23 07:36	12/15/23 17:03	7782-49-2		
Silver	<200	ug/L	200	20	12/15/23 07:36	12/15/23 17:03	7440-22-4		
Sodium	<100000	ug/L	100000	20	12/15/23 07:36	12/15/23 17:03	7440-23-5		
Thallium	<200	ug/L	200	20	12/15/23 07:36	12/15/23 17:03	7440-28-0		
Tin	<1000	ug/L	1000	20	12/15/23 07:36	12/15/23 17:03	7440-31-5		
Vanadium	<1000	ug/L	1000	20	12/15/23 07:36	12/15/23 17:03	7440-62-2		
Zinc	32400	ug/L	400	20	12/15/23 07:36	12/15/23 17:03	7440-66-6		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Melville							
Mercury	94.3	ug/L	4.0	20	12/15/23 08:26	12/15/23 14:11	7439-97-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1,2-Tetrachloroethane	<5.0	ug/L	5.0	1		12/15/23 22:21	630-20-6		
1,1,1-Trichloroethane	<5.0	ug/L	5.0	1		12/15/23 22:21	71-55-6		
1,1,2,2-Tetrachloroethane	<5.0	ug/L	5.0	1		12/15/23 22:21	79-34-5		
1,1,2-Trichloroethane	<5.0	ug/L	5.0	1		12/15/23 22:21	79-00-5	IC	
1,1-Dichloroethane	<5.0	ug/L	5.0	1		12/15/23 22:21	75-34-3		
1,1-Dichloroethene	<5.0	ug/L	5.0	1		12/15/23 22:21	75-35-4		
1,1-Dichloropropene	<5.0	ug/L	5.0	1		12/15/23 22:21	563-58-6		
1,2,3-Trichloropropane	<5.0	ug/L	5.0	1		12/15/23 22:21	96-18-4		
1,2-Dibromo-3-chloropropane	<5.0	ug/L	5.0	1		12/15/23 22:21	96-12-8		
1,2-Dibromoethane (EDB)	<5.0	ug/L	5.0	1		12/15/23 22:21	106-93-4		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CONDENSATE 12/13

Pace Project No.: 70280876

Sample: CONDENSATE		Lab ID: 70280876001	Collected: 12/13/23 12:30	Received: 12/13/23 17:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,2-Dichlorobenzene	5.0	ug/L	5.0	1		12/15/23 22:21	95-50-1	
1,2-Dichloroethane	<5.0	ug/L	5.0	1		12/15/23 22:21	107-06-2	
1,2-Dichloropropane	<5.0	ug/L	5.0	1		12/15/23 22:21	78-87-5	
1,3-Dichlorobenzene	<5.0	ug/L	5.0	1		12/15/23 22:21	541-73-1	
1,3-Dichloropropane	<5.0	ug/L	5.0	1		12/15/23 22:21	142-28-9	
1,4-Dichlorobenzene	17.8	ug/L	5.0	1		12/15/23 22:21	106-46-7	M1
2,2-Dichloropropane	<5.0	ug/L	5.0	1		12/15/23 22:21	594-20-7	
2-Butanone (MEK)	5.9	ug/L	5.0	1		12/15/23 22:21	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		12/15/23 22:21	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/15/23 22:21	108-10-1	
Acetone	27.1	ug/L	5.0	1		12/15/23 22:21	67-64-1	IL,M1
Acetonitrile	<5.0	ug/L	5.0	1		12/15/23 22:21	75-05-8	
Acrolein	<5.0	ug/L	5.0	1		12/15/23 22:21	107-02-8	M1
Acrylonitrile	<5.0	ug/L	5.0	1		12/15/23 22:21	107-13-1	
Allyl chloride	<5.0	ug/L	5.0	1		12/15/23 22:21	107-05-1	
Benzene	5.0	ug/L	5.0	1		12/15/23 22:21	71-43-2	
Bromochloromethane	<5.0	ug/L	5.0	1		12/15/23 22:21	74-97-5	
Bromodichloromethane	<5.0	ug/L	5.0	1		12/15/23 22:21	75-27-4	
Bromoform	<5.0	ug/L	5.0	1		12/15/23 22:21	75-25-2	
Bromomethane	<5.0	ug/L	5.0	1		12/15/23 22:21	74-83-9	IC
Carbon disulfide	6.6	ug/L	5.0	1		12/15/23 22:21	75-15-0	
Carbon tetrachloride	<5.0	ug/L	5.0	1		12/15/23 22:21	56-23-5	
Chlorobenzene	5.0	ug/L	5.0	1		12/15/23 22:21	108-90-7	
Chloroethane	<5.0	ug/L	5.0	1		12/15/23 22:21	75-00-3	
Chloroform	<5.0	ug/L	5.0	1		12/15/23 22:21	67-66-3	
Chloromethane	<5.0	ug/L	5.0	1		12/15/23 22:21	74-87-3	v3
Chloroprene	<5.0	ug/L	5.0	1		12/15/23 22:21	126-99-8	
Dibromochloromethane	<5.0	ug/L	5.0	1		12/15/23 22:21	124-48-1	
Dibromomethane	<5.0	ug/L	5.0	1		12/15/23 22:21	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	5.0	1		12/15/23 22:21	75-71-8	
Ethyl methacrylate	<5.0	ug/L	5.0	1		12/15/23 22:21	97-63-2	
Ethylbenzene	12.6	ug/L	5.0	1		12/15/23 22:21	100-41-4	
Iodomethane	<5.0	ug/L	5.0	1		12/15/23 22:21	74-88-4	
Isobutanol	<25.0	ug/L	25.0	1		12/15/23 22:21	78-83-1	R1
Methacrylonitrile	<5.0	ug/L	5.0	1		12/15/23 22:21	126-98-7	
Methyl methacrylate	<5.0	ug/L	5.0	1		12/15/23 22:21	80-62-6	
Methylene Chloride	<5.0	ug/L	5.0	1		12/15/23 22:21	75-09-2	
Propionitrile	<5.0	ug/L	5.0	1		12/15/23 22:21	107-12-0	
Styrene	<5.0	ug/L	5.0	1		12/15/23 22:21	100-42-5	
Tetrachloroethene	<5.0	ug/L	5.0	1		12/15/23 22:21	127-18-4	
Toluene	19.5	ug/L	5.0	1		12/15/23 22:21	108-88-3	M1
Trichloroethene	<5.0	ug/L	5.0	1		12/15/23 22:21	79-01-6	
Trichlorofluoromethane	<5.0	ug/L	5.0	1		12/15/23 22:21	75-69-4	
Vinyl acetate	<5.0	ug/L	5.0	1		12/15/23 22:21	108-05-4	
Vinyl chloride	<5.0	ug/L	5.0	1		12/15/23 22:21	75-01-4	
Xylene (Total)	24.0	ug/L	5.0	1		12/15/23 22:21	1330-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CONDENSATE 12/13

Pace Project No.: 70280876

Sample: CONDENSATE		Lab ID: 70280876001		Collected: 12/13/23 12:30		Received: 12/13/23 17:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
cis-1,2-Dichloroethene	<5.0	ug/L	5.0	1		12/15/23 22:21	156-59-2		
cis-1,3-Dichloropropene	<5.0	ug/L	5.0	1		12/15/23 22:21	10061-01-5		
trans-1,2-Dichloroethene	<5.0	ug/L	5.0	1		12/15/23 22:21	156-60-5		
trans-1,3-Dichloropropene	<5.0	ug/L	5.0	1		12/15/23 22:21	10061-02-6		
trans-1,4-Dichloro-2-butene	<5.0	ug/L	5.0	1		12/15/23 22:21	110-57-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	96	%	80-120	1		12/15/23 22:21	17060-07-0		
4-Bromofluorobenzene (S)	104	%	73-122	1		12/15/23 22:21	460-00-4		
Toluene-d8 (S)	98	%	75-122	1		12/15/23 22:21	2037-26-5		
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville							
Turbidity	450	NTU	20.0	20		12/14/23 15:40			
2120B W Apparent Color		Analytical Method: SM22 2120B Pace Analytical Services - Melville							
Apparent Color	600	units	100	20		12/14/23 15:45			
pH	1.3	Std. Units	0.10	20		12/14/23 15:45			
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	<1.0	mg/L	1.0	1		12/26/23 14:29			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	11700	mg/L	500	1		12/19/23 16:30			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	1230	mg/L	200	1	12/22/23 05:02	12/22/23 07:27			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<200	mg/L	200	100	12/15/23 11:20	12/20/23 09:47			
7196 Chromium, Hexavalent		Analytical Method: EPA 7196A Pace Analytical Services - Melville							
Chromium, Hexavalent	<0.20	mg/L	0.20	10		12/13/23 19:48	18540-29-9		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<25.0	mg/L	25.0	50		12/20/23 17:40	24959-67-9		
Chloride	<100	mg/L	100	50		12/20/23 17:40	16887-00-6		
Sulfate	<250	mg/L	250	50		12/20/23 17:40	14808-79-8		

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ANALYTICAL RESULTS

Project: CONDENSATE 12/13

Pace Project No.: 70280876

Sample: CONDENSATE	Lab ID: 70280876001	Collected: 12/13/23 12:30	Received: 12/13/23 17:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	167	mg/L	12.5	5	12/22/23 03:41	12/22/23 13:24	7727-37-9	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	841	ug/L	100	10	12/19/23 11:30	12/19/23 16:06		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	150	mg/L	20.0	200		12/26/23 11:34	7664-41-7	
9060A TOC as NPOC	Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	264	mg/L	4.0	4		12/22/23 20:55	7440-44-0	L2
Total Organic Carbon	338	mg/L	4.0	4		12/22/23 20:55	7440-44-0	
Total Organic Carbon	178	mg/L	4.0	4		12/22/23 20:55	7440-44-0	
Total Organic Carbon	89.9	mg/L	4.0	4		12/22/23 20:55	7440-44-0	
Mean Total Organic Carbon	109	mg/L	4.0	4		12/22/23 20:55	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CONDENSATE 12/13

Pace Project No.: 70280876

QC Batch: 330946

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70280876001

METHOD BLANK: 1695360

Matrix: Water

Associated Lab Samples: 70280876001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	12/15/23 13:16	

LABORATORY CONTROL SAMPLE: 1695361

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	0.97	97	80-120	

MATRIX SPIKE SAMPLE: 1695362

Parameter	Units	70280860002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	0.86	85	75-125	

SAMPLE DUPLICATE: 1695363

Parameter	Units	70280860002 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: CONDENSATE 12/13

Pace Project No.: 70280876

QC Batch: 330940

Analysis Method: EPA 6010C

QC Batch Method: EPA 3005A

Analysis Description: 6010 MET Water

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70280876001

METHOD BLANK: 1695347

Matrix: Water

Associated Lab Samples: 70280876001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	12/15/23 16:27	
Antimony	ug/L	<60.0	60.0	12/15/23 16:27	
Arsenic	ug/L	<10.0	10.0	12/15/23 16:27	
Barium	ug/L	<200	200	12/15/23 16:27	
Beryllium	ug/L	<5.0	5.0	12/15/23 16:27	
Boron	ug/L	<50.0	50.0	12/15/23 16:27	
Cadmium	ug/L	<2.5	2.5	12/15/23 16:27	
Calcium	ug/L	<200	200	12/15/23 16:27	
Chromium	ug/L	<10.0	10.0	12/15/23 16:27	
Cobalt	ug/L	<50.0	50.0	12/15/23 16:27	
Copper	ug/L	<25.0	25.0	12/15/23 16:27	
Iron	ug/L	<100	100	12/15/23 16:27	
Lead	ug/L	<5.0	5.0	12/15/23 16:27	
Magnesium	ug/L	<200	200	12/15/23 16:27	
Manganese	ug/L	<10.0	10.0	12/15/23 16:27	
Nickel	ug/L	<40.0	40.0	12/15/23 16:27	
Potassium	ug/L	<5000	5000	12/15/23 16:27	
Selenium	ug/L	<10.0	10.0	12/15/23 16:27	
Silver	ug/L	<10.0	10.0	12/15/23 16:27	
Sodium	ug/L	<5000	5000	12/15/23 16:27	
Thallium	ug/L	<10.0	10.0	12/15/23 16:27	
Tin	ug/L	<50.0	50.0	12/15/23 16:27	
Vanadium	ug/L	<50.0	50.0	12/15/23 16:27	
Zinc	ug/L	<20.0	20.0	12/15/23 16:27	

LABORATORY CONTROL SAMPLE: 1695348

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	25000	23500	94	80-120	
Antimony	ug/L	1000	935	94	80-120	
Arsenic	ug/L	500	460	92	80-120	
Barium	ug/L	500	473	95	80-120	
Beryllium	ug/L	500	479	96	80-120	
Boron	ug/L	1000	946	95	80-120	
Cadmium	ug/L	500	475	95	80-120	
Calcium	ug/L	25000	24300	97	80-120	
Chromium	ug/L	500	475	95	80-120	
Cobalt	ug/L	500	473	95	80-120	
Copper	ug/L	500	477	95	80-120	

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QUALITY CONTROL DATA

Project: CONDENSATE 12/13

Pace Project No.: 70280876

LABORATORY CONTROL SAMPLE: 1695348

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12500	11900	95	80-120	
Lead	ug/L	500	477	95	80-120	
Magnesium	ug/L	25000	23500	94	80-120	
Manganese	ug/L	500	478	96	80-120	
Nickel	ug/L	500	479	96	80-120	
Potassium	ug/L	25000	23900	96	80-120	
Selenium	ug/L	500	455	91	80-120	
Silver	ug/L	250	237	95	80-120	
Sodium	ug/L	25000	24100	96	80-120	
Thallium	ug/L	250	239	96	80-120	
Tin	ug/L	1000	944	94	80-120	
Vanadium	ug/L	500	475	95	80-120	
Zinc	ug/L	500	483	97	80-120	

MATRIX SPIKE SAMPLE: 1695350

Parameter	Units	70280844003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	12500	11800	94	75-125	
Antimony	ug/L	<60.0	1000	925	92	75-125	
Arsenic	ug/L	<10.0	500	456	90	75-125	
Barium	ug/L	<200	500	472	93	75-125	
Beryllium	ug/L	<5.0	500	479	96	75-125	
Boron	ug/L	196	1000	1130	93	75-125	
Cadmium	ug/L	<2.5	500	468	94	75-125	
Calcium	ug/L	9220	12500	20600	91	75-125	
Chromium	ug/L	<10.0	500	483	97	75-125	
Cobalt	ug/L	<50.0	500	468	94	75-125	
Copper	ug/L	<25.0	500	484	96	75-125	
Iron	ug/L	225	5000	5030	96	75-125	
Lead	ug/L	<5.0	500	473	95	75-125	
Magnesium	ug/L	3790	12500	15300	92	75-125	
Manganese	ug/L	21.1	500	490	94	75-125	
Nickel	ug/L	<40.0	500	462	90	75-125	
Potassium	ug/L	<5000	12500	14000	99	75-125	
Selenium	ug/L	14.4	500	451	87	75-125	
Silver	ug/L	<10.0	250	171	68	75-125	M1
Sodium	ug/L	45800	12500	54400	69	75-125	M1
Thallium	ug/L	<10.0	250	233	93	75-125	
Tin	ug/L	<50.0	1000	934	93	75-125	
Vanadium	ug/L	<50.0	500	479	94	75-125	
Zinc	ug/L	36.0	500	511	95	75-125	

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QUALITY CONTROL DATA

Project: CONDENSATE 12/13

Pace Project No.: 70280876

SAMPLE DUPLICATE: 1695349

Parameter	Units	70280844003 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	<200		
Antimony	ug/L	<60.0	<60.0		
Arsenic	ug/L	<10.0	<10.0		
Barium	ug/L	<200	<200		
Beryllium	ug/L	<5.0	<5.0		
Boron	ug/L	196	188	4	
Cadmium	ug/L	<2.5	<2.5		
Calcium	ug/L	9220	8770	5	
Chromium	ug/L	<10.0	<10.0		
Cobalt	ug/L	<50.0	<50.0		
Copper	ug/L	<25.0	<25.0		
Iron	ug/L	225	215	5	
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	3790	3630	4	
Manganese	ug/L	21.1	20.3	4	
Nickel	ug/L	<40.0	<40.0		
Potassium	ug/L	<5000	<5000		
Selenium	ug/L	14.4	<10.0		
Silver	ug/L	<10.0	<10.0		
Sodium	ug/L	45800	43400	5	
Thallium	ug/L	<10.0	<10.0		
Tin	ug/L	<50.0	<50.0		
Vanadium	ug/L	<50.0	<50.0		
Zinc	ug/L	36.0	34.3	5	

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QUALITY CONTROL DATA

Project: CONDENSATE 12/13

Pace Project No.: 70280876

QC Batch: 330998

Analysis Method: EPA 8260C/5030C

QC Batch Method: EPA 8260C/5030C

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70280876001

METHOD BLANK: 1695573

Matrix: Water

Associated Lab Samples: 70280876001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<5.0	5.0	12/15/23 12:30	
1,1,1-Trichloroethane	ug/L	<5.0	5.0	12/15/23 12:30	
1,1,2,2-Tetrachloroethane	ug/L	<5.0	5.0	12/15/23 12:30	
1,1,2-Trichloroethane	ug/L	<5.0	5.0	12/15/23 12:30	IC
1,1-Dichloroethane	ug/L	<5.0	5.0	12/15/23 12:30	
1,1-Dichloroethene	ug/L	<5.0	5.0	12/15/23 12:30	
1,1-Dichloropropene	ug/L	<5.0	5.0	12/15/23 12:30	
1,2,3-Trichloropropene	ug/L	<5.0	5.0	12/15/23 12:30	
1,2-Dibromo-3-chloropropane	ug/L	<5.0	5.0	12/15/23 12:30	
1,2-Dibromoethane (EDB)	ug/L	<5.0	5.0	12/15/23 12:30	
1,2-Dichlorobenzene	ug/L	<5.0	5.0	12/15/23 12:30	
1,2-Dichloroethane	ug/L	<5.0	5.0	12/15/23 12:30	
1,2-Dichloropropane	ug/L	<5.0	5.0	12/15/23 12:30	
1,3-Dichlorobenzene	ug/L	<5.0	5.0	12/15/23 12:30	
1,3-Dichloropropane	ug/L	<5.0	5.0	12/15/23 12:30	
1,4-Dichlorobenzene	ug/L	<5.0	5.0	12/15/23 12:30	
2,2-Dichloropropane	ug/L	<5.0	5.0	12/15/23 12:30	
2-Butanone (MEK)	ug/L	<5.0	5.0	12/15/23 12:30	
2-Hexanone	ug/L	<5.0	5.0	12/15/23 12:30	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	12/15/23 12:30	
Acetone	ug/L	<5.0	5.0	12/15/23 12:30	IL
Acetonitrile	ug/L	<5.0	5.0	12/15/23 12:30	
Acrolein	ug/L	<5.0	5.0	12/15/23 12:30	
Acrylonitrile	ug/L	<5.0	5.0	12/15/23 12:30	
Allyl chloride	ug/L	<5.0	5.0	12/15/23 12:30	
Benzene	ug/L	<5.0	5.0	12/15/23 12:30	
Bromochloromethane	ug/L	<5.0	5.0	12/15/23 12:30	
Bromodichloromethane	ug/L	<5.0	5.0	12/15/23 12:30	
Bromoform	ug/L	<5.0	5.0	12/15/23 12:30	
Bromomethane	ug/L	<5.0	5.0	12/15/23 12:30	IC
Carbon disulfide	ug/L	<5.0	5.0	12/15/23 12:30	
Carbon tetrachloride	ug/L	<5.0	5.0	12/15/23 12:30	
Chlorobenzene	ug/L	<5.0	5.0	12/15/23 12:30	
Chloroethane	ug/L	<5.0	5.0	12/15/23 12:30	
Chloroform	ug/L	<5.0	5.0	12/15/23 12:30	
Chloromethane	ug/L	<5.0	5.0	12/15/23 12:30	v3
Chloroprene	ug/L	<5.0	5.0	12/15/23 12:30	
cis-1,2-Dichloroethene	ug/L	<5.0	5.0	12/15/23 12:30	
cis-1,3-Dichloropropene	ug/L	<5.0	5.0	12/15/23 12:30	
Dibromochloromethane	ug/L	<5.0	5.0	12/15/23 12:30	

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QUALITY CONTROL DATA

Project: CONDENSATE 12/13

Pace Project No.: 70280876

METHOD BLANK: 1695573

Matrix: Water

Associated Lab Samples: 70280876001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	<5.0	5.0	12/15/23 12:30	
Dichlorodifluoromethane	ug/L	<5.0	5.0	12/15/23 12:30	
Ethyl methacrylate	ug/L	<5.0	5.0	12/15/23 12:30	
Ethylbenzene	ug/L	<5.0	5.0	12/15/23 12:30	
Iodomethane	ug/L	<5.0	5.0	12/15/23 12:30	
Isobutanol	ug/L	<25.0	25.0	12/15/23 12:30	
Methacrylonitrile	ug/L	<5.0	5.0	12/15/23 12:30	
Methyl methacrylate	ug/L	<5.0	5.0	12/15/23 12:30	
Methylene Chloride	ug/L	<5.0	5.0	12/15/23 12:30	
Propionitrile	ug/L	<5.0	5.0	12/15/23 12:30	
Styrene	ug/L	<5.0	5.0	12/15/23 12:30	
Tetrachloroethene	ug/L	<5.0	5.0	12/15/23 12:30	
Toluene	ug/L	<5.0	5.0	12/15/23 12:30	
trans-1,2-Dichloroethene	ug/L	<5.0	5.0	12/15/23 12:30	
trans-1,3-Dichloropropene	ug/L	<5.0	5.0	12/15/23 12:30	
trans-1,4-Dichloro-2-butene	ug/L	<5.0	5.0	12/15/23 12:30	
Trichloroethene	ug/L	<5.0	5.0	12/15/23 12:30	
Trichlorofluoromethane	ug/L	<5.0	5.0	12/15/23 12:30	
Vinyl acetate	ug/L	<5.0	5.0	12/15/23 12:30	
Vinyl chloride	ug/L	<5.0	5.0	12/15/23 12:30	
Xylene (Total)	ug/L	<5.0	5.0	12/15/23 12:30	
1,2-Dichloroethane-d4 (S)	%	93	80-120	12/15/23 12:30	
4-Bromofluorobenzene (S)	%	102	73-122	12/15/23 12:30	
Toluene-d8 (S)	%	96	75-122	12/15/23 12:30	

LABORATORY CONTROL SAMPLE: 1695574

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.2	102	66-131	
1,1,1-Trichloroethane	ug/L	50	53.9	108	66-121	
1,1,2,2-Tetrachloroethane	ug/L	50	44.8	90	75-119	
1,1,2-Trichloroethane	ug/L	50	52.8	106	81-120	IC
1,1-Dichloroethane	ug/L	50	47.5	95	61-127	
1,1-Dichloroethene	ug/L	50	49.0	98	51-133	
1,1-Dichloropropene	ug/L	50	52.2	104	69-122	
1,2,3-Trichloropropane	ug/L	50	45.2	90	81-116	
1,2-Dibromo-3-chloropropane	ug/L	50	49.9	100	59-126	
1,2-Dibromoethane (EDB)	ug/L	50	52.0	104	79-121	
1,2-Dichlorobenzene	ug/L	50	47.0	94	78-116	
1,2-Dichloroethane	ug/L	50	45.6	91	70-127	
1,2-Dichloropropane	ug/L	50	47.8	96	73-121	
1,3-Dichlorobenzene	ug/L	50	48.1	96	76-116	
1,3-Dichloropropane	ug/L	50	49.1	98	80-122	
1,4-Dichlorobenzene	ug/L	50	47.2	94	77-115	

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QUALITY CONTROL DATA

Project: CONDENSATE 12/13

Pace Project No.: 70280876

LABORATORY CONTROL SAMPLE: 1695574

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	53.5	107	42-146	
2-Butanone (MEK)	ug/L	50	49.3	99	46-183	
2-Hexanone	ug/L	50	41.6	83	53-145	
4-Methyl-2-pentanone (MIBK)	ug/L	50	43.5	87	64-131	
Acetone	ug/L	50	38.2	76	21-195	IL
Acetonitrile	ug/L	250	239	96	51-150	
Acrolein	ug/L	50	60.3	121	10-200	v1
Acrylonitrile	ug/L	50	47.8	96	58-132	
Allyl chloride	ug/L	50	48.6	97	60-131	
Benzene	ug/L	50	50.1	100	72-122	
Bromochloromethane	ug/L	50	47.1	94	70-129	
Bromodichloromethane	ug/L	50	52.3	105	79-118	
Bromoform	ug/L	50	58.2	116	61-139	
Bromomethane	ug/L	50	50.0	100	25-144	IC
Carbon disulfide	ug/L	50	48.2	96	50-126	
Carbon tetrachloride	ug/L	50	53.8	108	57-124	
Chlorobenzene	ug/L	50	50.1	100	72-125	
Chloroethane	ug/L	50	49.1	98	51-136	
Chloroform	ug/L	50	49.5	99	69-124	
Chloromethane	ug/L	50	37.5	75	18-160	v3
Chloroprene	ug/L	50	48.3	97	60-126	
cis-1,2-Dichloroethene	ug/L	50	50.8	102	65-126	
cis-1,3-Dichloropropene	ug/L	50	52.9	106	70-127	
Dibromochloromethane	ug/L	50	53.8	108	72-134	
Dibromomethane	ug/L	50	51.2	102	76-128	
Dichlorodifluoromethane	ug/L	50	42.5	85	13-154	
Ethyl methacrylate	ug/L	50	50.3	101	65-136	
Ethylbenzene	ug/L	50	49.9	100	72-120	
Iodomethane	ug/L	50	53.5	107	13-153	
Isobutanol	ug/L	250	272	109	26-157	
Methacrylonitrile	ug/L	50	47.3	95	65-124	
Methyl methacrylate	ug/L	50	49.3	99	68-128	
Methylene Chloride	ug/L	50	48.2	96	59-127	
Propionitrile	ug/L	50	50.6	101	55-133	
Styrene	ug/L	50	50.6	101	77-128	
Tetrachloroethene	ug/L	50	53.7	107	60-134	
Toluene	ug/L	50	52.0	104	75-120	
trans-1,2-Dichloroethene	ug/L	50	48.7	97	54-132	
trans-1,3-Dichloropropene	ug/L	50	52.9	106	62-136	
trans-1,4-Dichloro-2-butene	ug/L	50	45.8	92	56-128	
Trichloroethene	ug/L	50	53.2	106	74-118	
Trichlorofluoromethane	ug/L	50	53.5	107	46-146	
Vinyl acetate	ug/L	50	44.5	89	49-140	
Vinyl chloride	ug/L	50	45.9	92	39-127	
Xylene (Total)	ug/L	150	148	99	70-121	
1,2-Dichloroethane-d4 (S)	%			94	80-120	
4-Bromofluorobenzene (S)	%			102	73-122	

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QUALITY CONTROL DATA

Project: CONDENSATE 12/13

Pace Project No.: 70280876

LABORATORY CONTROL SAMPLE: 1695574

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			98	75-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697656 1697657

Parameter	Units	70280876001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<5.0	50	50	53.7	53.4	107	107	63-136	1	
1,1,1-Trichloroethane	ug/L	<5.0	50	50	57.3	56.1	115	112	68-134	2	
1,1,2,2-Tetrachloroethane	ug/L	<5.0	50	50	46.4	47.2	93	94	64-126	2	
1,1,2-Trichloroethane	ug/L	<5.0	50	50	54.2	52.0	108	104	68-131	4	IC
1,1-Dichloroethane	ug/L	<5.0	50	50	51.4	50.6	103	101	54-145	2	
1,1-Dichloroethene	ug/L	<5.0	50	50	54.4	52.0	109	104	53-147	4	
1,1-Dichloropropene	ug/L	<5.0	50	50	56.5	54.0	113	108	74-138	4	
1,2,3-Trichloropropane	ug/L	<5.0	50	50	45.8	45.8	92	92	73-120	0	
1,2-Dibromo-3-chloropropane	ug/L	<5.0	50	50	45.8	48.2	92	96	45-128	5	
1,2-Dibromoethane (EDB)	ug/L	<5.0	50	50	54.2	52.2	108	104	68-131	4	
1,2-Dichlorobenzene	ug/L	5.0	50	50	47.6	48.6	91	93	75-120	2	
1,2-Dichloroethane	ug/L	<5.0	50	50	47.6	46.3	95	93	58-141	3	
1,2-Dichloropropane	ug/L	<5.0	50	50	51.8	50.5	104	101	64-136	3	
1,3-Dichlorobenzene	ug/L	<5.0	50	50	50.3	49.2	101	98	67-129	2	
1,3-Dichloropropane	ug/L	<5.0	50	50	50.0	48.5	100	97	75-129	3	
1,4-Dichlorobenzene	ug/L	17.8	50	50	49.3	47.6	63	60	75-119	4	M1
2,2-Dichloropropane	ug/L	<5.0	50	50	50.0	48.2	100	96	40-153	4	
2-Butanone (MEK)	ug/L	5.9	50	50	46.3	45.6	81	79	23-184	1	
2-Hexanone	ug/L	<5.0	50	50	39.7	40.1	79	80	49-129	1	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	44.1	43.9	82	81	52-141	0	
Acetone	ug/L	27.1	50	50	33.5	31.8	13	9	20-139	5	IL,M1
Acetonitrile	ug/L	<5.0	250	250	228	240	91	96	37-157	5	
Acrolein	ug/L	<5.0	50	50	119	104	237	208	10-200	13	M1,v1
Acrylonitrile	ug/L	<5.0	50	50	47.7	48.5	95	97	42-136	2	
Allyl chloride	ug/L	<5.0	50	50	50.7	49.4	101	99	61-131	3	
Benzene	ug/L	5.0	50	50	53.4	52.1	99	96	67-139	3	
Bromochloromethane	ug/L	<5.0	50	50	50.0	50.3	100	101	58-144	1	
Bromodichloromethane	ug/L	<5.0	50	50	54.3	52.7	109	105	70-127	3	
Bromoform	ug/L	<5.0	50	50	54.6	56.6	109	113	47-138	4	
Bromomethane	ug/L	<5.0	50	50	49.3	55.8	99	112	10-148	12	IC
Carbon disulfide	ug/L	6.6	50	50	52.0	50.6	91	88	51-135	3	
Carbon tetrachloride	ug/L	<5.0	50	50	57.3	56.5	115	113	61-136	1	
Chlorobenzene	ug/L	5.0	50	50	52.7	51.7	98	96	73-130	2	
Chloroethane	ug/L	<5.0	50	50	52.4	51.6	105	103	48-152	2	
Chloroform	ug/L	<5.0	50	50	53.7	52.7	107	105	58-143	2	
Chloromethane	ug/L	<5.0	50	50	42.1	42.1	84	84	17-167	0	v3
Chloroprene	ug/L	<5.0	50	50	52.5	50.8	105	102	64-136	3	
cis-1,2-Dichloroethene	ug/L	<5.0	50	50	53.8	52.4	108	105	58-142	3	
cis-1,3-Dichloropropene	ug/L	<5.0	50	50	53.6	51.5	107	103	59-134	4	

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QUALITY CONTROL DATA

Project: CONDENSATE 12/13

Pace Project No.: 70280876

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1697656 1697657											
Parameter	Units	70280876001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Dibromochloromethane	ug/L	<5.0	50	50	53.6	53.8	107	108	65-133	0	
Dibromomethane	ug/L	<5.0	50	50	52.7	51.1	105	102	62-143	3	
Dichlorodifluoromethane	ug/L	<5.0	50	50	44.2	43.9	88	88	15-152	1	
Ethyl methacrylate	ug/L	<5.0	50	50	51.6	50.9	103	102	45-142	1	
Ethylbenzene	ug/L	12.6	50	50	53.0	53.2	81	81	63-139	0	
Iodomethane	ug/L	<5.0	50	50	57.9	58.2	116	116	13-171	1	
Isobutanol	ug/L	<25.0	250	250	197	267	79	107	21-136	30	R1
Methacrylonitrile	ug/L	<5.0	50	50	48.1	46.8	96	94	36-135	3	
Methyl methacrylate	ug/L	<5.0	50	50	51.8	51.0	104	102	42-137	2	
Methylene Chloride	ug/L	<5.0	50	50	51.4	49.8	103	100	47-142	3	
Propionitrile	ug/L	<5.0	50	50	48.8	48.8	98	98	26-139	0	
Styrene	ug/L	<5.0	50	50	53.1	52.3	106	105	72-134	1	
Tetrachloroethene	ug/L	<5.0	50	50	54.2	53.9	108	108	64-144	1	
Toluene	ug/L	19.5	50	50	54.8	53.3	71	68	72-136	3	M1
trans-1,2-Dichloroethene	ug/L	<5.0	50	50	53.4	52.5	107	105	47-151	2	
trans-1,3-Dichloropropene	ug/L	<5.0	50	50	52.8	51.4	106	103	53-139	3	
trans-1,4-Dichloro-2-butene	ug/L	<5.0	50	50	42.7	43.1	85	86	46-125	1	
Trichloroethene	ug/L	<5.0	50	50	57.4	54.5	115	109	76-130	5	
Trichlorofluoromethane	ug/L	<5.0	50	50	56.4	55.2	113	110	47-161	2	
Vinyl acetate	ug/L	<5.0	50	50	39.9	39.5	80	79	34-134	1	
Vinyl chloride	ug/L	<5.0	50	50	50.2	48.7	100	97	43-135	3	
Xylene (Total)	ug/L	24.0	150	150	155	154	87	87	63-136	1	
1,2-Dichloroethane-d4 (S)	%						96	92	80-120		
4-Bromofluorobenzene (S)	%						103	103	73-122		
Toluene-d8 (S)	%						96	97	75-122		

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QUALITY CONTROL DATA

Project: CONDENSATE 12/13

Pace Project No.: 70280876

QC Batch: 330867

QC Batch Method: EPA 180.1

Analysis Method: EPA 180.1

Analysis Description: 180.1 Turbidity

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70280876001

METHOD BLANK: 1694932

Matrix: Water

Associated Lab Samples: 70280876001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Turbidity	NTU	<1.0	1.0	12/14/23 15:22	

LABORATORY CONTROL SAMPLE: 1694933

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	10	11.0	110	90-110	

SAMPLE DUPLICATE: 1694934

Parameter	Units	70280924001 Result	Dup Result	RPD	Qualifiers
Turbidity	NTU	<1.0	<1.0		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CONDENSATE 12/13

Pace Project No.: 70280876

QC Batch: 330866

Analysis Method: SM22 2120B

QC Batch Method: SM22 2120B

Analysis Description: 2120B Color

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70280876001

METHOD BLANK: 1694929

Matrix: Water

Associated Lab Samples: 70280876001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Apparent Color	units	<5.0	5.0	12/14/23 15:20	

LABORATORY CONTROL SAMPLE: 1694930

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Apparent Color	units	40	40.0	100	90-110	

SAMPLE DUPLICATE: 1694931

Parameter	Units	70280771001 Result	Dup Result	RPD	Qualifiers
Apparent Color	units	<5.0	<5.0		
pH	Std. Units	7.3	7.2	1	

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QUALITY CONTROL DATA

Project: CONDENSATE 12/13

Pace Project No.: 70280876

QC Batch: 331964

Analysis Method: SM22 2320B

QC Batch Method: SM22 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70280876001

METHOD BLANK: 1701422

Matrix: Water

Associated Lab Samples: 70280876001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	<1.0	1.0	12/26/23 11:16	

LABORATORY CONTROL SAMPLE: 1701423

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	25	23.8	95	85-115	

MATRIX SPIKE SAMPLE: 1701425

Parameter	Units	70281199001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	65.2	50	65.3	0	75-125	M1

SAMPLE DUPLICATE: 1701424

Parameter	Units	70281199001 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	65.2	64.3	1	

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QUALITY CONTROL DATA

Project: CONDENSATE 12/13

Pace Project No.: 70280876

QC Batch: 331319

Analysis Method: SM22 2540C

QC Batch Method: SM22 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70280876001

METHOD BLANK: 1697739

Matrix: Water

Associated Lab Samples: 70280876001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	12/19/23 16:28	

LABORATORY CONTROL SAMPLE: 1697740

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	574	115	85-115	

MATRIX SPIKE SAMPLE: 1697742

Parameter	Units	70280840001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	289	300	613	108	75-125	

SAMPLE DUPLICATE: 1697741

Parameter	Units	70280840001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	289	283	2	

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QUALITY CONTROL DATA

Project: CONDENSATE 12/13

Pace Project No.: 70280876

QC Batch: 331734

Analysis Method: EPA 410.4

QC Batch Method: EPA 410.4

Analysis Description: 410.4 COD

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70280876001

METHOD BLANK: 1700282

Matrix: Water

Associated Lab Samples: 70280876001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<10.0	10.0	12/22/23 07:24	

LABORATORY CONTROL SAMPLE: 1700283

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	506	101	90-110	

MATRIX SPIKE SAMPLE: 1700284

Parameter	Units	70281769001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	24.8	1000	1030	100	90-110	

MATRIX SPIKE SAMPLE: 1700286

Parameter	Units	70281850001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	16.2	1000	1010	100	90-110	

SAMPLE DUPLICATE: 1700285

Parameter	Units	70281769001 Result	Dup Result	RPD	Qualifiers
Chemical Oxygen Demand	mg/L	24.8	22.6	9	

SAMPLE DUPLICATE: 1700287

Parameter	Units	70281850001 Result	Dup Result	RPD	Qualifiers
Chemical Oxygen Demand	mg/L	16.2	16.2	0	

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QUALITY CONTROL DATA

Project: CONDENSATE 12/13

Pace Project No.: 70280876

QC Batch: 330976

Analysis Method: SM22 5210B

QC Batch Method: SM22 5210B

Analysis Description: 5210B BOD, 5 day

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70280876001

METHOD BLANK: 1695473

Matrix: Water

Associated Lab Samples: 70280876001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	<1.0	1.0	12/20/23 09:08	

LABORATORY CONTROL SAMPLE: 1695474

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	213	107	84.5-115.4	

SAMPLE DUPLICATE: 1695475

Parameter	Units	70281005001 Result	Dup Result	RPD	Qualifiers
BOD, 5 day	mg/L	86.7	91.9	6	

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QUALITY CONTROL DATA

Project: CONDENSATE 12/13

Pace Project No.: 70280876

QC Batch: 330741

QC Batch Method: EPA 7196A

Analysis Method: EPA 7196A

Analysis Description: 7196 Chromium, Hexavalent

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70280876001

METHOD BLANK: 1694293

Matrix: Water

Associated Lab Samples: 70280876001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	12/13/23 19:44	

LABORATORY CONTROL SAMPLE: 1694294

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.2	0.19	94	85-115	

MATRIX SPIKE SAMPLE: 1694295

Parameter	Units	70280876001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.20	2	1.8	88	85-115	

SAMPLE DUPLICATE: 1694296

Parameter	Units	70280876001 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.20	<0.20		

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QUALITY CONTROL DATA

Project: CONDENSATE 12/13

Pace Project No.: 70280876

QC Batch:	331693	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70280876001

METHOD BLANK: 1700132 Matrix: Water

Associated Lab Samples: 70280876001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	<0.50	0.50	12/22/23 05:15	
Chloride	mg/L	<2.0	2.0	12/22/23 05:15	
Sulfate	mg/L	<5.0	5.0	12/22/23 05:15	

LABORATORY CONTROL SAMPLE: 1700133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	1	1.0	103	90-110	
Chloride	mg/L	10	10	100	90-110	
Sulfate	mg/L	10	10.1	101	90-110	

MATRIX SPIKE SAMPLE: 1700136

Parameter	Units	70281845001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	<0.50	1	0.93	93	90-110	
Chloride	mg/L	25.3	10	34.6	92	90-110	
Sulfate	mg/L	5.6	10	15.5	98	90-110	

MATRIX SPIKE SAMPLE: 1700145

Parameter	Units	70281077003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	<0.50	1	1.2	116	90-110	M1
Chloride	mg/L	6.5	10	15.7	93	90-110	
Sulfate	mg/L	18.7	10	27.8	91	90-110	

SAMPLE DUPLICATE: 1700137

Parameter	Units	70281845001 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	<0.50	<0.50		
Chloride	mg/L	25.3	25.3	0	
Sulfate	mg/L	5.6	5.6	1	

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QUALITY CONTROL DATA

Project: CONDENSATE 12/13

Pace Project No.: 70280876

SAMPLE DUPLICATE: 1700146

Parameter	Units	70281077003 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	<0.50	<0.50		
Chloride	mg/L	6.5	6.5	0	
Sulfate	mg/L	18.7	18.8	0	

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QUALITY CONTROL DATA

Project: CONDENSATE 12/13
Pace Project No.: 70280876

QC Batch:	331732	Analysis Method:	EPA 351.2
QC Batch Method:	EPA 351.2	Analysis Description:	351.2 TKN
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70280876001

METHOD BLANK: 1700272 Matrix: Water
Associated Lab Samples: 70280876001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.094	0.094	12/22/23 12:49	

LABORATORY CONTROL SAMPLE: 1700273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	3.9	98	90-110	

MATRIX SPIKE SAMPLE: 1700274

Parameter	Units	70281510002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	9.3	4	13.3	100	90-110	

MATRIX SPIKE SAMPLE: 1700276

Parameter	Units	70281179001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.75	4	4.3	90	90-110	

SAMPLE DUPLICATE: 1700275

Parameter	Units	70281510002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	9.3	9.3	1	

SAMPLE DUPLICATE: 1700277

Parameter	Units	70281179001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.75	0.78	3	

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QUALITY CONTROL DATA

Project: CONDENSATE 12/13
Pace Project No.: 70280876

QC Batch:	331254	Analysis Method:	EPA 420.1
QC Batch Method:	EPA 420.1	Analysis Description:	420.1 Phenolics Macro
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70280876001

METHOD BLANK: 1697369 Matrix: Water
Associated Lab Samples: 70280876001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	<10.0	10.0	12/19/23 15:20	

LABORATORY CONTROL SAMPLE: 1697370

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	100	103	103	90-110	

MATRIX SPIKE SAMPLE: 1697371

Parameter	Units	70280653002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	9.5J	50	142	265	75-125	M1

SAMPLE DUPLICATE: 1697372

Parameter	Units	70280653002 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	9.5J	20.3		

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QUALITY CONTROL DATA

Project: CONDENSATE 12/13
Pace Project No.: 70280876

QC Batch:	331986	Analysis Method:	SM22 4500 NH3 H
QC Batch Method:	SM22 4500 NH3 H	Analysis Description:	4500 Ammonia
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70280876001

METHOD BLANK: 1701495 Matrix: Water
Associated Lab Samples: 70280876001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.050	0.050	12/26/23 11:28	

LABORATORY CONTROL SAMPLE: 1701496

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.96	96	90-110	

MATRIX SPIKE SAMPLE: 1701497

Parameter	Units	70281074001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	1	0.93	91	75-125	

SAMPLE DUPLICATE: 1701498

Parameter	Units	70281074001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	<0.10		

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QUALITY CONTROL DATA

Project: CONDENSATE 12/13

Pace Project No.: 70280876

QC Batch: 331845

Analysis Method: EPA 9060A

QC Batch Method: EPA 9060A

Analysis Description: 9060 TOC

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70280876001

METHOD BLANK: 1700770

Matrix: Water

Associated Lab Samples: 70280876001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<0.50	0.50	12/22/23 16:53	
Total Organic Carbon	mg/L	<0.50	0.50	12/22/23 16:53	
Total Organic Carbon	mg/L	<0.50	0.50	12/22/23 16:53	
Total Organic Carbon	mg/L	<0.50	0.50	12/22/23 16:53	
Total Organic Carbon	mg/L	<0.50	0.50	12/22/23 16:53	

LABORATORY CONTROL SAMPLE: 1700771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	10	9.7	97	85-115	
Total Organic Carbon	mg/L	10	10.4	104	85-115	
Total Organic Carbon	mg/L	10	7.0	70	85-115	L2
Total Organic Carbon	mg/L	10	10.5	105	85-115	
Total Organic Carbon	mg/L	10	10.9	109	85-115	

MATRIX SPIKE SAMPLE: 1700773

Parameter	Units	70279878012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	15.0	10	29.2	142	75-125	M1
Total Organic Carbon	mg/L	15.1	10	30.2	151	75-125	M1
Total Organic Carbon	mg/L	14.2	10	29.3	151	75-125	M1
Total Organic Carbon	mg/L	14.9	10	29.5	146	75-125	M0
Total Organic Carbon	mg/L	15.7	10	27.8	120	75-125	

SAMPLE DUPLICATE: 1700772

Parameter	Units	70279878012 Result	Dup Result	RPD	Qualifiers
Mean Total Organic Carbon	mg/L	15.0	13.8	8	
Total Organic Carbon	mg/L	14.2	13.8	2	
Total Organic Carbon	mg/L	14.9	15.1	1	
Total Organic Carbon	mg/L	15.7	15.0	4	
Total Organic Carbon	mg/L	15.1	11.1	30	D6

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QUALIFIERS

Project: CONDENSATE 12/13

Pace Project No.: 70280876

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 330987

- [1] The post digestion spike for sample 70280844003 (PDS 1695517) did not meet acceptance criteria for Silver and Sodium.
- [2] The serial dilution for sample 70280844003 (Sd 1695518) did not meet acceptance criteria for Aluminum, Arsenic, Potassium, Antimony, Selenium, Tin and Vanadium.

ANALYTE QUALIFIERS

- D6 The precision between the sample and sample duplicate exceeded laboratory control limits.
- IC The initial calibration for this compound was outside of method control limits. The result is estimated.
- IL This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
- L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- R1 RPD value was outside control limits.
- v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
- v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CONDENSATE 12/13

Pace Project No.: 70280876

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70280876001	CONDENSATE	SM22 2340B	331264		
70280876001	CONDENSATE	EPA 3005A	330940	EPA 6010C	330987
70280876001	CONDENSATE	EPA 7470A	330946	EPA 7470A	330984
70280876001	CONDENSATE	EPA 8260C/5030C	330998		
70280876001	CONDENSATE	EPA 180.1	330867		
70280876001	CONDENSATE	SM22 2120B	330866		
70280876001	CONDENSATE	SM22 2320B	331964		
70280876001	CONDENSATE	SM22 2540C	331319		
70280876001	CONDENSATE	EPA 410.4	331734	EPA 410.4	331741
70280876001	CONDENSATE	SM22 5210B	330976	SM22 5210B	331615
70280876001	CONDENSATE	EPA 7196A	330741		
70280876001	CONDENSATE	EPA 300.0	331693		
70280876001	CONDENSATE	EPA 351.2	331732	EPA 351.2	331737
70280876001	CONDENSATE	EPA 420.1	331254	EPA 420.1	331314
70280876001	CONDENSATE	SM22 4500 NH3 H	331986		
70280876001	CONDENSATE	EPA 9060A	331845		

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[illegible]

WO#: 70280876

Client Name:

Al Turi Landfill

Project

PM: KMM

Due Date: 12/29/23

CLIENT: ALTURI

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Parcel ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No Temperature Blank Present: ☐ Yes ☒ No
Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ Ziplo ☐ None ☐ Other Type of Ice: ☒ Wet ☐ Blue ☐ None

Thermometer Used: TH211 Correction Factor: +0.4 ☒ Samples on ice, cooling process has begun
Cooler Temperature (°C): 3.2 Cooler Temperature Corrected (°C): 3.6 Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil ☒ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX,
or VA (check map)? ☐ Yes ☒ No

Did samples originate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents:

AS 12/13/23

	COMMENTS:
Chain of Custody Present: ☒ Yes ☐ No	1.
Chain of Custody Filled Out: ☒ Yes ☐ No	2.
Chain of Custody Relinquished: ☒ Yes ☐ No	3.
Sampler Name & Signature on COC: ☐ Yes ☒ No ☐ N/A	4.
Samples Arrived within Hold Time: ☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr): ☒ Yes ☐ No	6.
Rush Turn Around Time Requested ☐ Yes ☒ No	7.
Sufficient Volume: (Triple volume provided for MS/MSD) ☒ Yes ☐ No	8.
Correct Containers Used: ☒ Yes ☐ No	9.
-Pace Containers Used: ☒ Yes ☐ No	10.
Containers Intact: ☒ Yes ☐ No	11.
Filtered volume received for Dissolved tests ☐ Yes ☒ No ☐ N/A	Note: if sediment is visible in the dissolved container.
Sample Labels match COC: ☐ Yes ☒ No	12.
-Includes date/time/ID/Analysis Matrix: SL ☒ OIL OTHER	sulfide container not received. Not included in analysis

Date and Initials of person checking preservation:

AS 12/13/23

All containers needing preservation have been ☒ Yes ☐ No ☐ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot # 12182W	Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, ☒ Yes ☐ No ☐ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).	
Per Method, VOA pH is checked after analysis	
Samples checked for dechlorination: ☐ Yes ☐ No ☒ N/A	Initial when completed: Lot # of added preservative: Date/Time preservative added:
KI starch test strips Lot #	14. Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #	15. Positive for Sulfide? Y N
SM 4500 CN samples checked for sul ☐ Yes ☐ No ☒ N/A	16.
Lead Acetate Strips Lot #	17.
Headspace in VOA Vials (>6mm): ☐ Yes ☐ No ☒ N/A	
Trip Blank Present: ☐ Yes ☐ No ☒ N/A	
Trip Blank Custody Seals Present ☐ Yes ☐ No ☒ N/A	

DATE AND INITIALS OF PERSON COMPLETING SECOND REVIEW:

AS 12/13/23

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

Headspace in the 0582U relieved for alkalinity

* PM (Project Manager) review is documented electronically in LIMS.



January 10, 2024

TJ Milo
Al Turi Landfill
73 Hartley Road
Goshen, NY 10924

RE: Project: OPERATIONAL WELLS 12/14
Pace Project No.: 70281160

Dear TJ Milo:

Enclosed are the analytical results for sample(s) received by the laboratory on December 15, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kimberley M. Mack
kimberley.mack@pacelabs.com
516-370-6052
Project Manager

Enclosures

cc: Marc Colantuono
Diane Conroy, Tetra Tech



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-1		Lab ID: 70281160001		Collected: 12/14/23 13:20		Received: 12/15/23 08:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
		Pace Analytical Services - Melville							
Field pH	6.78	Std. Units			1		12/14/23 13:20		
Field Temperature	8.7	deg C			1		12/14/23 13:20		
Field Specific Conductance	1051	umhos/cm			1		12/14/23 13:20		
Eh	32	mV			1		12/14/23 13:20		
Field Turbidity	36.1	NTU			1		12/14/23 13:20		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B							
		Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	359000	ug/L		830	1		12/20/23 17:57		
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
		Pace Analytical Services - Melville							
Aluminum	<200	ug/L	200		1	12/20/23 08:13	12/20/23 17:57	7429-90-5	
Antimony	<60.0	ug/L	60.0		1	12/20/23 08:13	12/20/23 17:57	7440-36-0	
Arsenic	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 17:57	7440-38-2	
Barium	<200	ug/L	200		1	12/20/23 08:13	12/20/23 17:57	7440-39-3	
Beryllium	<5.0	ug/L	5.0		1	12/20/23 08:13	12/20/23 17:57	7440-41-7	
Boron	208	ug/L	50.0		1	12/20/23 08:13	12/20/23 17:57	7440-42-8	
Cadmium	<2.5	ug/L	2.5		1	12/20/23 08:13	12/20/23 17:57	7440-43-9	
Calcium	99700	ug/L	200		1	12/20/23 08:13	12/20/23 17:57	7440-70-2	
Chromium	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 17:57	7440-47-3	
Cobalt	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 17:57	7440-48-4	
Copper	<25.0	ug/L	25.0		1	12/20/23 08:13	12/20/23 17:57	7440-50-8	
Iron	15100	ug/L	100		1	12/20/23 08:13	12/20/23 17:57	7439-89-6	
Lead	<5.0	ug/L	5.0		1	12/20/23 08:13	12/20/23 17:57	7439-92-1	
Magnesium	26700	ug/L	200		1	12/20/23 08:13	12/20/23 17:57	7439-95-4	
Manganese	1290	ug/L	10.0		1	12/20/23 08:13	12/20/23 17:57	7439-96-5	
Nickel	<40.0	ug/L	40.0		1	12/20/23 08:13	12/20/23 17:57	7440-02-0	
Potassium	16900	ug/L	5000		1	12/20/23 08:13	12/20/23 17:57	7440-09-7	
Selenium	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 17:57	7782-49-2	
Silver	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 17:57	7440-22-4	
Sodium	48000	ug/L	5000		1	12/20/23 08:13	12/20/23 17:57	7440-23-5	
Thallium	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 17:57	7440-28-0	
Tin	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 17:57	7440-31-5	
Vanadium	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 17:57	7440-62-2	
Zinc	<20.0	ug/L	20.0		1	12/20/23 08:13	12/20/23 17:57	7440-66-6	
180.1 Turbidity		Analytical Method: EPA 180.1							
		Pace Analytical Services - Melville							
Turbidity	90.0	NTU		3.0	3		12/15/23 22:45		
2120B W Apparent Color		Analytical Method: SM22 2120B							
		Pace Analytical Services - Melville							
Apparent Color	150	units		25.0	5		12/15/23 22:49		
pH	6.4	Std. Units		0.10	5		12/15/23 22:49		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-1		Lab ID: 70281160001		Collected: 12/14/23 13:20		Received: 12/15/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	327	mg/L	1.0	1		12/26/23 18:03			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	672	mg/L	20.0	1		12/19/23 16:52			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	26.9	mg/L	10.0	1	12/28/23 05:02	12/28/23 07:14			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	4.1	mg/L	4.0	2	12/15/23 16:17	12/20/23 11:48			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<0.50	mg/L	0.50	1		01/04/24 18:23	24959-67-9		
Chloride	50.8	mg/L	2.0	1		01/04/24 18:23	16887-00-6		
Sulfate	139	mg/L	10.0	2		01/08/24 17:59	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	12.5	mg/L	1.0	10	12/28/23 03:54	12/28/23 15:36	7727-37-9		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	14.4	mg/L	1.0	10		12/27/23 12:57	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	2.6	mg/L	1.0	1		12/22/23 22:34	7440-44-0	L2	
Total Organic Carbon	5.2	mg/L	1.0	1		12/22/23 22:34	7440-44-0		
Total Organic Carbon	8.7	mg/L	1.0	1		12/22/23 22:34	7440-44-0		
Total Organic Carbon	10	mg/L	1.0	1		12/22/23 22:34	7440-44-0		
Mean Total Organic Carbon	6.6	mg/L	1.0	1		12/22/23 22:34	7440-44-0		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-3A		Lab ID: 70281160002		Collected: 12/14/23 08:15		Received: 12/15/23 08:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
		Pace Analytical Services - Melville							
Field pH	6.87	Std. Units			1		12/14/23 08:15		
Field Temperature	3.2	deg C			1		12/14/23 08:15		
Field Specific Conductance	431.5	umhos/cm			1		12/14/23 08:15		
Eh	101	mV			1		12/14/23 08:15		
Field Turbidity	109	NTU			1		12/14/23 08:15		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B							
		Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	190000	ug/L		830	1		12/20/23 18:00		
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
		Pace Analytical Services - Melville							
Aluminum	2330	ug/L		200	1	12/20/23 08:13	12/20/23 18:00	7429-90-5	
Antimony	<60.0	ug/L		60.0	1	12/20/23 08:13	12/20/23 18:00	7440-36-0	
Arsenic	<10.0	ug/L		10.0	1	12/20/23 08:13	12/20/23 18:00	7440-38-2	
Barium	<200	ug/L		200	1	12/20/23 08:13	12/20/23 18:00	7440-39-3	
Beryllium	<5.0	ug/L		5.0	1	12/20/23 08:13	12/20/23 18:00	7440-41-7	
Boron	<50.0	ug/L		50.0	1	12/20/23 08:13	12/20/23 18:00	7440-42-8	
Cadmium	<2.5	ug/L		2.5	1	12/20/23 08:13	12/20/23 18:00	7440-43-9	
Calcium	61000	ug/L		200	1	12/20/23 08:13	12/20/23 18:00	7440-70-2	
Chromium	<10.0	ug/L		10.0	1	12/20/23 08:13	12/20/23 18:00	7440-47-3	
Cobalt	<50.0	ug/L		50.0	1	12/20/23 08:13	12/20/23 18:00	7440-48-4	
Copper	<25.0	ug/L		25.0	1	12/20/23 08:13	12/20/23 18:00	7440-50-8	
Iron	4660	ug/L		100	1	12/20/23 08:13	12/20/23 18:00	7439-89-6	
Lead	<5.0	ug/L		5.0	1	12/20/23 08:13	12/20/23 18:00	7439-92-1	
Magnesium	9040	ug/L		200	1	12/20/23 08:13	12/20/23 18:00	7439-95-4	
Manganese	359	ug/L		10.0	1	12/20/23 08:13	12/20/23 18:00	7439-96-5	
Nickel	<40.0	ug/L		40.0	1	12/20/23 08:13	12/20/23 18:00	7440-02-0	
Potassium	<5000	ug/L		5000	1	12/20/23 08:13	12/20/23 18:00	7440-09-7	
Selenium	<10.0	ug/L		10.0	1	12/20/23 08:13	12/20/23 18:00	7782-49-2	
Silver	<10.0	ug/L		10.0	1	12/20/23 08:13	12/20/23 18:00	7440-22-4	
Sodium	27700	ug/L		5000	1	12/20/23 08:13	12/20/23 18:00	7440-23-5	
Thallium	<10.0	ug/L		10.0	1	12/20/23 08:13	12/20/23 18:00	7440-28-0	
Tin	<50.0	ug/L		50.0	1	12/20/23 08:13	12/20/23 18:00	7440-31-5	
Vanadium	<50.0	ug/L		50.0	1	12/20/23 08:13	12/20/23 18:00	7440-62-2	
Zinc	<20.0	ug/L		20.0	1	12/20/23 08:13	12/20/23 18:00	7440-66-6	
180.1 Turbidity		Analytical Method: EPA 180.1							
		Pace Analytical Services - Melville							
Turbidity	26.0	NTU		1.0	1		12/15/23 22:46		
2120B W Apparent Color		Analytical Method: SM22 2120B							
		Pace Analytical Services - Melville							
Apparent Color	15.0	units		5.0	1		12/15/23 22:50		
pH	7.2	Std. Units		0.10	1		12/15/23 22:50		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-3A		Lab ID: 70281160002		Collected: 12/14/23 08:15		Received: 12/15/23 08:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3		179	mg/L	1.0	1		12/26/23 18:14		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids		261	mg/L	10.0	1		12/20/23 17:49		D6
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand		<10.0	mg/L	10.0	1	12/28/23 05:02	12/28/23 07:14		
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day		<2.0	mg/L	2.0	1	12/15/23 16:20	12/20/23 11:50		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide		<0.50	mg/L	0.50	1		01/04/24 18:35	24959-67-9	
Chloride		16.9	mg/L	2.0	1		01/04/24 18:35	16887-00-6	
Sulfate		25.0	mg/L	5.0	1		01/04/24 18:35	14808-79-8	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total		0.40	mg/L	0.10	1	12/28/23 03:54	12/28/23 15:12	7727-37-9	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia		<0.10	mg/L	0.10	1		12/27/23 11:51	7664-41-7	
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon		3.3	mg/L	1.0	1		01/04/24 22:16	7440-44-0	
Total Organic Carbon		3.1	mg/L	1.0	1		01/04/24 22:16	7440-44-0	
Total Organic Carbon		3.3	mg/L	1.0	1		01/04/24 22:16	7440-44-0	
Total Organic Carbon		2.2	mg/L	1.0	1		01/04/24 22:16	7440-44-0	
Mean Total Organic Carbon		3.0	mg/L	1.0	1		01/04/24 22:16	7440-44-0	

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-8D		Lab ID: 70281160003		Collected: 12/14/23 08:30		Received: 12/15/23 08:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
		Pace Analytical Services - Melville							
Field pH	6.90	Std. Units			1		12/14/23 08:30		
Field Temperature	4.6	deg C			1		12/14/23 08:30		
Field Specific Conductance	619.3	umhos/cm			1		12/14/23 08:30		
Eh	52	mV			1		12/14/23 08:30		
Field Turbidity	12.7	NTU			1		12/14/23 08:30		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B							
		Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	304000	ug/L		830	1		12/20/23 18:08		
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
		Pace Analytical Services - Melville							
Aluminum	884	ug/L	200		1	12/20/23 08:13	12/20/23 18:08	7429-90-5	
Antimony	<60.0	ug/L	60.0		1	12/20/23 08:13	12/20/23 18:08	7440-36-0	
Arsenic	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:08	7440-38-2	
Barium	<200	ug/L	200		1	12/20/23 08:13	12/20/23 18:08	7440-39-3	
Beryllium	<5.0	ug/L	5.0		1	12/20/23 08:13	12/20/23 18:08	7440-41-7	
Boron	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 18:08	7440-42-8	
Cadmium	<2.5	ug/L	2.5		1	12/20/23 08:13	12/20/23 18:08	7440-43-9	
Calcium	91000	ug/L	200		1	12/20/23 08:13	12/20/23 18:08	7440-70-2	
Chromium	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:08	7440-47-3	
Cobalt	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 18:08	7440-48-4	
Copper	<25.0	ug/L	25.0		1	12/20/23 08:13	12/20/23 18:08	7440-50-8	
Iron	1370	ug/L	100		1	12/20/23 08:13	12/20/23 18:08	7439-89-6	
Lead	<5.0	ug/L	5.0		1	12/20/23 08:13	12/20/23 18:08	7439-92-1	
Magnesium	18700	ug/L	200		1	12/20/23 08:13	12/20/23 18:08	7439-95-4	
Manganese	306	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:08	7439-96-5	
Nickel	<40.0	ug/L	40.0		1	12/20/23 08:13	12/20/23 18:08	7440-02-0	
Potassium	<5000	ug/L	5000		1	12/20/23 08:13	12/20/23 18:08	7440-09-7	
Selenium	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:08	7782-49-2	
Silver	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:08	7440-22-4	
Sodium	10900	ug/L	5000		1	12/20/23 08:13	12/20/23 18:08	7440-23-5	
Thallium	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:08	7440-28-0	
Tin	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 18:08	7440-31-5	
Vanadium	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 18:08	7440-62-2	
Zinc	<20.0	ug/L	20.0		1	12/20/23 08:13	12/20/23 18:08	7440-66-6	
180.1 Turbidity		Analytical Method: EPA 180.1							
		Pace Analytical Services - Melville							
Turbidity	34.0	NTU		1.0	1		12/15/23 22:48		
2120B W Apparent Color		Analytical Method: SM22 2120B							
		Pace Analytical Services - Melville							
Apparent Color	20.0	units		5.0	1		12/15/23 22:52		
pH	7.0	Std. Units		0.10	1		12/15/23 22:52		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-8D		Lab ID: 70281160003		Collected: 12/14/23 08:30		Received: 12/15/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	265	mg/L	1.0	1		12/26/23 18:40			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	349	mg/L	10.0	1		12/20/23 17:50			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	22.6	mg/L	10.0	1	12/28/23 05:02	12/28/23 07:14			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<2.0	mg/L	2.0	1	12/15/23 16:23	12/20/23 11:54			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<0.50	mg/L	0.50	1		01/04/24 18:48	24959-67-9		
Chloride	17.5	mg/L	2.0	1		01/04/24 18:48	16887-00-6		
Sulfate	37.0	mg/L	5.0	1		01/04/24 18:48	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	1.3	mg/L	0.10	1	12/28/23 03:54	12/28/23 15:12	7727-37-9		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		12/27/23 11:52	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	1.6	mg/L	1.0	1		01/04/24 22:31	7440-44-0		
Total Organic Carbon	1.7	mg/L	1.0	1		01/04/24 22:31	7440-44-0		
Total Organic Carbon	1.7	mg/L	1.0	1		01/04/24 22:31	7440-44-0		
Total Organic Carbon	1.8	mg/L	1.0	1		01/04/24 22:31	7440-44-0		
Mean Total Organic Carbon	1.7	mg/L	1.0	1		01/04/24 22:31	7440-44-0		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-10D		Lab ID: 70281160004		Collected: 12/14/23 08:55		Received: 12/15/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
Field Data									
		Analytical Method:							
		Pace Analytical Services - Melville							
Field pH	6.87	Std. Units		1		12/14/23 08:55			
Field Temperature	6.2	deg C		1		12/14/23 08:55			
Field Specific Conductance	1141	umhos/cm		1		12/14/23 08:55			
Eh	112	mV		1		12/14/23 08:55			
Field Turbidity	17.1	NTU		1		12/14/23 08:55			
2340B Hardness, Total (Calc.)									
		Analytical Method: SM22 2340B							
		Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B)	586000	ug/L	830	1		12/20/23 18:11			
6010 MET ICP									
		Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
		Pace Analytical Services - Melville							
Aluminum	<200	ug/L	200	1	12/20/23 08:13	12/20/23 18:11	7429-90-5		
Antimony	<60.0	ug/L	60.0	1	12/20/23 08:13	12/20/23 18:11	7440-36-0		
Arsenic	14.5	ug/L	10.0	1	12/20/23 08:13	12/20/23 18:11	7440-38-2		
Barium	<200	ug/L	200	1	12/20/23 08:13	12/20/23 18:11	7440-39-3		
Beryllium	<5.0	ug/L	5.0	1	12/20/23 08:13	12/20/23 18:11	7440-41-7		
Boron	<50.0	ug/L	50.0	1	12/20/23 08:13	12/20/23 18:11	7440-42-8		
Cadmium	<2.5	ug/L	2.5	1	12/20/23 08:13	12/20/23 18:11	7440-43-9		
Calcium	164000	ug/L	200	1	12/20/23 08:13	12/20/23 18:11	7440-70-2		
Chromium	<10.0	ug/L	10.0	1	12/20/23 08:13	12/20/23 18:11	7440-47-3		
Cobalt	<50.0	ug/L	50.0	1	12/20/23 08:13	12/20/23 18:11	7440-48-4		
Copper	<25.0	ug/L	25.0	1	12/20/23 08:13	12/20/23 18:11	7440-50-8		
Iron	1700	ug/L	100	1	12/20/23 08:13	12/20/23 18:11	7439-89-6		
Lead	<5.0	ug/L	5.0	1	12/20/23 08:13	12/20/23 18:11	7439-92-1		
Magnesium	42900	ug/L	200	1	12/20/23 08:13	12/20/23 18:11	7439-95-4		
Manganese	1290	ug/L	10.0	1	12/20/23 08:13	12/20/23 18:11	7439-96-5		
Nickel	<40.0	ug/L	40.0	1	12/20/23 08:13	12/20/23 18:11	7440-02-0		
Potassium	<5000	ug/L	5000	1	12/20/23 08:13	12/20/23 18:11	7440-09-7		
Selenium	<10.0	ug/L	10.0	1	12/20/23 08:13	12/20/23 18:11	7782-49-2		
Silver	<10.0	ug/L	10.0	1	12/20/23 08:13	12/20/23 18:11	7440-22-4		
Sodium	20200	ug/L	5000	1	12/20/23 08:13	12/20/23 18:11	7440-23-5		
Thallium	<10.0	ug/L	10.0	1	12/20/23 08:13	12/20/23 18:11	7440-28-0		
Tin	<50.0	ug/L	50.0	1	12/20/23 08:13	12/20/23 18:11	7440-31-5		
Vanadium	<50.0	ug/L	50.0	1	12/20/23 08:13	12/20/23 18:11	7440-62-2		
Zinc	<20.0	ug/L	20.0	1	12/20/23 08:13	12/20/23 18:11	7440-66-6		
180.1 Turbidity									
		Analytical Method: EPA 180.1							
		Pace Analytical Services - Melville							
Turbidity	27.0	NTU	1.0	1		12/15/23 22:52			
2120B W Apparent Color									
		Analytical Method: SM22 2120B							
		Pace Analytical Services - Melville							
Apparent Color	40.0	units	5.0	1		12/15/23 22:55			
pH	6.9	Std. Units	0.10	1		12/15/23 22:55			

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-10D		Lab ID: 70281160004		Collected: 12/14/23 08:55		Received: 12/15/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	519	mg/L	1.0	1		12/26/23 19:02			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	720	mg/L	20.0	1		12/20/23 18:05			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	14.0	mg/L	10.0	1	12/28/23 05:02	12/28/23 07:14			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<2.0	mg/L	2.0	1	12/15/23 16:26	12/20/23 11:56			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<0.50	mg/L	0.50	1		01/04/24 19:00	24959-67-9		
Chloride	34.3	mg/L	2.0	1		01/04/24 19:00	16887-00-6		
Sulfate	81.7	mg/L	5.0	1		01/04/24 19:00	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	0.80	mg/L	0.10	1	12/28/23 03:54	12/28/23 15:13	7727-37-9		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	0.58	mg/L	0.10	1		12/27/23 11:54	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	2.8	mg/L	1.0	1		01/04/24 22:44	7440-44-0		
Total Organic Carbon	1.2	mg/L	1.0	1		01/04/24 22:44	7440-44-0		
Total Organic Carbon	1.3	mg/L	1.0	1		01/04/24 22:44	7440-44-0		
Total Organic Carbon	2.4	mg/L	1.0	1		01/04/24 22:44	7440-44-0		
Mean Total Organic Carbon	1.9	mg/L	1.0	1		01/04/24 22:44	7440-44-0		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-7S		Lab ID: 70281160005		Collected: 12/14/23 09:25		Received: 12/15/23 08:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method: Pace Analytical Services - Melville							
Field pH	6.98	Std. Units			1		12/14/23 09:25		
Field Temperature	6.3	deg C			1		12/14/23 09:25		
Field Specific Conductance	1362	umhos/cm			1		12/14/23 09:25		
Eh	10	mV			1		12/14/23 09:25		
Field Turbidity	5.61	NTU			1		12/14/23 09:25		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	592000	ug/L		830	1		12/20/23 18:14		
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Aluminum	<200	ug/L	200		1	12/20/23 08:13	12/20/23 18:14	7429-90-5	
Antimony	<60.0	ug/L	60.0		1	12/20/23 08:13	12/20/23 18:14	7440-36-0	
Arsenic	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:14	7440-38-2	
Barium	<200	ug/L	200		1	12/20/23 08:13	12/20/23 18:14	7440-39-3	
Beryllium	<5.0	ug/L	5.0		1	12/20/23 08:13	12/20/23 18:14	7440-41-7	
Boron	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 18:14	7440-42-8	
Cadmium	<2.5	ug/L	2.5		1	12/20/23 08:13	12/20/23 18:14	7440-43-9	
Calcium	174000	ug/L	200		1	12/20/23 08:13	12/20/23 18:14	7440-70-2	
Chromium	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:14	7440-47-3	
Cobalt	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 18:14	7440-48-4	
Copper	<25.0	ug/L	25.0		1	12/20/23 08:13	12/20/23 18:14	7440-50-8	
Iron	10500	ug/L	100		1	12/20/23 08:13	12/20/23 18:14	7439-89-6	
Lead	<5.0	ug/L	5.0		1	12/20/23 08:13	12/20/23 18:14	7439-92-1	
Magnesium	38300	ug/L	200		1	12/20/23 08:13	12/20/23 18:14	7439-95-4	
Manganese	1520	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:14	7439-96-5	
Nickel	<40.0	ug/L	40.0		1	12/20/23 08:13	12/20/23 18:14	7440-02-0	
Potassium	<5000	ug/L	5000		1	12/20/23 08:13	12/20/23 18:14	7440-09-7	
Selenium	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:14	7782-49-2	
Silver	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:14	7440-22-4	
Sodium	51400	ug/L	5000		1	12/20/23 08:13	12/20/23 18:14	7440-23-5	
Thallium	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:14	7440-28-0	
Tin	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 18:14	7440-31-5	
Vanadium	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 18:14	7440-62-2	
Zinc	<20.0	ug/L	20.0		1	12/20/23 08:13	12/20/23 18:14	7440-66-6	
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville							
Turbidity	130	NTU		5.0	5		12/15/23 22:59		
2120B W Apparent Color		Analytical Method: SM22 2120B Pace Analytical Services - Melville							
Apparent Color	200	units		25.0	5		12/15/23 23:00		
pH	6.8	Std. Units		0.10	5		12/15/23 23:00		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-7S		Lab ID: 70281160005		Collected: 12/14/23 09:25		Received: 12/15/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	533	mg/L	1.0	1		12/26/23 19:24			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	748	mg/L	20.0	1		12/20/23 18:06			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	22.6	mg/L	10.0	1	12/28/23 05:02	12/28/23 07:15			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<2.0	mg/L	2.0	1	12/16/23 05:40	12/21/23 09:24			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<0.50	mg/L	0.50	1		01/04/24 19:12	24959-67-9		
Chloride	130	mg/L	4.0	2		01/08/24 18:11	16887-00-6		
Sulfate	52.5	mg/L	5.0	1		01/04/24 19:12	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	0.46	mg/L	0.10	1	12/28/23 03:54	12/28/23 15:14	7727-37-9		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	0.12	mg/L	0.10	1		12/27/23 11:55	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	<1.0	mg/L	1.0	1		01/04/24 23:34	7440-44-0		
Total Organic Carbon	1.1	mg/L	1.0	1		01/04/24 23:34	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		01/04/24 23:34	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		01/04/24 23:34	7440-44-0		
Mean Total Organic Carbon	<1.0	mg/L	1.0	1		01/04/24 23:34	7440-44-0		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-6DA		Lab ID: 70281160006		Collected: 12/14/23 09:55		Received: 12/15/23 08:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
		Pace Analytical Services - Melville							
Field pH	7.61	Std. Units			1		12/14/23 09:55		
Field Temperature	6.9	deg C			1		12/14/23 09:55		
Field Specific Conductance	419.1	umhos/cm			1		12/14/23 09:55		
Eh	24	mV			1		12/14/23 09:55		
Field Turbidity	8.35	NTU			1		12/14/23 09:55		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B							
		Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	184000	ug/L		830	1		12/20/23 18:16		
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
		Pace Analytical Services - Melville							
Aluminum	<200	ug/L		200	1	12/20/23 08:13	12/20/23 18:16	7429-90-5	
Antimony	<60.0	ug/L		60.0	1	12/20/23 08:13	12/20/23 18:16	7440-36-0	
Arsenic	<10.0	ug/L		10.0	1	12/20/23 08:13	12/20/23 18:16	7440-38-2	
Barium	<200	ug/L		200	1	12/20/23 08:13	12/20/23 18:16	7440-39-3	
Beryllium	<5.0	ug/L		5.0	1	12/20/23 08:13	12/20/23 18:16	7440-41-7	
Boron	<50.0	ug/L		50.0	1	12/20/23 08:13	12/20/23 18:16	7440-42-8	
Cadmium	<2.5	ug/L		2.5	1	12/20/23 08:13	12/20/23 18:16	7440-43-9	
Calcium	58800	ug/L		200	1	12/20/23 08:13	12/20/23 18:16	7440-70-2	
Chromium	<10.0	ug/L		10.0	1	12/20/23 08:13	12/20/23 18:16	7440-47-3	
Cobalt	<50.0	ug/L		50.0	1	12/20/23 08:13	12/20/23 18:16	7440-48-4	
Copper	<25.0	ug/L		25.0	1	12/20/23 08:13	12/20/23 18:16	7440-50-8	
Iron	189	ug/L		100	1	12/20/23 08:13	12/20/23 18:16	7439-89-6	
Lead	<5.0	ug/L		5.0	1	12/20/23 08:13	12/20/23 18:16	7439-92-1	
Magnesium	8990	ug/L		200	1	12/20/23 08:13	12/20/23 18:16	7439-95-4	
Manganese	131	ug/L		10.0	1	12/20/23 08:13	12/20/23 18:16	7439-96-5	
Nickel	<40.0	ug/L		40.0	1	12/20/23 08:13	12/20/23 18:16	7440-02-0	
Potassium	<5000	ug/L		5000	1	12/20/23 08:13	12/20/23 18:16	7440-09-7	
Selenium	<10.0	ug/L		10.0	1	12/20/23 08:13	12/20/23 18:16	7782-49-2	
Silver	<10.0	ug/L		10.0	1	12/20/23 08:13	12/20/23 18:16	7440-22-4	
Sodium	10300	ug/L		5000	1	12/20/23 08:13	12/20/23 18:16	7440-23-5	
Thallium	<10.0	ug/L		10.0	1	12/20/23 08:13	12/20/23 18:16	7440-28-0	
Tin	<50.0	ug/L		50.0	1	12/20/23 08:13	12/20/23 18:16	7440-31-5	
Vanadium	<50.0	ug/L		50.0	1	12/20/23 08:13	12/20/23 18:16	7440-62-2	
Zinc	<20.0	ug/L		20.0	1	12/20/23 08:13	12/20/23 18:16	7440-66-6	
180.1 Turbidity		Analytical Method: EPA 180.1							
		Pace Analytical Services - Melville							
Turbidity	4.6	NTU		1.0	1		12/15/23 23:02		
2120B W Apparent Color		Analytical Method: SM22 2120B							
		Pace Analytical Services - Melville							
Apparent Color	15.0	units		5.0	1		12/15/23 23:02		
pH	7.8	Std. Units		0.10	1		12/15/23 23:02		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-6DA		Lab ID: 70281160006		Collected: 12/14/23 09:55		Received: 12/15/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	147	mg/L	1.0	1		12/26/23 19:34			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	287	mg/L	10.0	1		12/20/23 18:06			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	<10.0	mg/L	10.0	1	12/28/23 05:02	12/28/23 07:15			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<2.0	mg/L	2.0	1	12/16/23 05:40	12/21/23 09:26			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<0.50	mg/L	0.50	1		01/04/24 19:25	24959-67-9		
Chloride	3.6	mg/L	2.0	1		01/04/24 19:25	16887-00-6		
Sulfate	69.3	mg/L	5.0	1		01/04/24 19:25	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	0.23	mg/L	0.10	1	12/28/23 03:54	12/28/23 15:15	7727-37-9		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		12/27/23 11:56	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	<1.0	mg/L	1.0	1		01/04/24 23:45	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		01/04/24 23:45	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		01/04/24 23:45	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		01/04/24 23:45	7440-44-0		
Mean Total Organic Carbon	<1.0	mg/L	1.0	1		01/04/24 23:45	7440-44-0		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-6S		Lab ID: 70281160007		Collected: 12/14/23 09:45		Received: 12/15/23 08:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
		Pace Analytical Services - Melville							
Field pH	7.29	Std. Units			1		12/14/23 09:45		
Field Temperature	5.7	deg C			1		12/14/23 09:45		
Field Specific Conductance	915.7	umhos/cm			1		12/14/23 09:45		
Eh	17	mV			1		12/14/23 09:45		
Field Turbidity	45.1	NTU			1		12/14/23 09:45		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B							
		Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	415000	ug/L		830	1		12/20/23 18:19		
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
		Pace Analytical Services - Melville							
Aluminum	228	ug/L	200	1	12/20/23 08:13	12/20/23 18:19	7429-90-5		
Antimony	<60.0	ug/L	60.0	1	12/20/23 08:13	12/20/23 18:19	7440-36-0		
Arsenic	<10.0	ug/L	10.0	1	12/20/23 08:13	12/20/23 18:19	7440-38-2		
Barium	303	ug/L	200	1	12/20/23 08:13	12/20/23 18:19	7440-39-3		
Beryllium	<5.0	ug/L	5.0	1	12/20/23 08:13	12/20/23 18:19	7440-41-7		
Boron	<50.0	ug/L	50.0	1	12/20/23 08:13	12/20/23 18:19	7440-42-8		
Cadmium	<2.5	ug/L	2.5	1	12/20/23 08:13	12/20/23 18:19	7440-43-9		
Calcium	133000	ug/L	200	1	12/20/23 08:13	12/20/23 18:19	7440-70-2		
Chromium	<10.0	ug/L	10.0	1	12/20/23 08:13	12/20/23 18:19	7440-47-3		
Cobalt	<50.0	ug/L	50.0	1	12/20/23 08:13	12/20/23 18:19	7440-48-4		
Copper	<25.0	ug/L	25.0	1	12/20/23 08:13	12/20/23 18:19	7440-50-8		
Iron	27700	ug/L	100	1	12/20/23 08:13	12/20/23 18:19	7439-89-6		
Lead	<5.0	ug/L	5.0	1	12/20/23 08:13	12/20/23 18:19	7439-92-1		
Magnesium	20200	ug/L	200	1	12/20/23 08:13	12/20/23 18:19	7439-95-4		
Manganese	2840	ug/L	10.0	1	12/20/23 08:13	12/20/23 18:19	7439-96-5		
Nickel	<40.0	ug/L	40.0	1	12/20/23 08:13	12/20/23 18:19	7440-02-0		
Potassium	<5000	ug/L	5000	1	12/20/23 08:13	12/20/23 18:19	7440-09-7		
Selenium	<10.0	ug/L	10.0	1	12/20/23 08:13	12/20/23 18:19	7782-49-2		
Silver	<10.0	ug/L	10.0	1	12/20/23 08:13	12/20/23 18:19	7440-22-4		
Sodium	9090	ug/L	5000	1	12/20/23 08:13	12/20/23 18:19	7440-23-5		
Thallium	<10.0	ug/L	10.0	1	12/20/23 08:13	12/20/23 18:19	7440-28-0		
Tin	<50.0	ug/L	50.0	1	12/20/23 08:13	12/20/23 18:19	7440-31-5		
Vanadium	<50.0	ug/L	50.0	1	12/20/23 08:13	12/20/23 18:19	7440-62-2		
Zinc	<20.0	ug/L	20.0	1	12/20/23 08:13	12/20/23 18:19	7440-66-6		
180.1 Turbidity		Analytical Method: EPA 180.1							
		Pace Analytical Services - Melville							
Turbidity	210	NTU	10.0	10		12/15/23 23:05			
2120B W Apparent Color		Analytical Method: SM22 2120B							
		Pace Analytical Services - Melville							
Apparent Color	230	units	25.0	5		12/15/23 23:04			
pH	6.7	Std. Units	0.10	5		12/15/23 23:04			

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-6S		Lab ID: 70281160007		Collected: 12/14/23 09:45		Received: 12/15/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	426	mg/L	1.0	1		12/26/23 19:53			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	481	mg/L	10.0	1		12/20/23 18:07			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	33.4	mg/L	10.0	1	12/28/23 05:02	12/28/23 07:15			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<2.0	mg/L	2.0	1	12/16/23 05:40	12/21/23 09:28			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<0.50	mg/L	0.50	1		01/04/24 19:37	24959-67-9		
Chloride	19.8	mg/L	2.0	1		01/04/24 19:37	16887-00-6		
Sulfate	7.0	mg/L	5.0	1		01/04/24 19:37	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	2.4	mg/L	0.10	1	12/28/23 03:54	12/28/23 15:16	7727-37-9		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	2.1	mg/L	0.50	5		12/27/23 12:00	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	7.6	mg/L	1.0	1		01/05/24 00:01	7440-44-0		
Total Organic Carbon	8.0	mg/L	1.0	1		01/05/24 00:01	7440-44-0		
Total Organic Carbon	5.7	mg/L	1.0	1		01/05/24 00:01	7440-44-0		
Total Organic Carbon	7.4	mg/L	1.0	1		01/05/24 00:01	7440-44-0		
Mean Total Organic Carbon	7.2	mg/L	1.0	1		01/05/24 00:01	7440-44-0		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-17D		Lab ID: 70281160008		Collected: 12/14/23 10:25		Received: 12/15/23 08:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method: Pace Analytical Services - Melville							
Field pH	7.21	Std. Units			1		12/14/23 10:25		
Field Temperature	7.5	deg C			1		12/14/23 10:25		
Field Specific Conductance	1222	umhos/cm			1		12/14/23 10:25		
Eh	92	mV			1		12/14/23 10:25		
Field Turbidity	13.9	NTU			1		12/14/23 10:25		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	578000	ug/L		830	1		12/20/23 18:22		
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Aluminum	<200	ug/L	200		1	12/20/23 08:13	12/20/23 18:22	7429-90-5	
Antimony	<60.0	ug/L	60.0		1	12/20/23 08:13	12/20/23 18:22	7440-36-0	
Arsenic	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:22	7440-38-2	
Barium	<200	ug/L	200		1	12/20/23 08:13	12/20/23 18:22	7440-39-3	
Beryllium	<5.0	ug/L	5.0		1	12/20/23 08:13	12/20/23 18:22	7440-41-7	
Boron	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 18:22	7440-42-8	
Cadmium	<2.5	ug/L	2.5		1	12/20/23 08:13	12/20/23 18:22	7440-43-9	
Calcium	178000	ug/L	200		1	12/20/23 08:13	12/20/23 18:22	7440-70-2	
Chromium	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:22	7440-47-3	
Cobalt	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 18:22	7440-48-4	
Copper	<25.0	ug/L	25.0		1	12/20/23 08:13	12/20/23 18:22	7440-50-8	
Iron	621	ug/L	100		1	12/20/23 08:13	12/20/23 18:22	7439-89-6	
Lead	<5.0	ug/L	5.0		1	12/20/23 08:13	12/20/23 18:22	7439-92-1	
Magnesium	32400	ug/L	200		1	12/20/23 08:13	12/20/23 18:22	7439-95-4	
Manganese	1300	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:22	7439-96-5	
Nickel	<40.0	ug/L	40.0		1	12/20/23 08:13	12/20/23 18:22	7440-02-0	
Potassium	<5000	ug/L	5000		1	12/20/23 08:13	12/20/23 18:22	7440-09-7	
Selenium	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:22	7782-49-2	
Silver	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:22	7440-22-4	
Sodium	32700	ug/L	5000		1	12/20/23 08:13	12/20/23 18:22	7440-23-5	
Thallium	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:22	7440-28-0	
Tin	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 18:22	7440-31-5	
Vanadium	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 18:22	7440-62-2	
Zinc	<20.0	ug/L	20.0		1	12/20/23 08:13	12/20/23 18:22	7440-66-6	
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville							
Turbidity	6.9	NTU		1.0	1		12/15/23 23:06		
2120B W Apparent Color		Analytical Method: SM22 2120B Pace Analytical Services - Melville							
Apparent Color	20.0	units		5.0	1		12/15/23 23:06		
pH	7.0	Std. Units		0.10	1		12/15/23 23:06		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-17D		Lab ID: 70281160008		Collected: 12/14/23 10:25		Received: 12/15/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	467	mg/L	1.0	1		12/26/23 20:13			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	724	mg/L	20.0	1		12/20/23 18:07			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	14.0	mg/L	10.0	1	12/28/23 05:02	12/28/23 07:15			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<2.0	mg/L	2.0	1	12/16/23 05:40	12/21/23 09:39			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<0.50	mg/L	0.50	1		01/04/24 19:50	24959-67-9		
Chloride	90.8	mg/L	2.0	1		01/04/24 19:50	16887-00-6		
Sulfate	67.6	mg/L	5.0	1		01/04/24 19:50	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	0.55	mg/L	0.10	1	12/28/23 03:54	12/28/23 15:17	7727-37-9		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	0.11	mg/L	0.10	1		12/27/23 12:01	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	<1.0	mg/L	1.0	1		01/05/24 00:13	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		01/05/24 00:13	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		01/05/24 00:13	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		01/05/24 00:13	7440-44-0		
Mean Total Organic Carbon	<1.0	mg/L	1.0	1		01/05/24 00:13	7440-44-0		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-17S		Lab ID: 70281160009		Collected: 12/14/23 10:15		Received: 12/15/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
Field Data	Analytical Method: Pace Analytical Services - Melville								
	Field pH	7.18	Std. Units		1	12/14/23 10:15			
	Field Temperature	5.9	deg C		1	12/14/23 10:15			
	Field Specific Conductance	1158	umhos/cm		1	12/14/23 10:15			
	Eh	161	mV		1	12/14/23 10:15			
	Field Turbidity	38.5	NTU		1	12/14/23 10:15			
	2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B		528000	ug/L	830	1	12/20/23 18:25			
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville								
	Aluminum	<200	ug/L	200	1	12/20/23 08:13	12/20/23 18:25	7429-90-5	
Antimony	<60.0	ug/L	60.0	1	12/20/23 08:13	12/20/23 18:25	7440-36-0		
Arsenic	40.0	ug/L	10.0	1	12/20/23 08:13	12/20/23 18:25	7440-38-2		
Barium	307	ug/L	200	1	12/20/23 08:13	12/20/23 18:25	7440-39-3		
Beryllium	<5.0	ug/L	5.0	1	12/20/23 08:13	12/20/23 18:25	7440-41-7		
Boron	<50.0	ug/L	50.0	1	12/20/23 08:13	12/20/23 18:25	7440-42-8		
Cadmium	<2.5	ug/L	2.5	1	12/20/23 08:13	12/20/23 18:25	7440-43-9		
Calcium	147000	ug/L	200	1	12/20/23 08:13	12/20/23 18:25	7440-70-2		
Chromium	<10.0	ug/L	10.0	1	12/20/23 08:13	12/20/23 18:25	7440-47-3		
Cobalt	<50.0	ug/L	50.0	1	12/20/23 08:13	12/20/23 18:25	7440-48-4		
Copper	<25.0	ug/L	25.0	1	12/20/23 08:13	12/20/23 18:25	7440-50-8		
Iron	10900	ug/L	100	1	12/20/23 08:13	12/20/23 18:25	7439-89-6		
Lead	<5.0	ug/L	5.0	1	12/20/23 08:13	12/20/23 18:25	7439-92-1		
Magnesium	39000	ug/L	200	1	12/20/23 08:13	12/20/23 18:25	7439-95-4		
Manganese	570	ug/L	10.0	1	12/20/23 08:13	12/20/23 18:25	7439-96-5		
Nickel	<40.0	ug/L	40.0	1	12/20/23 08:13	12/20/23 18:25	7440-02-0		
Potassium	<5000	ug/L	5000	1	12/20/23 08:13	12/20/23 18:25	7440-09-7		
Selenium	<10.0	ug/L	10.0	1	12/20/23 08:13	12/20/23 18:25	7782-49-2		
Silver	<10.0	ug/L	10.0	1	12/20/23 08:13	12/20/23 18:25	7440-22-4		
Sodium	28100	ug/L	5000	1	12/20/23 08:13	12/20/23 18:25	7440-23-5		
Thallium	<10.0	ug/L	10.0	1	12/20/23 08:13	12/20/23 18:25	7440-28-0		
Tin	<50.0	ug/L	50.0	1	12/20/23 08:13	12/20/23 18:25	7440-31-5		
Vanadium	<50.0	ug/L	50.0	1	12/20/23 08:13	12/20/23 18:25	7440-62-2		
Zinc	<20.0	ug/L	20.0	1	12/20/23 08:13	12/20/23 18:25	7440-66-6		
180.1 Turbidity	Analytical Method: EPA 180.1 Pace Analytical Services - Melville								
	Turbidity	200	NTU	10.0	10	12/15/23 23:09			
2120B W Apparent Color	Analytical Method: SM22 2120B Pace Analytical Services - Melville								
	Apparent Color	400	units	50.0	10	12/15/23 23:09			
pH	6.8	Std. Units	0.10	10	12/15/23 23:09				

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-17S		Lab ID: 70281160009		Collected: 12/14/23 10:15		Received: 12/15/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	453	mg/L	1.0	1		12/26/23 20:33			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	698	mg/L	20.0	1		12/20/23 18:09			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	11.8	mg/L	10.0	1	12/28/23 05:02	12/28/23 07:15			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<2.0	mg/L	2.0	1	12/16/23 05:40	12/21/23 09:41			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<0.50	mg/L	0.50	1		01/04/24 20:27	24959-67-9		
Chloride	111	mg/L	4.0	2		01/08/24 18:24	16887-00-6		
Sulfate	17.7	mg/L	5.0	1		01/04/24 20:27	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	0.87	mg/L	0.10	1	12/28/23 03:54	12/28/23 15:18	7727-37-9		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	0.60	mg/L	0.10	1		12/27/23 12:02	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	3.3	mg/L	1.0	1		01/05/24 00:27	7440-44-0		
Total Organic Carbon	2.6	mg/L	1.0	1		01/05/24 00:27	7440-44-0		
Total Organic Carbon	2.4	mg/L	1.0	1		01/05/24 00:27	7440-44-0		
Total Organic Carbon	3.2	mg/L	1.0	1		01/05/24 00:27	7440-44-0		
Mean Total Organic Carbon	2.9	mg/L	1.0	1		01/05/24 00:27	7440-44-0		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-5D		Lab ID: 70281160010		Collected: 12/14/23 11:15		Received: 12/15/23 08:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method: Pace Analytical Services - Melville							
Field pH	8.30	Std. Units			1		12/14/23 11:15		
Field Temperature	6.9	deg C			1		12/14/23 11:15		
Field Specific Conductance	279.6	umhos/cm			1		12/14/23 11:15		
Eh	17	mV			1		12/14/23 11:15		
Field Turbidity	7.63	NTU			1		12/14/23 11:15		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	120000	ug/L		830	1		12/20/23 18:28		
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Aluminum	<200	ug/L		200	1	12/20/23 08:13	12/20/23 18:28	7429-90-5	M1
Antimony	<60.0	ug/L		60.0	1	12/20/23 08:13	12/20/23 18:28	7440-36-0	
Arsenic	<10.0	ug/L		10.0	1	12/20/23 08:13	12/20/23 18:28	7440-38-2	
Barium	<200	ug/L		200	1	12/20/23 08:13	12/20/23 18:28	7440-39-3	
Beryllium	<5.0	ug/L		5.0	1	12/20/23 08:13	12/20/23 18:28	7440-41-7	
Boron	<50.0	ug/L		50.0	1	12/20/23 08:13	12/20/23 18:28	7440-42-8	
Cadmium	<2.5	ug/L		2.5	1	12/20/23 08:13	12/20/23 18:28	7440-43-9	
Calcium	33600	ug/L		200	1	12/20/23 08:13	12/20/23 18:28	7440-70-2	
Chromium	<10.0	ug/L		10.0	1	12/20/23 08:13	12/20/23 18:28	7440-47-3	
Cobalt	<50.0	ug/L		50.0	1	12/20/23 08:13	12/20/23 18:28	7440-48-4	
Copper	<25.0	ug/L		25.0	1	12/20/23 08:13	12/20/23 18:28	7440-50-8	
Iron	105	ug/L		100	1	12/20/23 08:13	12/20/23 18:28	7439-89-6	
Lead	<5.0	ug/L		5.0	1	12/20/23 08:13	12/20/23 18:28	7439-92-1	
Magnesium	8790	ug/L		200	1	12/20/23 08:13	12/20/23 18:28	7439-95-4	
Manganese	24.8	ug/L		10.0	1	12/20/23 08:13	12/20/23 18:28	7439-96-5	
Nickel	<40.0	ug/L		40.0	1	12/20/23 08:13	12/20/23 18:28	7440-02-0	
Potassium	<5000	ug/L		5000	1	12/20/23 08:13	12/20/23 18:28	7440-09-7	
Selenium	<10.0	ug/L		10.0	1	12/20/23 08:13	12/20/23 18:28	7782-49-2	
Silver	<10.0	ug/L		10.0	1	12/20/23 08:13	12/20/23 18:28	7440-22-4	
Sodium	6980	ug/L		5000	1	12/20/23 08:13	12/20/23 18:28	7440-23-5	
Thallium	<10.0	ug/L		10.0	1	12/20/23 08:13	12/20/23 18:28	7440-28-0	
Tin	<50.0	ug/L		50.0	1	12/20/23 08:13	12/20/23 18:28	7440-31-5	
Vanadium	<50.0	ug/L		50.0	1	12/20/23 08:13	12/20/23 18:28	7440-62-2	
Zinc	<20.0	ug/L		20.0	1	12/20/23 08:13	12/20/23 18:28	7440-66-6	
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville							
Turbidity	4.4	NTU		1.0	1		12/15/23 23:11		
2120B W Apparent Color		Analytical Method: SM22 2120B Pace Analytical Services - Melville							
Apparent Color	15.0	units		5.0	1		12/15/23 23:11		
pH	8.1	Std. Units		0.10	1		12/15/23 23:11		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-5D		Lab ID: 70281160010	Collected: 12/14/23 11:15		Received: 12/15/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	123	mg/L	1.0	1		12/26/23 20:42		M1
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville						
Total Dissolved Solids	165	mg/L	10.0	1		12/20/23 18:29		D6
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville						
Chemical Oxygen Demand	11.8	mg/L	10.0	1	12/28/23 05:02	12/28/23 07:16		
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville						
BOD, 5 day	<2.0	mg/L	2.0	1	12/16/23 05:41	12/21/23 09:43		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville						
Bromide	<0.50	mg/L	0.50	1		01/04/24 20:40	24959-67-9	
Chloride	2.9	mg/L	2.0	1		01/04/24 20:40	16887-00-6	
Sulfate	19.5	mg/L	5.0	1		01/04/24 20:40	14808-79-8	M1
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville						
Nitrogen, Kjeldahl, Total	0.17	mg/L	0.10	1	12/28/23 03:54	12/28/23 15:18	7727-37-9	D6
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville						
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		12/27/23 12:03	7664-41-7	
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville						
Total Organic Carbon	1.4	mg/L	1.0	1		01/05/24 00:40	7440-44-0	
Total Organic Carbon	<1.0	mg/L	1.0	1		01/05/24 00:40	7440-44-0	M1
Total Organic Carbon	<1.0	mg/L	1.0	1		01/05/24 00:40	7440-44-0	M1
Total Organic Carbon	<1.0	mg/L	1.0	1		01/05/24 00:40	7440-44-0	M1
Mean Total Organic Carbon	<1.0	mg/L	1.0	1		01/05/24 00:40	7440-44-0	

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-5S		Lab ID: 70281160011		Collected: 12/14/23 11:00		Received: 12/15/23 08:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
		Pace Analytical Services - Melville							
Field pH	7.34	Std. Units			1		12/14/23 11:00		
Field Temperature	7.1	deg C			1		12/14/23 11:00		
Field Specific Conductance	1093	umhos/cm			1		12/14/23 11:00		
Eh	-27	mV			1		12/14/23 11:00		
Field Turbidity	28.2	NTU			1		12/14/23 11:00		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B							
		Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	460000	ug/L		830	1		12/20/23 18:47		
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
		Pace Analytical Services - Melville							
Aluminum	<200	ug/L	200		1	12/20/23 08:13	12/20/23 18:47	7429-90-5	
Antimony	<60.0	ug/L	60.0		1	12/20/23 08:13	12/20/23 18:47	7440-36-0	
Arsenic	17.6	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:47	7440-38-2	
Barium	<200	ug/L	200		1	12/20/23 08:13	12/20/23 18:47	7440-39-3	
Beryllium	<5.0	ug/L	5.0		1	12/20/23 08:13	12/20/23 18:47	7440-41-7	
Boron	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 18:47	7440-42-8	
Cadmium	<2.5	ug/L	2.5		1	12/20/23 08:13	12/20/23 18:47	7440-43-9	
Calcium	145000	ug/L	200		1	12/20/23 08:13	12/20/23 18:47	7440-70-2	
Chromium	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:47	7440-47-3	
Cobalt	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 18:47	7440-48-4	
Copper	<25.0	ug/L	25.0		1	12/20/23 08:13	12/20/23 18:47	7440-50-8	
Iron	7010	ug/L	100		1	12/20/23 08:13	12/20/23 18:47	7439-89-6	
Lead	<5.0	ug/L	5.0		1	12/20/23 08:13	12/20/23 18:47	7439-92-1	
Magnesium	23700	ug/L	200		1	12/20/23 08:13	12/20/23 18:47	7439-95-4	
Manganese	1680	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:47	7439-96-5	
Nickel	<40.0	ug/L	40.0		1	12/20/23 08:13	12/20/23 18:47	7440-02-0	
Potassium	<5000	ug/L	5000		1	12/20/23 08:13	12/20/23 18:47	7440-09-7	
Selenium	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:47	7782-49-2	
Silver	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:47	7440-22-4	
Sodium	42800	ug/L	5000		1	12/20/23 08:13	12/20/23 18:47	7440-23-5	
Thallium	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:47	7440-28-0	
Tin	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 18:47	7440-31-5	
Vanadium	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 18:47	7440-62-2	
Zinc	<20.0	ug/L	20.0		1	12/20/23 08:13	12/20/23 18:47	7440-66-6	
180.1 Turbidity		Analytical Method: EPA 180.1							
		Pace Analytical Services - Melville							
Turbidity	85.0	NTU		5.0	5		12/15/23 23:14		
2120B W Apparent Color		Analytical Method: SM22 2120B							
		Pace Analytical Services - Melville							
Apparent Color	230	units		25.0	5		12/15/23 23:14		
pH	6.8	Std. Units		0.10	5		12/15/23 23:14		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-5S		Lab ID: 70281160011		Collected: 12/14/23 11:00		Received: 12/15/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	441	mg/L	1.0	1		12/27/23 13:12			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	630	mg/L	20.0	1		12/20/23 18:32			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	<10.0	mg/L	10.0	1	12/28/23 05:02	12/28/23 07:17			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<2.0	mg/L	2.0	1	12/16/23 05:41	12/21/23 09:48			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<0.50	mg/L	0.50	1		01/04/24 21:17	24959-67-9		
Chloride	91.3	mg/L	2.0	1		01/04/24 21:17	16887-00-6		
Sulfate	20.3	mg/L	5.0	1		01/04/24 21:17	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	0.30	mg/L	0.10	1	12/28/23 03:54	12/28/23 15:23	7727-37-9		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	0.17	mg/L	0.10	1		12/27/23 12:07	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	1.3	mg/L	1.0	1		01/05/24 01:30	7440-44-0		
Total Organic Carbon	1.2	mg/L	1.0	1		01/05/24 01:30	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		01/05/24 01:30	7440-44-0		
Total Organic Carbon	1.4	mg/L	1.0	1		01/05/24 01:30	7440-44-0		
Mean Total Organic Carbon	1.2	mg/L	1.0	1		01/05/24 01:30	7440-44-0		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-27D		Lab ID: 70281160012		Collected: 12/14/23 12:25		Received: 12/15/23 08:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
		Pace Analytical Services - Melville							
Field pH	7.91	Std. Units			1		12/14/23 12:25		
Field Temperature	8.3	deg C			1		12/14/23 12:25		
Field Specific Conductance	393.8	umhos/cm			1		12/14/23 12:25		
Eh	125	mV			1		12/14/23 12:25		
Field Turbidity	15	NTU			1		12/14/23 12:25		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B							
		Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	94600	ug/L		830	1		12/20/23 18:50		
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
		Pace Analytical Services - Melville							
Aluminum	<200	ug/L	200		1	12/20/23 08:13	12/20/23 18:50	7429-90-5	
Antimony	<60.0	ug/L	60.0		1	12/20/23 08:13	12/20/23 18:50	7440-36-0	
Arsenic	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:50	7440-38-2	
Barium	<200	ug/L	200		1	12/20/23 08:13	12/20/23 18:50	7440-39-3	
Beryllium	<5.0	ug/L	5.0		1	12/20/23 08:13	12/20/23 18:50	7440-41-7	
Boron	101	ug/L	50.0		1	12/20/23 08:13	12/20/23 18:50	7440-42-8	
Cadmium	<2.5	ug/L	2.5		1	12/20/23 08:13	12/20/23 18:50	7440-43-9	
Calcium	22400	ug/L	200		1	12/20/23 08:13	12/20/23 18:50	7440-70-2	
Chromium	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:50	7440-47-3	
Cobalt	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 18:50	7440-48-4	
Copper	<25.0	ug/L	25.0		1	12/20/23 08:13	12/20/23 18:50	7440-50-8	
Iron	338	ug/L	100		1	12/20/23 08:13	12/20/23 18:50	7439-89-6	
Lead	<5.0	ug/L	5.0		1	12/20/23 08:13	12/20/23 18:50	7439-92-1	
Magnesium	9380	ug/L	200		1	12/20/23 08:13	12/20/23 18:50	7439-95-4	
Manganese	155	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:50	7439-96-5	
Nickel	<40.0	ug/L	40.0		1	12/20/23 08:13	12/20/23 18:50	7440-02-0	
Potassium	<5000	ug/L	5000		1	12/20/23 08:13	12/20/23 18:50	7440-09-7	
Selenium	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:50	7782-49-2	
Silver	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:50	7440-22-4	
Sodium	47000	ug/L	5000		1	12/20/23 08:13	12/20/23 18:50	7440-23-5	
Thallium	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:50	7440-28-0	
Tin	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 18:50	7440-31-5	
Vanadium	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 18:50	7440-62-2	
Zinc	<20.0	ug/L	20.0		1	12/20/23 08:13	12/20/23 18:50	7440-66-6	
180.1 Turbidity		Analytical Method: EPA 180.1							
		Pace Analytical Services - Melville							
Turbidity	7.4	NTU		1.0	1		12/15/23 23:16		
2120B W Apparent Color		Analytical Method: SM22 2120B							
		Pace Analytical Services - Melville							
Apparent Color	15.0	units		5.0	1		12/15/23 23:16		
pH	7.9	Std. Units		0.10	1		12/15/23 23:16		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-27D		Lab ID: 70281160012		Collected: 12/14/23 12:25		Received: 12/15/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	178	mg/L	1.0	1		12/27/23 13:22			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	235	mg/L	10.0	1		12/20/23 18:32			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	<10.0	mg/L	10.0	1	12/28/23 05:02	12/28/23 07:17			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<2.0	mg/L	2.0	1	12/16/23 05:41	12/21/23 09:50			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<0.50	mg/L	0.50	1		01/04/24 21:30	24959-67-9		
Chloride	<2.0	mg/L	2.0	1		01/04/24 21:30	16887-00-6		
Sulfate	35.4	mg/L	5.0	1		01/04/24 21:30	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	0.32	mg/L	0.10	1	12/28/23 03:54	12/28/23 15:24	7727-37-9		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		12/27/23 12:08	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	<1.0	mg/L	1.0	1		01/05/24 02:07	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		01/05/24 02:07	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		01/05/24 02:07	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		01/05/24 02:07	7440-44-0		
Mean Total Organic Carbon	<1.0	mg/L	1.0	1		01/05/24 02:07	7440-44-0		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-27S		Lab ID: 70281160013		Collected: 12/14/23 12:15		Received: 12/15/23 08:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
		Pace Analytical Services - Melville							
Field pH	6.89	Std. Units			1		12/14/23 12:15		
Field Temperature	9.4	deg C			1		12/14/23 12:15		
Field Specific Conductance	1514	umhos/cm			1		12/14/23 12:15		
Eh	89	mV			1		12/14/23 12:15		
Field Turbidity	6.71	NTU			1		12/14/23 12:15		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B							
		Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	681000	ug/L		830	1		12/20/23 18:53		
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
		Pace Analytical Services - Melville							
Aluminum	<200	ug/L	200		1	12/20/23 08:13	12/20/23 18:53	7429-90-5	
Antimony	<60.0	ug/L	60.0		1	12/20/23 08:13	12/20/23 18:53	7440-36-0	
Arsenic	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:53	7440-38-2	
Barium	<200	ug/L	200		1	12/20/23 08:13	12/20/23 18:53	7440-39-3	
Beryllium	<5.0	ug/L	5.0		1	12/20/23 08:13	12/20/23 18:53	7440-41-7	
Boron	73.1	ug/L	50.0		1	12/20/23 08:13	12/20/23 18:53	7440-42-8	
Cadmium	<2.5	ug/L	2.5		1	12/20/23 08:13	12/20/23 18:53	7440-43-9	
Calcium	212000	ug/L	200		1	12/20/23 08:13	12/20/23 18:53	7440-70-2	
Chromium	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:53	7440-47-3	
Cobalt	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 18:53	7440-48-4	
Copper	<25.0	ug/L	25.0		1	12/20/23 08:13	12/20/23 18:53	7440-50-8	
Iron	2560	ug/L	100		1	12/20/23 08:13	12/20/23 18:53	7439-89-6	
Lead	<5.0	ug/L	5.0		1	12/20/23 08:13	12/20/23 18:53	7439-92-1	
Magnesium	36900	ug/L	200		1	12/20/23 08:13	12/20/23 18:53	7439-95-4	
Manganese	1670	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:53	7439-96-5	
Nickel	<40.0	ug/L	40.0		1	12/20/23 08:13	12/20/23 18:53	7440-02-0	
Potassium	6660	ug/L	5000		1	12/20/23 08:13	12/20/23 18:53	7440-09-7	
Selenium	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:53	7782-49-2	
Silver	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:53	7440-22-4	
Sodium	54000	ug/L	5000		1	12/20/23 08:13	12/20/23 18:53	7440-23-5	
Thallium	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 18:53	7440-28-0	
Tin	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 18:53	7440-31-5	
Vanadium	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 18:53	7440-62-2	
Zinc	<20.0	ug/L	20.0		1	12/20/23 08:13	12/20/23 18:53	7440-66-6	
180.1 Turbidity		Analytical Method: EPA 180.1							
		Pace Analytical Services - Melville							
Turbidity	18.0	NTU		1.0	1		12/15/23 23:18		
2120B W Apparent Color		Analytical Method: SM22 2120B							
		Pace Analytical Services - Melville							
Apparent Color	22.0	units		5.0	1		12/15/23 23:17		
pH	6.7	Std. Units		0.10	1		12/15/23 23:17		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-27S		Lab ID: 70281160013		Collected: 12/14/23 12:15		Received: 12/15/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	545	mg/L	1.0	1		12/27/23 13:45			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	984	mg/L	20.0	1		12/20/23 18:33			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	24.8	mg/L	10.0	1	12/28/23 05:02	12/28/23 07:17			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<2.0	mg/L	2.0	1	12/16/23 05:41	12/21/23 09:52			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<1.0	mg/L	1.0	2		01/08/24 18:36	24959-67-9		
Chloride	128	mg/L	4.0	2		01/08/24 18:36	16887-00-6		
Sulfate	125	mg/L	10.0	2		01/08/24 18:36	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	1.5	mg/L	0.10	1	12/28/23 03:54	12/28/23 15:24	7727-37-9		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	1.2	mg/L	0.10	1		12/27/23 12:09	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	4.2	mg/L	1.0	1		01/05/24 02:21	7440-44-0		
Total Organic Carbon	3.7	mg/L	1.0	1		01/05/24 02:21	7440-44-0		
Total Organic Carbon	2.5	mg/L	1.0	1		01/05/24 02:21	7440-44-0		
Total Organic Carbon	4.2	mg/L	1.0	1		01/05/24 02:21	7440-44-0		
Mean Total Organic Carbon	3.6	mg/L	1.0	1		01/05/24 02:21	7440-44-0		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-9D		Lab ID: 70281160014		Collected: 12/14/23 13:00		Received: 12/15/23 08:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method: Pace Analytical Services - Melville							
Field pH	7.72	Std. Units			1		12/14/23 13:00		
Field Temperature	9.3	deg C			1		12/14/23 13:00		
Field Specific Conductance	906.7	umhos/cm			1		12/14/23 13:00		
Eh	-7	mV			1		12/14/23 13:00		
Field Turbidity	3.83	NTU			1		12/14/23 13:00		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	164000	ug/L		830	1		12/20/23 18:55		
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Aluminum	<200	ug/L		200	1	12/20/23 08:13	12/20/23 18:55	7429-90-5	
Antimony	<60.0	ug/L		60.0	1	12/20/23 08:13	12/20/23 18:55	7440-36-0	
Arsenic	<10.0	ug/L		10.0	1	12/20/23 08:13	12/20/23 18:55	7440-38-2	
Barium	<200	ug/L		200	1	12/20/23 08:13	12/20/23 18:55	7440-39-3	
Beryllium	<5.0	ug/L		5.0	1	12/20/23 08:13	12/20/23 18:55	7440-41-7	
Boron	<50.0	ug/L		50.0	1	12/20/23 08:13	12/20/23 18:55	7440-42-8	
Cadmium	<2.5	ug/L		2.5	1	12/20/23 08:13	12/20/23 18:55	7440-43-9	
Calcium	32500	ug/L		200	1	12/20/23 08:13	12/20/23 18:55	7440-70-2	
Chromium	<10.0	ug/L		10.0	1	12/20/23 08:13	12/20/23 18:55	7440-47-3	
Cobalt	<50.0	ug/L		50.0	1	12/20/23 08:13	12/20/23 18:55	7440-48-4	
Copper	<25.0	ug/L		25.0	1	12/20/23 08:13	12/20/23 18:55	7440-50-8	
Iron	<100	ug/L		100	1	12/20/23 08:13	12/20/23 18:55	7439-89-6	
Lead	<5.0	ug/L		5.0	1	12/20/23 08:13	12/20/23 18:55	7439-92-1	
Magnesium	20000	ug/L		200	1	12/20/23 08:13	12/20/23 18:55	7439-95-4	
Manganese	<10.0	ug/L		10.0	1	12/20/23 08:13	12/20/23 18:55	7439-96-5	
Nickel	<40.0	ug/L		40.0	1	12/20/23 08:13	12/20/23 18:55	7440-02-0	
Potassium	<5000	ug/L		5000	1	12/20/23 08:13	12/20/23 18:55	7440-09-7	
Selenium	<10.0	ug/L		10.0	1	12/20/23 08:13	12/20/23 18:55	7782-49-2	
Silver	<10.0	ug/L		10.0	1	12/20/23 08:13	12/20/23 18:55	7440-22-4	
Sodium	114000	ug/L		5000	1	12/20/23 08:13	12/20/23 18:55	7440-23-5	
Thallium	<10.0	ug/L		10.0	1	12/20/23 08:13	12/20/23 18:55	7440-28-0	
Tin	<50.0	ug/L		50.0	1	12/20/23 08:13	12/20/23 18:55	7440-31-5	
Vanadium	<50.0	ug/L		50.0	1	12/20/23 08:13	12/20/23 18:55	7440-62-2	
Zinc	<20.0	ug/L		20.0	1	12/20/23 08:13	12/20/23 18:55	7440-66-6	
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville							
Turbidity	6.3	NTU		1.0	1		12/15/23 23:22		
2120B W Apparent Color		Analytical Method: SM22 2120B Pace Analytical Services - Melville							
Apparent Color	15.0	units		5.0	1		12/15/23 23:21		
pH	7.4	Std. Units		0.10	1		12/15/23 23:21		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-9D		Lab ID: 70281160014		Collected: 12/14/23 13:00		Received: 12/15/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	157	mg/L	1.0	1		12/27/23 13:55			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	520	mg/L	10.0	1		12/20/23 18:46			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	16.2	mg/L	10.0	1	12/28/23 05:02	12/28/23 07:17			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<2.0	mg/L	2.0	1	12/16/23 05:43	12/21/23 09:55			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	1.8	mg/L	1.0	2		01/08/24 18:49	24959-67-9		
Chloride	131	mg/L	4.0	2		01/08/24 18:49	16887-00-6		
Sulfate	110	mg/L	10.0	2		01/08/24 18:49	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	0.38	mg/L	0.10	1	12/28/23 03:54	12/28/23 15:25	7727-37-9		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		12/27/23 12:10	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	<1.0	mg/L	1.0	1		01/05/24 02:45	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		01/05/24 02:45	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		01/05/24 02:45	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		01/05/24 02:45	7440-44-0		
Mean Total Organic Carbon	<1.0	mg/L	1.0	1		01/05/24 02:45	7440-44-0		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-9S		Lab ID: 70281160015		Collected: 12/14/23 12:45		Received: 12/15/23 08:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
		Pace Analytical Services - Melville							
Field pH	7.13	Std. Units			1		12/14/23 13:00		
Field Temperature	7.8	deg C			1		12/14/23 13:00		
Field Specific Conductance	1279	umhos/cm			1		12/14/23 13:00		
Eh	-23	mV			1		12/14/23 13:00		
Field Turbidity	41.1	NTU			1		12/14/23 13:00		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B							
		Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	519000	ug/L		830	1		12/20/23 17:22		
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
		Pace Analytical Services - Melville							
Aluminum	<200	ug/L	200		1	12/20/23 08:13	12/20/23 17:22	7429-90-5	
Antimony	<60.0	ug/L	60.0		1	12/20/23 08:13	12/20/23 17:22	7440-36-0	
Arsenic	51.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 17:22	7440-38-2	
Barium	252	ug/L	200		1	12/20/23 08:13	12/20/23 17:22	7440-39-3	
Beryllium	<5.0	ug/L	5.0		1	12/20/23 08:13	12/20/23 17:22	7440-41-7	
Boron	81.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 17:22	7440-42-8	
Cadmium	<2.5	ug/L	2.5		1	12/20/23 08:13	12/20/23 17:22	7440-43-9	
Calcium	170000	ug/L	200		1	12/20/23 08:13	12/20/23 17:22	7440-70-2	
Chromium	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 17:22	7440-47-3	
Cobalt	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 17:22	7440-48-4	
Copper	<25.0	ug/L	25.0		1	12/20/23 08:13	12/20/23 17:22	7440-50-8	
Iron	17000	ug/L	100		1	12/20/23 08:13	12/20/23 17:22	7439-89-6	
Lead	<5.0	ug/L	5.0		1	12/20/23 08:13	12/20/23 17:22	7439-92-1	
Magnesium	23000	ug/L	200		1	12/20/23 08:13	12/20/23 17:22	7439-95-4	
Manganese	1010	ug/L	10.0		1	12/20/23 08:13	12/20/23 17:22	7439-96-5	
Nickel	<40.0	ug/L	40.0		1	12/20/23 08:13	12/20/23 17:22	7440-02-0	
Potassium	<5000	ug/L	5000		1	12/20/23 08:13	12/20/23 17:22	7440-09-7	
Selenium	11.4	ug/L	10.0		1	12/20/23 08:13	12/20/23 17:22	7782-49-2	
Silver	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 17:22	7440-22-4	
Sodium	62200	ug/L	5000		1	12/20/23 08:13	12/20/23 17:22	7440-23-5	
Thallium	<10.0	ug/L	10.0		1	12/20/23 08:13	12/20/23 17:22	7440-28-0	
Tin	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 17:22	7440-31-5	
Vanadium	<50.0	ug/L	50.0		1	12/20/23 08:13	12/20/23 17:22	7440-62-2	
Zinc	<20.0	ug/L	20.0		1	12/20/23 08:13	12/20/23 17:22	7440-66-6	
180.1 Turbidity		Analytical Method: EPA 180.1							
		Pace Analytical Services - Melville							
Turbidity	25.0	NTU		1.0	1		12/15/23 23:23		
2120B W Apparent Color		Analytical Method: SM22 2120B							
		Pace Analytical Services - Melville							
Apparent Color	230	units		25.0	5		12/15/23 23:24		
pH	6.7	Std. Units		0.10	5		12/15/23 23:24		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: MW-9S		Lab ID: 70281160015		Collected: 12/14/23 12:45		Received: 12/15/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	492	mg/L	1.0	1		12/27/23 14:16			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	1030	mg/L	20.0	1		12/20/23 18:47			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	20.5	mg/L	10.0	1	12/28/23 05:02	12/28/23 07:18			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<2.0	mg/L	2.0	1	12/16/23 05:46	12/21/23 10:16			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<0.50	mg/L	0.50	1		01/04/24 22:07	24959-67-9		
Chloride	121	mg/L	4.0	2		01/08/24 19:01	16887-00-6		
Sulfate	31.7	mg/L	5.0	1		01/04/24 22:07	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	1.3	mg/L	0.10	1	12/28/23 03:54	12/28/23 15:26	7727-37-9		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	1.0	mg/L	0.10	1		12/27/23 12:14	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	5.3	mg/L	1.0	1		01/05/24 02:59	7440-44-0		
Total Organic Carbon	5.5	mg/L	1.0	1		01/05/24 02:59	7440-44-0		
Total Organic Carbon	2.5	mg/L	1.0	1		01/05/24 02:59	7440-44-0		
Total Organic Carbon	5.3	mg/L	1.0	1		01/05/24 02:59	7440-44-0		
Mean Total Organic Carbon	4.7	mg/L	1.0	1		01/05/24 02:59	7440-44-0		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: FB-01		Lab ID: 70281160016		Collected: 12/14/23 13:40		Received: 12/15/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B)	<830	ug/L	830	1		12/20/23 17:25			
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Aluminum	<200	ug/L	200	1	12/20/23 08:13	12/20/23 17:25	7429-90-5		
Antimony	<60.0	ug/L	60.0	1	12/20/23 08:13	12/20/23 17:25	7440-36-0		
Arsenic	<10.0	ug/L	10.0	1	12/20/23 08:13	12/20/23 17:25	7440-38-2		
Barium	<200	ug/L	200	1	12/20/23 08:13	12/20/23 17:25	7440-39-3		
Beryllium	<5.0	ug/L	5.0	1	12/20/23 08:13	12/20/23 17:25	7440-41-7		
Boron	<50.0	ug/L	50.0	1	12/20/23 08:13	12/20/23 17:25	7440-42-8		
Cadmium	<2.5	ug/L	2.5	1	12/20/23 08:13	12/20/23 17:25	7440-43-9		
Calcium	<200	ug/L	200	1	12/20/23 08:13	12/20/23 17:25	7440-70-2		
Chromium	<10.0	ug/L	10.0	1	12/20/23 08:13	12/20/23 17:25	7440-47-3		
Cobalt	<50.0	ug/L	50.0	1	12/20/23 08:13	12/20/23 17:25	7440-48-4		
Copper	<25.0	ug/L	25.0	1	12/20/23 08:13	12/20/23 17:25	7440-50-8		
Iron	<100	ug/L	100	1	12/20/23 08:13	12/20/23 17:25	7439-89-6		
Lead	<5.0	ug/L	5.0	1	12/20/23 08:13	12/20/23 17:25	7439-92-1		
Magnesium	<200	ug/L	200	1	12/20/23 08:13	12/20/23 17:25	7439-95-4		
Manganese	<10.0	ug/L	10.0	1	12/20/23 08:13	12/20/23 17:25	7439-96-5		
Nickel	<40.0	ug/L	40.0	1	12/20/23 08:13	12/20/23 17:25	7440-02-0		
Potassium	<5000	ug/L	5000	1	12/20/23 08:13	12/20/23 17:25	7440-09-7		
Selenium	<10.0	ug/L	10.0	1	12/20/23 08:13	12/20/23 17:25	7782-49-2		
Silver	<10.0	ug/L	10.0	1	12/20/23 08:13	12/20/23 17:25	7440-22-4		
Sodium	<5000	ug/L	5000	1	12/20/23 08:13	12/20/23 17:25	7440-23-5		
Thallium	<10.0	ug/L	10.0	1	12/20/23 08:13	12/20/23 17:25	7440-28-0		
Tin	<50.0	ug/L	50.0	1	12/20/23 08:13	12/20/23 17:25	7440-31-5		
Vanadium	<50.0	ug/L	50.0	1	12/20/23 08:13	12/20/23 17:25	7440-62-2		
Zinc	<20.0	ug/L	20.0	1	12/20/23 08:13	12/20/23 17:25	7440-66-6		
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville							
Turbidity	1.5	NTU	1.0	1		12/15/23 23:26			
2120B W Apparent Color		Analytical Method: SM22 2120B Pace Analytical Services - Melville							
Apparent Color	10.0	units	5.0	1		12/15/23 23:25			
pH	7.2	Std. Units	0.10	1		12/15/23 23:25			
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	<1.0	mg/L	1.0	1		12/27/23 14:21			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	<10.0	mg/L	10.0	1		12/20/23 18:48			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Sample: FB-01		Lab ID: 70281160016		Collected: 12/14/23 13:40		Received: 12/15/23 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	<10.0	mg/L	10.0	1	12/28/23 05:02	12/28/23 07:19			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<2.0	mg/L	2.0	1	12/16/23 05:47	12/21/23 10:18			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<0.50	mg/L	0.50	1		01/04/24 22:19	24959-67-9		
Chloride	<2.0	mg/L	2.0	1		01/04/24 22:19	16887-00-6		
Sulfate	<5.0	mg/L	5.0	1		01/04/24 22:19	14808-79-8		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		12/27/23 12:15	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	<1.0	mg/L	1.0	1		01/09/24 10:30	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		01/09/24 10:30	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		01/09/24 10:30	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		01/09/24 10:30	7440-44-0		
Mean Total Organic Carbon	<1.0	mg/L	1.0	1		01/09/24 10:30	7440-44-0		

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

QC Batch:	331402	Analysis Method:	EPA 6010C
QC Batch Method:	EPA 3005A	Analysis Description:	6010 MET Water
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70281160001, 70281160002, 70281160003, 70281160004, 70281160005, 70281160006, 70281160007, 70281160008, 70281160009, 70281160010, 70281160011, 70281160012, 70281160013, 70281160014		

METHOD BLANK: 1698457

Matrix: Water

Associated Lab Samples: 70281160001, 70281160002, 70281160003, 70281160004, 70281160005, 70281160006, 70281160007, 70281160008, 70281160009, 70281160010, 70281160011, 70281160012, 70281160013, 70281160014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	12/20/23 17:33	
Antimony	ug/L	<60.0	60.0	12/20/23 17:33	
Arsenic	ug/L	<10.0	10.0	12/20/23 17:33	
Barium	ug/L	<200	200	12/20/23 17:33	
Beryllium	ug/L	<5.0	5.0	12/20/23 17:33	
Boron	ug/L	<50.0	50.0	12/20/23 17:33	
Cadmium	ug/L	<2.5	2.5	12/20/23 17:33	
Calcium	ug/L	<200	200	12/20/23 17:33	
Chromium	ug/L	<10.0	10.0	12/20/23 17:33	
Cobalt	ug/L	<50.0	50.0	12/20/23 17:33	
Copper	ug/L	<25.0	25.0	12/20/23 17:33	
Iron	ug/L	<100	100	12/20/23 17:33	
Lead	ug/L	<5.0	5.0	12/20/23 17:33	
Magnesium	ug/L	<200	200	12/20/23 17:33	
Manganese	ug/L	<10.0	10.0	12/20/23 17:33	
Nickel	ug/L	<40.0	40.0	12/20/23 17:33	
Potassium	ug/L	<5000	5000	12/20/23 17:33	
Selenium	ug/L	<10.0	10.0	12/20/23 17:33	
Silver	ug/L	<10.0	10.0	12/20/23 17:33	
Sodium	ug/L	<5000	5000	12/20/23 17:33	
Thallium	ug/L	<10.0	10.0	12/20/23 17:33	
Tin	ug/L	<50.0	50.0	12/20/23 17:33	
Vanadium	ug/L	<50.0	50.0	12/20/23 17:33	
Zinc	ug/L	<20.0	20.0	12/20/23 17:33	

LABORATORY CONTROL SAMPLE: 1698458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	25000	24600	98	80-120	
Antimony	ug/L	1000	987	99	80-120	
Arsenic	ug/L	500	497	99	80-120	
Barium	ug/L	500	495	99	80-120	
Beryllium	ug/L	500	508	102	80-120	
Boron	ug/L	1000	983	98	80-120	
Cadmium	ug/L	500	503	101	80-120	
Calcium	ug/L	25000	24700	99	80-120	
Chromium	ug/L	500	502	100	80-120	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

LABORATORY CONTROL SAMPLE: 1698458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cobalt	ug/L	500	503	101	80-120	
Copper	ug/L	500	507	101	80-120	
Iron	ug/L	12500	12800	102	80-120	
Lead	ug/L	500	511	102	80-120	
Magnesium	ug/L	25000	24700	99	80-120	
Manganese	ug/L	500	512	102	80-120	
Nickel	ug/L	500	507	101	80-120	
Potassium	ug/L	25000	24400	98	80-120	
Selenium	ug/L	500	493	99	80-120	
Silver	ug/L	250	246	98	80-120	
Sodium	ug/L	25000	25200	101	80-120	
Thallium	ug/L	250	257	103	80-120	
Tin	ug/L	1000	1010	101	80-120	
Vanadium	ug/L	500	500	100	80-120	
Zinc	ug/L	500	501	100	80-120	

MATRIX SPIKE SAMPLE: 1698460

Parameter	Units	70281160010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	12500	12200	97	75-125	
Antimony	ug/L	<60.0	1000	969	97	75-125	
Arsenic	ug/L	<10.0	500	482	96	75-125	
Barium	ug/L	<200	500	510	96	75-125	
Beryllium	ug/L	<5.0	500	506	101	75-125	
Boron	ug/L	<50.0	1000	981	96	75-125	
Cadmium	ug/L	<2.5	500	488	98	75-125	
Calcium	ug/L	33600	12500	45700	97	75-125	
Chromium	ug/L	<10.0	500	496	99	75-125	
Cobalt	ug/L	<50.0	500	487	97	75-125	
Copper	ug/L	<25.0	500	490	98	75-125	
Iron	ug/L	105	5000	5090	100	75-125	
Lead	ug/L	<5.0	500	502	100	75-125	
Magnesium	ug/L	8790	12500	21100	98	75-125	
Manganese	ug/L	24.8	500	529	101	75-125	
Nickel	ug/L	<40.0	500	482	94	75-125	
Potassium	ug/L	<5000	12500	16300	97	75-125	
Selenium	ug/L	<10.0	500	468	94	75-125	
Silver	ug/L	<10.0	250	174	70	75-125 M1	
Sodium	ug/L	6980	12500	19800	103	75-125	
Thallium	ug/L	<10.0	250	248	99	75-125	
Tin	ug/L	<50.0	1000	983	98	75-125	
Vanadium	ug/L	<50.0	500	489	98	75-125	
Zinc	ug/L	<20.0	500	486	97	75-125	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

SAMPLE DUPLICATE: 1698459

Parameter	Units	70281160010 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	<200		
Antimony	ug/L	<60.0	<60.0		
Arsenic	ug/L	<10.0	<10.0		
Barium	ug/L	<200	<200		
Beryllium	ug/L	<5.0	<5.0		
Boron	ug/L	<50.0	<50.0		
Cadmium	ug/L	<2.5	<2.5		
Calcium	ug/L	33600	34100	1	
Chromium	ug/L	<10.0	<10.0		
Cobalt	ug/L	<50.0	<50.0		
Copper	ug/L	<25.0	<25.0		
Iron	ug/L	105	103	2	
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	8790	8940	2	
Manganese	ug/L	24.8	25.2	2	
Nickel	ug/L	<40.0	<40.0		
Potassium	ug/L	<5000	<5000		
Selenium	ug/L	<10.0	<10.0		
Silver	ug/L	<10.0	<10.0		
Sodium	ug/L	6980	7190	3	
Thallium	ug/L	<10.0	<10.0		
Tin	ug/L	<50.0	<50.0		
Vanadium	ug/L	<50.0	<50.0		
Zinc	ug/L	<20.0	<20.0		

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

QC Batch: 331403

Analysis Method: EPA 6010C

QC Batch Method: EPA 3005A

Analysis Description: 6010 MET Water

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70281160015, 70281160016

METHOD BLANK: 1698461

Matrix: Water

Associated Lab Samples: 70281160015, 70281160016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	12/20/23 17:14	
Antimony	ug/L	<60.0	60.0	12/20/23 17:14	
Arsenic	ug/L	<10.0	10.0	12/20/23 17:14	
Barium	ug/L	<200	200	12/20/23 17:14	
Beryllium	ug/L	<5.0	5.0	12/20/23 17:14	
Boron	ug/L	<50.0	50.0	12/20/23 17:14	
Cadmium	ug/L	<2.5	2.5	12/20/23 17:14	
Calcium	ug/L	<200	200	12/20/23 17:14	
Chromium	ug/L	<10.0	10.0	12/20/23 17:14	
Cobalt	ug/L	<50.0	50.0	12/20/23 17:14	
Copper	ug/L	<25.0	25.0	12/20/23 17:14	
Iron	ug/L	<100	100	12/20/23 17:14	
Lead	ug/L	<5.0	5.0	12/20/23 17:14	
Magnesium	ug/L	<200	200	12/20/23 17:14	
Manganese	ug/L	<10.0	10.0	12/20/23 17:14	
Nickel	ug/L	<40.0	40.0	12/20/23 17:14	
Potassium	ug/L	<5000	5000	12/20/23 17:14	
Selenium	ug/L	<10.0	10.0	12/20/23 17:14	
Silver	ug/L	<10.0	10.0	12/20/23 17:14	
Sodium	ug/L	<5000	5000	12/20/23 17:14	
Thallium	ug/L	<10.0	10.0	12/20/23 17:14	
Tin	ug/L	<50.0	50.0	12/20/23 17:14	
Vanadium	ug/L	<50.0	50.0	12/20/23 17:14	
Zinc	ug/L	<20.0	20.0	12/20/23 17:14	

LABORATORY CONTROL SAMPLE & LCSD: 1698462

1698463

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aluminum	ug/L	25000	24700	24700	99	99	80-120	0	20	
Antimony	ug/L	1000	987	988	99	99	80-120	0	20	
Arsenic	ug/L	500	495	499	99	100	80-120	1	20	
Barium	ug/L	500	496	496	99	99	80-120	0	20	
Beryllium	ug/L	500	508	509	102	102	80-120	0	20	
Boron	ug/L	1000	983	987	98	99	80-120	0	20	
Cadmium	ug/L	500	504	503	101	101	80-120	0	20	
Calcium	ug/L	25000	24800	24800	99	99	80-120	0	20	
Chromium	ug/L	500	503	503	101	101	80-120	0	20	
Cobalt	ug/L	500	503	504	101	101	80-120	0	20	
Copper	ug/L	500	508	507	102	101	80-120	0	20	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

LABORATORY CONTROL SAMPLE & LCSD: 1698462			1698463							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Iron	ug/L	12500	12800	12800	102	102	80-120	0	20	
Lead	ug/L	500	512	512	102	102	80-120	0	20	
Magnesium	ug/L	25000	24800	24800	99	99	80-120	0	20	
Manganese	ug/L	500	513	514	103	103	80-120	0	20	
Nickel	ug/L	500	508	508	102	102	80-120	0	20	
Potassium	ug/L	25000	24300	24400	97	98	80-120	0	20	
Selenium	ug/L	500	486	501	97	100	80-120	3	20	
Silver	ug/L	250	247	247	99	99	80-120	0	20	
Sodium	ug/L	25000	25200	25200	101	101	80-120	0	20	
Thallium	ug/L	250	260	259	104	104	80-120	0	20	
Tin	ug/L	1000	1010	1010	101	101	80-120	0	20	
Vanadium	ug/L	500	501	501	100	100	80-120	0	20	
Zinc	ug/L	500	502	501	100	100	80-120	0	20	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

QC Batch:	331036	Analysis Method:	EPA 180.1
QC Batch Method:	EPA 180.1	Analysis Description:	180.1 Turbidity
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70281160001, 70281160002, 70281160003, 70281160004, 70281160005, 70281160006, 70281160007, 70281160008, 70281160009, 70281160010, 70281160011, 70281160012, 70281160013, 70281160014, 70281160015, 70281160016		

METHOD BLANK:	1695791	Matrix:	Water
Associated Lab Samples:	70281160001, 70281160002, 70281160003, 70281160004, 70281160005, 70281160006, 70281160007, 70281160008, 70281160009, 70281160010, 70281160011, 70281160012, 70281160013, 70281160014, 70281160015, 70281160016		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Turbidity	NTU	<1.0	1.0	12/15/23 22:20	

LABORATORY CONTROL SAMPLE:	1695792					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	10	9.2	92	90-110	

SAMPLE DUPLICATE: 1695794					
		70281160010	Dup		
Parameter	Units	Result	Result	RPD	Qualifiers
Turbidity	NTU	4.4	4.1	7	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

QC Batch:	331035	Analysis Method:	SM22 2120B
QC Batch Method:	SM22 2120B	Analysis Description:	2120B Color
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70281160001, 70281160002, 70281160003, 70281160004, 70281160005, 70281160006, 70281160007, 70281160008, 70281160009, 70281160010, 70281160011, 70281160012, 70281160013, 70281160014, 70281160015, 70281160016		

METHOD BLANK:	1695787	Matrix:	Water
Associated Lab Samples:	70281160001, 70281160002, 70281160003, 70281160004, 70281160005, 70281160006, 70281160007, 70281160008, 70281160009, 70281160010, 70281160011, 70281160012, 70281160013, 70281160014, 70281160015, 70281160016		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Apparent Color	units	<5.0	5.0	12/15/23 22:41	

LABORATORY CONTROL SAMPLE:	1695788					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Apparent Color	units	40	40.0	100	90-110	

SAMPLE DUPLICATE: 1695790					
		70281160010	Dup		
Parameter	Units	Result	Result	RPD	Qualifiers
Apparent Color	units	15.0	15.0	0	
pH	Std. Units	8.1	8.1	0	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

QC Batch:	332029	Analysis Method:	SM22 2320B
QC Batch Method:	SM22 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70281160001, 70281160002, 70281160003, 70281160004, 70281160005, 70281160006, 70281160007, 70281160008, 70281160009, 70281160010		

METHOD BLANK:	1701898	Matrix:	Water
Associated Lab Samples:	70281160001, 70281160002, 70281160003, 70281160004, 70281160005, 70281160006, 70281160007, 70281160008, 70281160009, 70281160010		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	<1.0	1.0	12/26/23 16:28	

LABORATORY CONTROL SAMPLE: 1701899						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ma/L	25	25.6	102	85-115	

MATRIX SPIKE SAMPLE:	1701933						
Parameter	Units	70281160010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	123	50	157	69	75-125	M1

SAMPLE DUPLICATE: 1701932					
Parameter	Units	70281160010 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	ma/L	123	123	1	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

QC Batch: 332100

Analysis Method: SM22 2320B

QC Batch Method: SM22 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70281160011, 70281160012, 70281160013, 70281160014, 70281160015, 70281160016

METHOD BLANK: 1702341

Matrix: Water

Associated Lab Samples: 70281160011, 70281160012, 70281160013, 70281160014, 70281160015, 70281160016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	<1.0	1.0	12/27/23 12:43	

LABORATORY CONTROL SAMPLE: 1702342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	25	26.1	104	85-115	

MATRIX SPIKE SAMPLE: 1702344

Parameter	Units	70282073001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	290	50	317	55	75-125	M1

SAMPLE DUPLICATE: 1702343

Parameter	Units	70282073001 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	290	286	1	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

QC Batch:	331319	Analysis Method:	SM22 2540C
QC Batch Method:	SM22 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70281160001

METHOD BLANK: 1697739 Matrix: Water

Associated Lab Samples: 70281160001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	12/19/23 16:28	

LABORATORY CONTROL SAMPLE: 1697740

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	574	115	85-115	

MATRIX SPIKE SAMPLE: 1697742

Parameter	Units	70280840001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	289	300	613	108	75-125	

SAMPLE DUPLICATE: 1697741

Parameter	Units	70280840001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	289	283	2	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

QC Batch:	331455	Analysis Method:	SM22 2540C
QC Batch Method:	SM22 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70281160002, 70281160003, 70281160004, 70281160005, 70281160006, 70281160007, 70281160008, 70281160009, 70281160010, 70281160011, 70281160012, 70281160013, 70281160014, 70281160015, 70281160016		

METHOD BLANK: 1698586

Matrix: Water

Associated Lab Samples: 70281160002, 70281160003, 70281160004, 70281160005, 70281160006, 70281160007, 70281160008, 70281160009, 70281160010, 70281160011, 70281160012, 70281160013, 70281160014, 70281160015, 70281160016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	12/20/23 17:48	

LABORATORY CONTROL SAMPLE: 1698587

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	518	104	85-115	

MATRIX SPIKE SAMPLE: 1698589

Parameter	Units	70281160002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	261	300	557	99	75-125	

MATRIX SPIKE SAMPLE: 1698591

Parameter	Units	70281160010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	165	300	446	94	75-125	

SAMPLE DUPLICATE: 1698588

Parameter	Units	70281160002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	261	244	7	D6

SAMPLE DUPLICATE: 1698590

Parameter	Units	70281160010 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	165	154	7	D6

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

QC Batch:	332266	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70281160001, 70281160002, 70281160003, 70281160004, 70281160005, 70281160006, 70281160007, 70281160008, 70281160009, 70281160010, 70281160011, 70281160012, 70281160013, 70281160014, 70281160015, 70281160016		

METHOD BLANK:	1703279	Matrix:	Water
Associated Lab Samples:	70281160001, 70281160002, 70281160003, 70281160004, 70281160005, 70281160006, 70281160007, 70281160008, 70281160009, 70281160010, 70281160011, 70281160012, 70281160013, 70281160014, 70281160015, 70281160016		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<10.0	10.0	12/28/23 07:13	

LABORATORY CONTROL SAMPLE: 1703280						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	508	102	90-110	

MATRIX SPIKE SAMPLE:		1703283					
		70281160010	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chemical Oxygen Demand	mg/L	11.8	1000	1000	99	90-110	

MATRIX SPIKE SAMPLE:	1703285						
		70281160015	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chemical Oxygen Demand	mg/L	20.5	1000	1020	100	90-110	

SAMPLE DUPLICATE: 1703284					
Parameter	Units	70281160010 Result	Dup Result	RPD	Qualifiers
Chemical Oxygen Demand	mg/L	11.8	11.8	0	

SAMPLE DUPLICATE: 1703286					
Parameter	Units	70281160015 Result	Dup Result	RPD	Qualifiers
Chemical Oxygen Demand	mg/L	20.5	22.6	10	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

QC Batch: 330976

Analysis Method: SM22 5210B

QC Batch Method: SM22 5210B

Analysis Description: 5210B BOD, 5 day

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70281160001, 70281160002, 70281160003, 70281160004

METHOD BLANK: 1695473

Matrix: Water

Associated Lab Samples: 70281160001, 70281160002, 70281160003, 70281160004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	<1.0	1.0	12/20/23 09:08	

LABORATORY CONTROL SAMPLE: 1695474

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	213	107	84.5-115.4	

SAMPLE DUPLICATE: 1695475

Parameter	Units	70281005001 Result	Dup Result	RPD	Qualifiers
BOD, 5 day	mg/L	86.7	91.9	6	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

QC Batch:	331060	Analysis Method:	SM22 5210B
QC Batch Method:	SM22 5210B	Analysis Description:	5210B BOD, 5 day
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70281160005, 70281160006, 70281160007, 70281160008, 70281160009, 70281160010, 70281160011, 70281160012, 70281160013, 70281160014, 70281160015, 70281160016		

METHOD BLANK:	1696085	Matrix:	Water
Associated Lab Samples:	70281160005, 70281160006, 70281160007, 70281160008, 70281160009, 70281160010, 70281160011, 70281160012, 70281160013, 70281160014, 70281160015, 70281160016		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	<1.0	1.0	12/21/23 09:16	

LABORATORY CONTROL SAMPLE: 1696086						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	199	101	84.5-115.4	

SAMPLE DUPLICATE: 1696087

Parameter	Units	70281160010 Result	Dup Result	RPD	Qualifiers
BOD, 5 day	mg/L	<2.0	<2.0		

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

QC Batch:	332951	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70281160001, 70281160002, 70281160003, 70281160004, 70281160005, 70281160006, 70281160007, 70281160008, 70281160009, 70281160010, 70281160011, 70281160012, 70281160013, 70281160014, 70281160015, 70281160016		

METHOD BLANK: 1707348

Matrix: Water

Associated Lab Samples: 70281160001, 70281160002, 70281160003, 70281160004, 70281160005, 70281160006, 70281160007, 70281160008, 70281160009, 70281160010, 70281160011, 70281160012, 70281160013, 70281160014, 70281160015, 70281160016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	<0.50	0.50	01/04/24 17:58	
Chloride	mg/L	<2.0	2.0	01/04/24 17:58	
Sulfate	mg/L	<5.0	5.0	01/04/24 17:58	

LABORATORY CONTROL SAMPLE: 1707349

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	1	1.0	102	90-110	
Chloride	mg/L	10	10.0	100	90-110	
Sulfate	mg/L	10	9.9	99	90-110	

MATRIX SPIKE SAMPLE: 1707350

Parameter	Units	70281160010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	<0.50	1	1.1	109	90-110	
Chloride	mg/L	2.9	10	13.0	101	90-110	
Sulfate	mg/L	19.5	10	28.4	89	90-110	M1

MATRIX SPIKE SAMPLE: 1707352

Parameter	Units	70281563001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	<0.50	1	1.2	124	90-110	M1
Chloride	mg/L	121	20	129	39	90-110	
Sulfate	mg/L	39.5	10	48.4	90	90-110	

SAMPLE DUPLICATE: 1707351

Parameter	Units	70281160010 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	<0.50	<0.50		
Chloride	mg/L	2.9	2.8	1	
Sulfate	mg/L	19.5	19.4	0	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 12/14
Pace Project No.: 70281160

SAMPLE DUPLICATE: 1707353

Parameter	Units	70281563001 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	<0.50	<0.50		
Chloride	mg/L	121	125	3	
Sulfate	mg/L	39.5	39.8	1	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

QC Batch:	332265	Analysis Method:	EPA 351.2
QC Batch Method:	EPA 351.2	Analysis Description:	351.2 TKN
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70281160001, 70281160002, 70281160003, 70281160004, 70281160005, 70281160006, 70281160007, 70281160008, 70281160009, 70281160010, 70281160011, 70281160012, 70281160013, 70281160014, 70281160015		

METHOD BLANK: 1703273

Matrix: Water

Associated Lab Samples: 70281160001, 70281160002, 70281160003, 70281160004, 70281160005, 70281160006, 70281160007, 70281160008, 70281160009, 70281160010, 70281160011, 70281160012, 70281160013, 70281160014, 70281160015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.094	0.094	12/28/23 15:07	

LABORATORY CONTROL SAMPLE: 1703274

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	4.0	99	90-110	

MATRIX SPIKE SAMPLE: 1703275

Parameter	Units	70281160010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.17	4	3.9	93	90-110	

MATRIX SPIKE SAMPLE: 1703277

Parameter	Units	70281956002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.67	4	4.4	92	90-110	

SAMPLE DUPLICATE: 1703276

Parameter	Units	70281160010 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.17	0.30	53	D6

SAMPLE DUPLICATE: 1703278

Parameter	Units	70281956002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.67	0.67	1	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

QC Batch:	332120	Analysis Method:	SM22 4500 NH3 H
QC Batch Method:	SM22 4500 NH3 H	Analysis Description:	4500 Ammonia
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70281160001, 70281160002, 70281160003, 70281160004, 70281160005, 70281160006, 70281160007, 70281160008, 70281160009, 70281160010, 70281160011, 70281160012, 70281160013, 70281160014, 70281160015, 70281160016		

METHOD BLANK:	1702383	Matrix:	Water
Associated Lab Samples:	70281160001, 70281160002, 70281160003, 70281160004, 70281160005, 70281160006, 70281160007, 70281160008, 70281160009, 70281160010, 70281160011, 70281160012, 70281160013, 70281160014, 70281160015, 70281160016		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.050	0.050	12/27/23 11:48	

LABORATORY CONTROL SAMPLE:	1702384					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	100	90-110	

MATRIX SPIKE SAMPLE:		1702385					
		70281160010	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	1	0.94	91	75-125	

SAMPLE DUPLICATE: 1702386					
Parameter	Units	70281160010 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	<0.10		

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 12/14
Pace Project No.: 70281160

QC Batch: 331845 Analysis Method: EPA 9060A
QC Batch Method: EPA 9060A Analysis Description: 9060 TOC
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70281160001

METHOD BLANK: 1700770 Matrix: Water
Associated Lab Samples: 70281160001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<0.50	0.50	12/22/23 16:53	
Total Organic Carbon	mg/L	<0.50	0.50	12/22/23 16:53	
Total Organic Carbon	mg/L	<0.50	0.50	12/22/23 16:53	
Total Organic Carbon	mg/L	<0.50	0.50	12/22/23 16:53	
Total Organic Carbon	mg/L	<0.50	0.50	12/22/23 16:53	

LABORATORY CONTROL SAMPLE: 1700771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	10	9.7	97	85-115	
Total Organic Carbon	mg/L	10	7.0	70	85-115	L2
Total Organic Carbon	mg/L	10	10.5	105	85-115	
Total Organic Carbon	mg/L	10	10.4	104	85-115	
Total Organic Carbon	mg/L	10	10.9	109	85-115	

MATRIX SPIKE SAMPLE: 1700773

Parameter	Units	70279878012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	15.0	10	29.2	142	75-125	M1
Total Organic Carbon	mg/L	15.1	10	30.2	151	75-125	M1
Total Organic Carbon	mg/L	14.2	10	29.3	151	75-125	M1
Total Organic Carbon	mg/L	14.9	10	29.5	146	75-125	M0
Total Organic Carbon	mg/L	15.7	10	27.8	120	75-125	

SAMPLE DUPLICATE: 1700772

Parameter	Units	70279878012 Result	Dup Result	RPD	Qualifiers
Mean Total Organic Carbon	mg/L	15.0	13.8	8	
Total Organic Carbon	mg/L	14.2	13.8	2	
Total Organic Carbon	mg/L	14.9	15.1	1	
Total Organic Carbon	mg/L	15.7	15.0	4	
Total Organic Carbon	mg/L	15.1	11.1	30	D6

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

QC Batch:	332843	Analysis Method:	EPA 9060A
QC Batch Method:	EPA 9060A	Analysis Description:	9060 TOC
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70281160002, 70281160003, 70281160004, 70281160005, 70281160006, 70281160007, 70281160008, 70281160009, 70281160010, 70281160011, 70281160012, 70281160013, 70281160014, 70281160015		

METHOD BLANK: 1706488

Matrix: Water

Associated Lab Samples: 70281160002, 70281160003, 70281160004, 70281160005, 70281160006, 70281160007, 70281160008, 70281160009, 70281160010, 70281160011, 70281160012, 70281160013, 70281160014, 70281160015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<0.50	0.50	01/04/24 21:28	
Total Organic Carbon	mg/L	<0.50	0.50	01/04/24 21:28	
Total Organic Carbon	mg/L	<0.50	0.50	01/04/24 21:28	
Total Organic Carbon	mg/L	<0.50	0.50	01/04/24 21:28	
Total Organic Carbon	mg/L	<0.50	0.50	01/04/24 21:28	

LABORATORY CONTROL SAMPLE: 1706489

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	10	10.8	108	85-115	
Total Organic Carbon	mg/L	10	10.6	106	85-115	
Total Organic Carbon	mg/L	10	10.4	104	85-115	
Total Organic Carbon	mg/L	10	11.0	110	85-115	
Total Organic Carbon	mg/L	10	11.3	113	85-115	

MATRIX SPIKE SAMPLE: 1706491

Parameter	Units	70281160010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	<1.0	10	10.4	98	75-125	
Total Organic Carbon	mg/L	<1.0	10	13.5	133	75-125	M1
Total Organic Carbon	mg/L	<1.0	10	<1.0	-1	75-125	M1
Total Organic Carbon	mg/L	1.4	10	13.2	117	75-125	
Total Organic Carbon	mg/L	<1.0	10	14.7	144	75-125	M1

SAMPLE DUPLICATE: 1706490

Parameter	Units	70281160010 Result	Dup Result	RPD	Qualifiers
Mean Total Organic Carbon	mg/L	<1.0	<1.0		
Total Organic Carbon	mg/L	1.4	<1.0		
Total Organic Carbon	mg/L	<1.0	<1.0		
Total Organic Carbon	mg/L	<1.0	<1.0		
Total Organic Carbon	mg/L	<1.0	2.2		

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

QC Batch: 333109

Analysis Method: EPA 9060A

QC Batch Method: EPA 9060A

Analysis Description: 9060 TOC

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70281160016

METHOD BLANK: 1708197

Matrix: Water

Associated Lab Samples: 70281160016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<0.50	0.50	01/09/24 10:06	
Total Organic Carbon	mg/L	<0.50	0.50	01/09/24 10:06	
Total Organic Carbon	mg/L	<0.50	0.50	01/09/24 10:06	
Total Organic Carbon	mg/L	<0.50	0.50	01/09/24 10:06	
Total Organic Carbon	mg/L	<0.50	0.50	01/09/24 10:06	

LABORATORY CONTROL SAMPLE: 1708198

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	10	10.1	101	85-115	
Total Organic Carbon	mg/L	10	10	100	85-115	
Total Organic Carbon	mg/L	10	10.1	101	85-115	
Total Organic Carbon	mg/L	10	10.1	101	85-115	
Total Organic Carbon	mg/L	10	10.1	101	85-115	

MATRIX SPIKE SAMPLE: 1708200

Parameter	Units	70281817007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	9.9	10	19.5	96	75-125	
Total Organic Carbon	mg/L	9.7	10	19.1	94	75-125	
Total Organic Carbon	mg/L	10	10	19.6	96	75-125	
Total Organic Carbon	mg/L	9.9	10	19.5	96	75-125	
Total Organic Carbon	mg/L	10	10	19.8	98	75-125	

SAMPLE DUPLICATE: 1708199

Parameter	Units	70281817007 Result	Dup Result	RPD	Qualifiers
Mean Total Organic Carbon	mg/L	9.9	9.9	0	
Total Organic Carbon	mg/L	9.7	9.7	0	
Total Organic Carbon	mg/L	9.9	9.9	0	
Total Organic Carbon	mg/L	10	9.9	1	
Total Organic Carbon	mg/L	10	10.0	0	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 331483

- [1] The post digestion spike for sample 70281160010 (PDS 1698680) did not meet acceptance criteria for Silver and Calcium.
- [2] The serial dilution for sample 70281160010 (SD 1698681) did not meet acceptance criteria for Boron.

ANALYTE QUALIFIERS

- D6 The precision between the sample and sample duplicate exceeded laboratory control limits.
- L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70281160001	MW-1		331603		
70281160002	MW-3A		331603		
70281160003	MW-8D		331603		
70281160004	MW-10D		331603		
70281160005	MW-7S		331603		
70281160006	MW-6DA		331603		
70281160007	MW-6S		331603		
70281160008	MW-17D		331603		
70281160009	MW-17S		331603		
70281160010	MW-5D		331603		
70281160011	MW-5S		331603		
70281160012	MW-27D		331603		
70281160013	MW-27S		331603		
70281160014	MW-9D		331603		
70281160015	MW-9S		331603		
70281160001	MW-1	SM22 2340B	332751		
70281160002	MW-3A	SM22 2340B	332751		
70281160003	MW-8D	SM22 2340B	332751		
70281160004	MW-10D	SM22 2340B	332751		
70281160005	MW-7S	SM22 2340B	332751		
70281160006	MW-6DA	SM22 2340B	332751		
70281160007	MW-6S	SM22 2340B	332751		
70281160008	MW-17D	SM22 2340B	332751		
70281160009	MW-17S	SM22 2340B	332751		
70281160010	MW-5D	SM22 2340B	332751		
70281160011	MW-5S	SM22 2340B	332751		
70281160012	MW-27D	SM22 2340B	332751		
70281160013	MW-27S	SM22 2340B	332751		
70281160014	MW-9D	SM22 2340B	332751		
70281160015	MW-9S	SM22 2340B	332751		
70281160016	FB-01	SM22 2340B	332751		
70281160001	MW-1	EPA 3005A	331402	EPA 6010C	331483
70281160002	MW-3A	EPA 3005A	331402	EPA 6010C	331483
70281160003	MW-8D	EPA 3005A	331402	EPA 6010C	331483
70281160004	MW-10D	EPA 3005A	331402	EPA 6010C	331483
70281160005	MW-7S	EPA 3005A	331402	EPA 6010C	331483
70281160006	MW-6DA	EPA 3005A	331402	EPA 6010C	331483
70281160007	MW-6S	EPA 3005A	331402	EPA 6010C	331483
70281160008	MW-17D	EPA 3005A	331402	EPA 6010C	331483
70281160009	MW-17S	EPA 3005A	331402	EPA 6010C	331483
70281160010	MW-5D	EPA 3005A	331402	EPA 6010C	331483
70281160011	MW-5S	EPA 3005A	331402	EPA 6010C	331483
70281160012	MW-27D	EPA 3005A	331402	EPA 6010C	331483
70281160013	MW-27S	EPA 3005A	331402	EPA 6010C	331483
70281160014	MW-9D	EPA 3005A	331402	EPA 6010C	331483
70281160015	MW-9S	EPA 3005A	331403	EPA 6010C	331484
70281160016	FB-01	EPA 3005A	331403	EPA 6010C	331484

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70281160001	MW-1	EPA 180.1	331036		
70281160002	MW-3A	EPA 180.1	331036		
70281160003	MW-8D	EPA 180.1	331036		
70281160004	MW-10D	EPA 180.1	331036		
70281160005	MW-7S	EPA 180.1	331036		
70281160006	MW-6DA	EPA 180.1	331036		
70281160007	MW-6S	EPA 180.1	331036		
70281160008	MW-17D	EPA 180.1	331036		
70281160009	MW-17S	EPA 180.1	331036		
70281160010	MW-5D	EPA 180.1	331036		
70281160011	MW-5S	EPA 180.1	331036		
70281160012	MW-27D	EPA 180.1	331036		
70281160013	MW-27S	EPA 180.1	331036		
70281160014	MW-9D	EPA 180.1	331036		
70281160015	MW-9S	EPA 180.1	331036		
70281160016	FB-01	EPA 180.1	331036		
70281160001	MW-1	SM22 2120B	331035		
70281160002	MW-3A	SM22 2120B	331035		
70281160003	MW-8D	SM22 2120B	331035		
70281160004	MW-10D	SM22 2120B	331035		
70281160005	MW-7S	SM22 2120B	331035		
70281160006	MW-6DA	SM22 2120B	331035		
70281160007	MW-6S	SM22 2120B	331035		
70281160008	MW-17D	SM22 2120B	331035		
70281160009	MW-17S	SM22 2120B	331035		
70281160010	MW-5D	SM22 2120B	331035		
70281160011	MW-5S	SM22 2120B	331035		
70281160012	MW-27D	SM22 2120B	331035		
70281160013	MW-27S	SM22 2120B	331035		
70281160014	MW-9D	SM22 2120B	331035		
70281160015	MW-9S	SM22 2120B	331035		
70281160016	FB-01	SM22 2120B	331035		
70281160001	MW-1	SM22 2320B	332029		
70281160002	MW-3A	SM22 2320B	332029		
70281160003	MW-8D	SM22 2320B	332029		
70281160004	MW-10D	SM22 2320B	332029		
70281160005	MW-7S	SM22 2320B	332029		
70281160006	MW-6DA	SM22 2320B	332029		
70281160007	MW-6S	SM22 2320B	332029		
70281160008	MW-17D	SM22 2320B	332029		
70281160009	MW-17S	SM22 2320B	332029		
70281160010	MW-5D	SM22 2320B	332029		
70281160011	MW-5S	SM22 2320B	332100		
70281160012	MW-27D	SM22 2320B	332100		
70281160013	MW-27S	SM22 2320B	332100		
70281160014	MW-9D	SM22 2320B	332100		
70281160015	MW-9S	SM22 2320B	332100		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70281160016	FB-01	SM22 2320B	332100		
70281160001	MW-1	SM22 2540C	331319		
70281160002	MW-3A	SM22 2540C	331455		
70281160003	MW-8D	SM22 2540C	331455		
70281160004	MW-10D	SM22 2540C	331455		
70281160005	MW-7S	SM22 2540C	331455		
70281160006	MW-6DA	SM22 2540C	331455		
70281160007	MW-6S	SM22 2540C	331455		
70281160008	MW-17D	SM22 2540C	331455		
70281160009	MW-17S	SM22 2540C	331455		
70281160010	MW-5D	SM22 2540C	331455		
70281160011	MW-5S	SM22 2540C	331455		
70281160012	MW-27D	SM22 2540C	331455		
70281160013	MW-27S	SM22 2540C	331455		
70281160014	MW-9D	SM22 2540C	331455		
70281160015	MW-9S	SM22 2540C	331455		
70281160016	FB-01	SM22 2540C	331455		
70281160001	MW-1	EPA 410.4	332266	EPA 410.4	332270
70281160002	MW-3A	EPA 410.4	332266	EPA 410.4	332270
70281160003	MW-8D	EPA 410.4	332266	EPA 410.4	332270
70281160004	MW-10D	EPA 410.4	332266	EPA 410.4	332270
70281160005	MW-7S	EPA 410.4	332266	EPA 410.4	332270
70281160006	MW-6DA	EPA 410.4	332266	EPA 410.4	332270
70281160007	MW-6S	EPA 410.4	332266	EPA 410.4	332270
70281160008	MW-17D	EPA 410.4	332266	EPA 410.4	332270
70281160009	MW-17S	EPA 410.4	332266	EPA 410.4	332270
70281160010	MW-5D	EPA 410.4	332266	EPA 410.4	332270
70281160011	MW-5S	EPA 410.4	332266	EPA 410.4	332270
70281160012	MW-27D	EPA 410.4	332266	EPA 410.4	332270
70281160013	MW-27S	EPA 410.4	332266	EPA 410.4	332270
70281160014	MW-9D	EPA 410.4	332266	EPA 410.4	332270
70281160015	MW-9S	EPA 410.4	332266	EPA 410.4	332270
70281160016	FB-01	EPA 410.4	332266	EPA 410.4	332270
70281160001	MW-1	SM22 5210B	330976	SM22 5210B	331615
70281160002	MW-3A	SM22 5210B	330976	SM22 5210B	331615
70281160003	MW-8D	SM22 5210B	330976	SM22 5210B	331615
70281160004	MW-10D	SM22 5210B	330976	SM22 5210B	331615
70281160005	MW-7S	SM22 5210B	331060	SM22 5210B	332382
70281160006	MW-6DA	SM22 5210B	331060	SM22 5210B	332382
70281160007	MW-6S	SM22 5210B	331060	SM22 5210B	332382
70281160008	MW-17D	SM22 5210B	331060	SM22 5210B	332382
70281160009	MW-17S	SM22 5210B	331060	SM22 5210B	332382
70281160010	MW-5D	SM22 5210B	331060	SM22 5210B	332382
70281160011	MW-5S	SM22 5210B	331060	SM22 5210B	332382
70281160012	MW-27D	SM22 5210B	331060	SM22 5210B	332382
70281160013	MW-27S	SM22 5210B	331060	SM22 5210B	332382

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70281160014	MW-9D	SM22 5210B	331060	SM22 5210B	332382
70281160015	MW-9S	SM22 5210B	331060	SM22 5210B	332382
70281160016	FB-01	SM22 5210B	331060	SM22 5210B	332382
70281160001	MW-1	EPA 300.0	332951		
70281160002	MW-3A	EPA 300.0	332951		
70281160003	MW-8D	EPA 300.0	332951		
70281160004	MW-10D	EPA 300.0	332951		
70281160005	MW-7S	EPA 300.0	332951		
70281160006	MW-6DA	EPA 300.0	332951		
70281160007	MW-6S	EPA 300.0	332951		
70281160008	MW-17D	EPA 300.0	332951		
70281160009	MW-17S	EPA 300.0	332951		
70281160010	MW-5D	EPA 300.0	332951		
70281160011	MW-5S	EPA 300.0	332951		
70281160012	MW-27D	EPA 300.0	332951		
70281160013	MW-27S	EPA 300.0	332951		
70281160014	MW-9D	EPA 300.0	332951		
70281160015	MW-9S	EPA 300.0	332951		
70281160016	FB-01	EPA 300.0	332951		
70281160001	MW-1	EPA 351.2	332265	EPA 351.2	332269
70281160002	MW-3A	EPA 351.2	332265	EPA 351.2	332269
70281160003	MW-8D	EPA 351.2	332265	EPA 351.2	332269
70281160004	MW-10D	EPA 351.2	332265	EPA 351.2	332269
70281160005	MW-7S	EPA 351.2	332265	EPA 351.2	332269
70281160006	MW-6DA	EPA 351.2	332265	EPA 351.2	332269
70281160007	MW-6S	EPA 351.2	332265	EPA 351.2	332269
70281160008	MW-17D	EPA 351.2	332265	EPA 351.2	332269
70281160009	MW-17S	EPA 351.2	332265	EPA 351.2	332269
70281160010	MW-5D	EPA 351.2	332265	EPA 351.2	332269
70281160011	MW-5S	EPA 351.2	332265	EPA 351.2	332269
70281160012	MW-27D	EPA 351.2	332265	EPA 351.2	332269
70281160013	MW-27S	EPA 351.2	332265	EPA 351.2	332269
70281160014	MW-9D	EPA 351.2	332265	EPA 351.2	332269
70281160015	MW-9S	EPA 351.2	332265	EPA 351.2	332269
70281160001	MW-1	SM22 4500 NH3 H	332120		
70281160002	MW-3A	SM22 4500 NH3 H	332120		
70281160003	MW-8D	SM22 4500 NH3 H	332120		
70281160004	MW-10D	SM22 4500 NH3 H	332120		
70281160005	MW-7S	SM22 4500 NH3 H	332120		
70281160006	MW-6DA	SM22 4500 NH3 H	332120		
70281160007	MW-6S	SM22 4500 NH3 H	332120		
70281160008	MW-17D	SM22 4500 NH3 H	332120		
70281160009	MW-17S	SM22 4500 NH3 H	332120		
70281160010	MW-5D	SM22 4500 NH3 H	332120		
70281160011	MW-5S	SM22 4500 NH3 H	332120		
70281160012	MW-27D	SM22 4500 NH3 H	332120		
70281160013	MW-27S	SM22 4500 NH3 H	332120		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OPERATIONAL WELLS 12/14

Pace Project No.: 70281160

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70281160014	MW-9D	SM22 4500 NH3 H	332120		
70281160015	MW-9S	SM22 4500 NH3 H	332120		
70281160016	FB-01	SM22 4500 NH3 H	332120		
70281160001	MW-1	EPA 9060A	331845		
70281160002	MW-3A	EPA 9060A	332843		
70281160003	MW-8D	EPA 9060A	332843		
70281160004	MW-10D	EPA 9060A	332843		
70281160005	MW-7S	EPA 9060A	332843		
70281160006	MW-6DA	EPA 9060A	332843		
70281160007	MW-6S	EPA 9060A	332843		
70281160008	MW-17D	EPA 9060A	332843		
70281160009	MW-17S	EPA 9060A	332843		
70281160010	MW-5D	EPA 9060A	332843		
70281160011	MW-5S	EPA 9060A	332843		
70281160012	MW-27D	EPA 9060A	332843		
70281160013	MW-27S	EPA 9060A	332843		
70281160014	MW-9D	EPA 9060A	332843		
70281160015	MW-9S	EPA 9060A	332843		
70281160016	FB-01	EPA 9060A	333109		

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CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-

WO#: 70281160



ALL S

70281160

KMM

Chain-of-Custody is a LEGAL DOCUMENT- Complete all relevant fields

Billing Information: TJ Milo, 306 Fayette Avenue Realty,
565 Westchester Ave. Rye Brook, NY 10573

Company: Al Turi Landfill

Address: 73 Hartley Road Goshen, NY 10924

Report To: TJ Milo

Email To:

Copy To:

Customer Project Name/Number: Operational Wells

State NY County/City

Time Zone Collected EST

Phone: 914-907-2395

Fax:

Collected by (print): Dan Subbiah PAGE

Quote #

Turnaround Date Required: Standard

Sample Disposal:

[] Dispose as appropriate [] Return

[] Archive [] Hold

RUSH:

Same Day Next Day

Day 3 Day 4 Day 5 Day

(Expedite Charges Apply)

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID

Matrix* Grab

Collected (or Composite Start) Date Time

Composite End Date Time

of Cms

Res CI

Time

Time

Time

Time

Time

Time

Time

Time

Time

Time

Time

Time

Time

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Time

Time

Time

Time

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Time

Time

Time

Time

LAB Profile/Inv:

LAB Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA
Collector Signatures Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in holding time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: Y N NA
Sample pH Acceptable Y N NA
pH Strips: 2.3000 Y N NA
Sulfide Present Y N NA
Lead Acetate Strips: Y N NA

LAB USE ONLY: ↓
Lab Sample # / Comments

Analyses

Analyses

Analyses

Analyses

Analyses

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Analyses

LAB Sample Temperature Info:

Temp Blank received: Y N NA

Therm ID #: 11111

Cooler 1 Temp Upon Receipt 0.8 oC

Cooler 1 Therm Corr. Factor ±0.4 oC

Cooler 1 Corrected Temp 1.2 oC

Comments:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non-Conformance(s)

YES / NO

Page of 2

MTJL LAB USE ONLY

Table #:

ACCT #:

Template:

Prologin:

PM:

PB:

SHORT HOLDS PRESENT (< 72 hours): Y N N/A

LAB Tracking #:

Samples received via: FEDEX [] UPS [] Courier []

Received by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-In Number Here



Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Al Turf Landfill
 Address: 73 Hartley Road Goshen, NY 10924
 Billing Information: TJ Millo, 306 Fayette Avenue Realty, 566 Westchester Ave. Rye Brook, NY 10673

Report To: TJ Millo
 Email To:

Copy To:

Customer Project Name/Number: Operational Wells
 State NY County/City Time Zone Collected EST

Site Collection Info/Address:
 Site/Facility ID #
 Purchase Order #
 Quote #
 Turnaround Date Required:
 Standard
 Rush:
 Same Day Next Day 2
 Day 3 Day 4 Day 5 Day
 (Expedite Charges Apply)

Collected by (signature):
 Sample Disposal:
 [] Dispose as appropriate [] Return
 [] Archive [] Hold

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipes (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix*	Comp/Grab	Collected (or Composite Start)	Date	Time	Composite End	Date	Time	Res Cl	# of Cms
MW-27S	GW	G	12/14	12:15						8
MW-9D	GW	G	12/14	13:00						8
MW-9S	GW	G	12/14	12:45						8
FB-01	GW	G	12/14	13:00						8
LEACHATE 12S	WW	G								8
LEACHATE 12P	WW	G								8
LEACHATE 11S	WW	G								8
LEACHATE 11P	WW	G								8

Customer Remarks/ Special Conditions/ Possible Hazards: Part 360 1993 Routines ASP A

Type of Ice Used: Wet [] Blue [] Dry [] None []
 Packing Material Used: LAB Tracking #:
 Radchem sample(s) screened: (<500 cpm): [] Y [] N [] NA
 Samples received via: FEDEX [] UPS [] Courier [] Courier []
 Received by/Company: (Signature) Date/Time: 12/15 8:00
 Received by/Company: (Signature) Date/Time: 12/15 12:00
 Received by/Company: (Signature) Date/Time: 12/15 12:00
 Received by/Company: (Signature) Date/Time: 12/15 8:00

Customer Sample ID	Matrix*	Comp/Grab	Collected (or Composite Start)	Date	Time	Composite End	Date	Time	Res Cl	# of Cms
MW-27S	GW	G	12/14	12:15						8
MW-9D	GW	G	12/14	13:00						8
MW-9S	GW	G	12/14	12:45						8
FB-01	GW	G	12/14	13:00						8
LEACHATE 12S	WW	G								8
LEACHATE 12P	WW	G								8
LEACHATE 11S	WW	G								8
LEACHATE 11P	WW	G								8

Customer Remarks/ Special Conditions/ Possible Hazards: Part 360 1993 Routines ASP A

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type **

Lab Project Manager: Jen Anceci

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Analyses	PH, EH, TEMP, TURBIDITY, CONDUCTIVITY	T-AS, CA, CD, FE, MN, MG, PB, K, NA+CALC	TDS, CL, NO3, SO4, BROMIDE, BODS	ALKALINITY	TOC	NH3, TKN, COD
LAB Sample Receipt Checklist:						
Custody Seals Present/Intact	Y	N	NA			
Custody Signatures Present	Y	N	NA			
Collector Signature Present	Y	N	NA			
Bottles Intact	Y	N	NA			
Correct Bottles	Y	N	NA			
Sufficient Volume	Y	N	NA			
Samples received on ice	Y	N	NA			
VOA - Headspace Acceptable	Y	N	NA			
USDA Regulated Soils	Y	N	NA			
Samples in holding time	Y	N	NA			
Residual Chlorine Present	Y	N	NA			
Cl Strips:	Y	N	NA			
Sample pH Acceptable	Y	N	NA			
pH Strips:	Y	N	NA			
Sulfide Present	Y	N	NA			
Lead Acetate Strips:	Y	N	NA			
LAB USE ONLY: ↓						
Lab Sample # / Comments						

LAB Sample Temperature Info:

Temp Blank received: Y N NA
 Therm ID #: 11211
 Cooler 1 Temp Upon Receipt: 0.8 oC
 Cooler 1 Therm Corr. Factor: -0.4 oC
 Cooler 1 Corrected Temp: 1.2 oC

Comments:

Trips Blank Received: Y N N/A

HOL MeOH TSP Other

NonConformance(s)

YES / NO

Page 6 of 10

PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-1

PACE ID

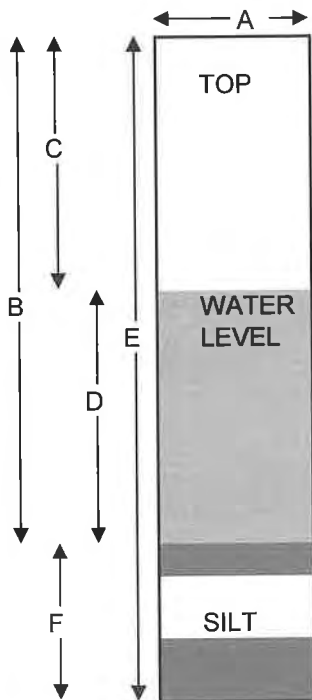
Condition of Well: Good

Locked: yes

Method of Evacuation: Bailer

Lock ID: _____

Method of Sampling: Bailer



A.	Diameter of Well	<u>6</u>	inches
B.	Well Depth Measured	<u>41.45</u>	feet
C.	Depth to Water	<u>24.74</u>	feet
D.	Length of Water Column (calculated)	<u>16.71</u>	feet
	Conversion Factor	<u>1.47</u>	-----
	Well Volume (calculated)	<u>24.56</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>73.7</u>	gallons
	Actual Volume Evacuated	<u>25.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>12/13/23</u>	<u>12/14/23</u>
Time	<u>14:30</u>	<u>13:20</u>
EH	<u>89</u>	<u>32</u> mV
Temperature	<u>9.9</u>	<u>8.7</u> C
pH	<u>6.83</u>	<u>6.78</u> SU
Specific Cond.	<u>1067</u>	<u>1051</u> uS
Turbidity	<u>22.7</u>	<u>36.1</u> NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>slightly cloudy</u>	<u>cloudy</u>

% Recharge:

Initial Depth to Water 24.74 feet

Recharge Depth to Water 24.71 feet

2nd water column height _____ %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 3C sunny

Observations: sample cloudy with slight odor

Sampler:

Matt Broker

Signature: Matt Broker

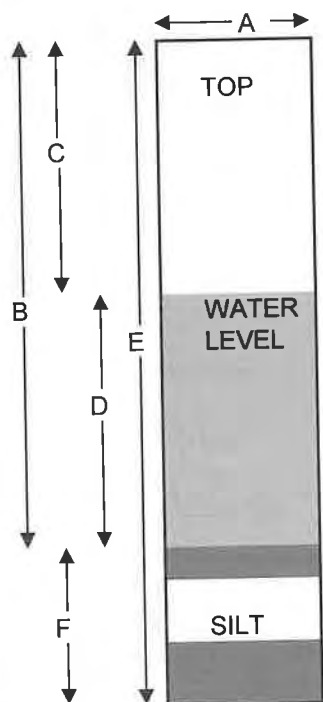
PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-3A

PACE ID

Condition of Well: Good
 Method of Evacuation: Bailer
 Method of Sampling: Bailer

Locked: yes
 Lock ID: _____



A.	Diameter of Well	<u>4</u>	inches
B.	Well Depth Measured	<u>27.90</u>	feet
C.	Depth to Water	<u>8.16</u>	feet
D.	Length of Water Column (calculated)	<u>19.74</u>	feet
	Conversion Factor	<u>0.65</u>	-----
	Well Volume (calculated)	<u>12.83</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>38.49</u>	gallons
	Actual Volume Evacuated	<u>17.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>12/13/23</u>	<u>12/14/23</u>
Time	<u>9:15</u>	<u>8:15</u>
EH	<u>29</u>	<u>101</u> mV
Temperature	<u>10.3</u>	<u>3.2</u> C
pH	<u>7.28</u>	<u>6.87</u> SU
Specific Cond.	<u>418.1</u>	<u>431.5</u> uS
Turbidity	<u>1.7</u>	<u>109</u> NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>clear</u>	<u>cloudy</u>

Weather: 1C sunny
 Observations: sulfur odor

% Recharge:

Initial Depth to Water 8.16 feet
 Recharge Depth to Water 9.30 feet
 2nd water column height _____ %
 1st water column height _____

Elevation(Top of Casing) N/A feet
 G.W. Elevation= N/A feet
 G.W.Elevation =Top of Case Elev-Total Depth

Sampler: _____
 Signature: Matt Broker

PACE Analytical Services, Inc. Ground water Field Log

Client: AI Turi Landfill
 Project: Operational Wells
 Well ID.: W-5D MS/MSD

PACE ID

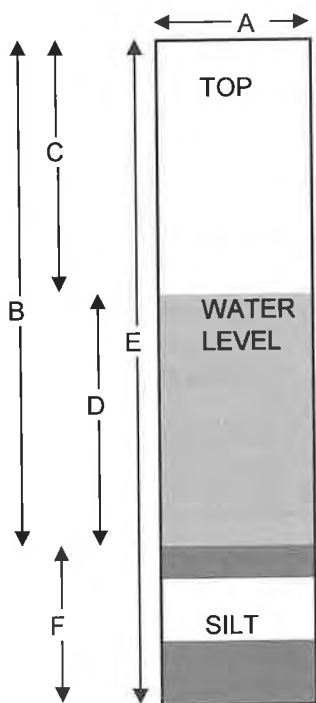
Condition of Well: Good

Locked: yes

Method of Evacuation: Bailer

Lock ID: _____

Method of Sampling: Bailer



A.	Diameter of Well	<u>2</u>	inches
B.	Well Depth Measured	<u>156.48</u>	feet
C.	Depth to Water	<u>18.81</u>	feet
D.	Length of Water Column (calculated)	<u>37.67</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>22.03</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>66.09</u>	gallons
	Actual Volume Evacuated	<u>66.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements

Initial Evacuation

Final Sampling

Date	<u>12/13/23</u>	<u>12/14/23</u>	
Time	<u>11:20</u>	<u>11:15</u>	
EH	<u>72</u>	<u>17</u>	mV
Temperature	<u>10.1</u>	<u>6.9</u>	C
pH	<u>7.91</u>	<u>8.30</u>	SU
Specific Cond.	<u>281.1</u>	<u>279.6</u>	uS
Turbidity	<u>2.97</u>	<u>7.63</u>	NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>	
Appearance	<u>clear</u>	<u>clear</u>	

Weather: 3C sunny

Observations: sample clear

% Recharge:

Initial Depth to Water 18.81 feet

Recharge Depth to Water 18.81 feet

2nd water column height _____ %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Matt Broker

Signature: [Signature]

PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-5S

PACE ID

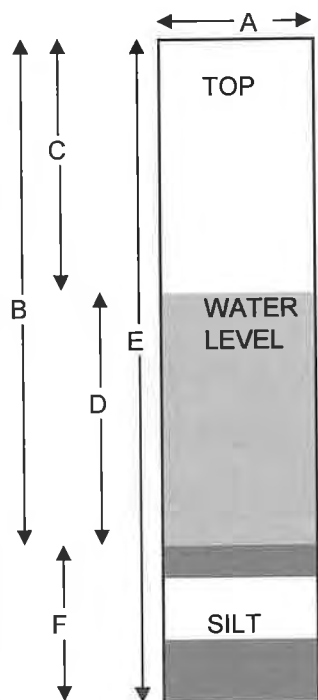
Condition of Well: Good

Locked: yes

Method of Evacuation: Bailer

Lock ID: _____

Method of Sampling: Bailer



A.	Diameter of Well	<u>2</u>	inches
B.	Well Depth Measured	<u>38.92</u>	feet
C.	Depth to Water	<u>15.58</u>	feet
D.	Length of Water Column (calculated)	<u>23.34</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>3.73</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>11.19</u>	gallons
	Actual Volume Evacuated	<u>11.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>12/13/23</u>	<u>12/14/23</u>
Time	<u>11:10</u>	<u>11:00</u>
EH	<u>47</u>	<u>-27</u> mV
Temperature	<u>8.6</u>	<u>7.1</u> C
pH	<u>7.32</u>	<u>7.34</u> SU
Specific Cond.	<u>1057</u>	<u>1093</u> uS
Turbidity	<u>161</u>	<u>28.2</u> NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>orange</u>	<u>cloudy</u>

% Recharge:

Initial Depth to Water 15.58 feet

Recharge Depth to Water 16.55 feet

2nd water column height _____ %

1st water column height _____

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 3C sunny

Observations: sample cloudy
cloudy orange while purging

Sampler: Matt Broker

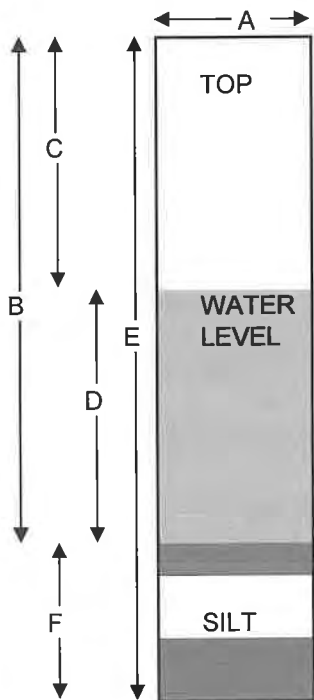
Signature: _____

PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-6DA

PAGE ID

Condition of Well: Good Locked: _____
 Method of Evacuation: Bailer Lock ID: _____
 Method of Sampling: Bailer



A.	Diameter of Well	<u>2</u>	inches
B.	Well Depth Measured	<u>123.06</u>	feet
C.	Depth to Water	<u>16.79</u>	feet
D.	Length of Water Column (calculated)	<u>106.27</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>17.00</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>51.00</u>	gallons
	Actual Volume Evacuated	<u>51.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>12/13/23</u>	<u>12/14/23</u>
Time	<u>10:20</u>	<u>9:55</u>
EH	<u>71</u>	<u>24</u> mV
Temperature	<u>9.6</u>	<u>6.9</u> C
pH	<u>7.83</u>	<u>7.61</u> SU
Specific Cond.	<u>436.2</u>	<u>419.1</u> uS
Turbidity	<u>95.1</u>	<u>8.35</u> NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>cloudy</u>	<u>clear</u>

% Recharge:

Initial Depth to Water 16.79 feet

Recharge Depth to Water 16.79 feet

2nd water column height _____ %

1st water column height _____

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Sampler:

Matt Broker

Signature: Matt Broker

Weather: 3C sunny

Observations: sample clear

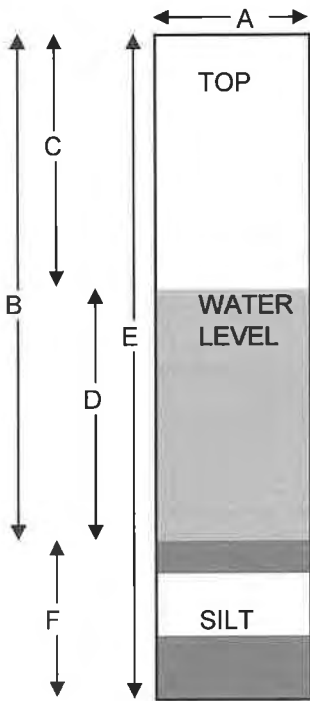
PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-6S

PACE ID

Condition of Well: Broken
 Method of Evacuation: Bailer
 Method of Sampling: Bailer

Locked: no
 Lock ID: _____



A.	Diameter of Well	<u>2</u>	inches
B.	Well Depth Measured	<u>33.73</u>	feet
C.	Depth to Water	<u>25.68</u>	feet
D.	Length of Water Column (calculated)	<u>8.05</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>1.29</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>3.87</u>	gallons
	Actual Volume Evacuated	<u>4.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>12/13/23</u>	<u>12/14/23</u>
Time	<u>10:25</u>	<u>9:45</u>
EH	<u>12</u>	<u>17</u> mV
Temperature	<u>9.1</u>	<u>5.7</u> C
pH	<u>9.97</u>	<u>7.29</u> SU
Specific Cond.	<u>889.7</u>	<u>915.7</u> uS
Turbidity	<u>> 1000</u>	<u>45.1</u> NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>orange</u>	<u>cloudy</u>

% Recharge:

Initial Depth to Water 25.68 feet
 Recharge Depth to Water 24.43 feet
 2nd water column height _____ %
 1st water column height _____

Elevation (Top of Casing) N/A feet
 G.W. Elevation = N/A feet
 G.W. Elevation = Top of Case Elev - Total Depth

Weather: 2C sunny
 Observations: orange to cloudy w/ sulfur odor

Sampler: Matt Broker
 Signature: [Signature]

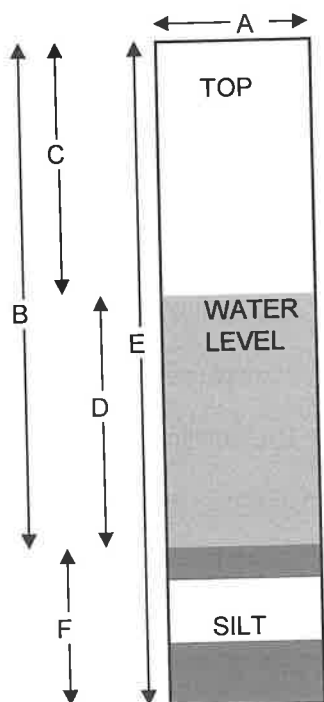
PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-7S

PACE ID

Condition of Well: Broken
 Method of Evacuation: Bailer
 Method of Sampling: Bailer

Locked: yes
 Lock ID: _____



A.	Diameter of Well	<u>2</u>	inches
B.	Well Depth Measured	<u>45.00</u>	feet
C.	Depth to Water	<u>31.23</u>	feet
D.	Length of Water Column (calculated)	<u>13.77</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>2.20</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>6.60</u>	gallons
	Actual Volume Evacuated	<u>7.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>12/13/23</u>	<u>12/14/23</u>
Time	<u>10:05</u>	<u>9:25</u>
EH	<u>50</u>	<u>10</u> mV
Temperature	<u>10.3</u>	<u>6.3</u> C
pH	<u>6.85</u>	<u>6.98</u> SU
Specific Cond.	<u>1347</u>	<u>1362</u> uS
Turbidity	<u>45.5</u>	<u>5.61</u> NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>cloudy</u>	<u>clear</u>

Weather: 2C sunny
 Observations: sulfur odor

% Recharge:

Initial Depth to Water 31.23 feet
 Recharge Depth to Water 31.20 feet
 2nd water column height _____ %
 1st water column height _____

Elevation(Top of Casing) N/A feet
 G.W. Elevation= N/A feet
 G.W.Elevation =Top of Case Elev-Total Depth

Sampler: _____
 Signature: Matt Broker

PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-8D

PACE ID

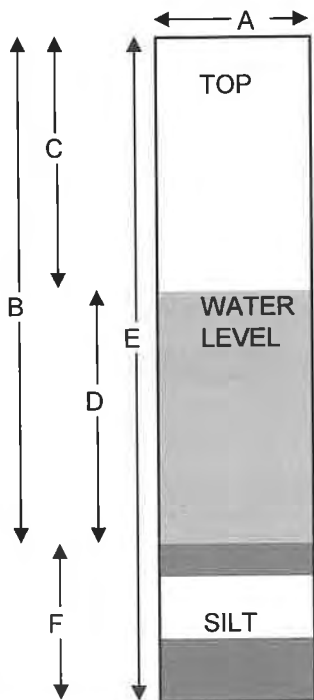
Condition of Well: Good

Locked: yes

Method of Evacuation: Bailer

Lock ID: _____

Method of Sampling: Bailer



A.	Diameter of Well	<u>2</u>	inches
B.	Well Depth Measured	<u>85.12</u>	feet
C.	Depth to Water	<u>67.83</u>	feet
D.	Length of Water Column (calculated)	<u>17.29</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>2.77</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>8.31</u>	gallons
	Actual Volume Evacuated	<u>8.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>12/13/23</u>	<u>12/14/23</u>
Time	<u>9:35</u>	<u>8:30</u>
EH	<u>169</u>	<u>52</u> mV
Temperature	<u>10.4</u>	<u>4.6</u> C
pH	<u>7.28</u>	<u>6.90</u> SU
Specific Cond.	<u>519.6</u>	<u>619.3</u> uS
Turbidity	<u>16.4</u>	<u>12.7</u> NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>slightly cloudy</u>	<u>clear</u>

% Recharge:

Initial Depth to Water	<u>67.83</u>	feet
Recharge Depth to Water	<u>67.82</u>	feet
2nd water column height	_____	%
1st water column height	_____	

Elevation (Top of Casing)	<u>N/A</u>	feet
G.W. Elevation=	<u>N/A</u>	feet
G.W. Elevation = Top of Case Elev - Total Depth		

Weather: 1C sunny

Observations: sample clear

Sampler:

Matt Broker

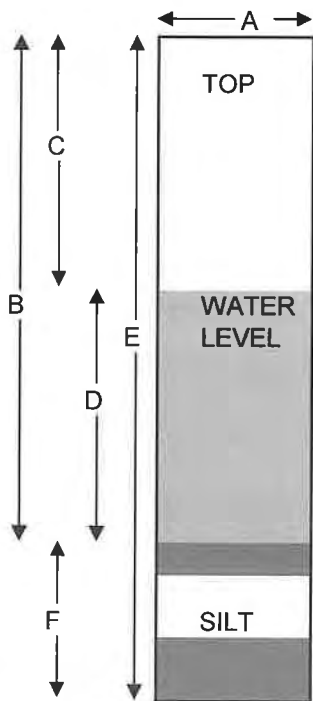
Signature: [Signature]

PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-9D

PACE ID

Condition of Well: Good Locked: _____
 Method of Evacuation: Bailer Lock ID: _____
 Method of Sampling: Bailer



A.	Diameter of Well	<u>2</u>	inches
B.	Well Depth Measured	<u>275.00</u>	feet
C.	Depth to Water	<u>43.02</u>	feet
D.	Length of Water Column (calculated)	<u>231.98</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>37.12</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>111.36</u>	gallons
	Actual Volume Evacuated	<u>45.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling	
Date	<u>12/13/23</u>	<u>12/14/23</u>	
Time	<u>13:30</u>	<u>13:00</u>	
EH	<u>35</u>	<u>-7</u>	mV
Temperature	<u>12.9</u>	<u>9.3</u>	C
pH	<u>7.62</u>	<u>7.72</u>	SU
Specific Cond.	<u>878.2</u>	<u>906.7</u>	uS
Turbidity	<u>5.7</u>	<u>3.83</u>	NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>	
Appearance	<u>clear</u>	<u>clear</u>	

% Recharge:

Initial Depth to Water 43.02 feet
 Recharge Depth to Water 49.17 feet
 2nd water column height _____ %
 1st water column height _____

Elevation(Top of Casing) N/A feet
 G.W. Elevation= N/A feet
 G.W.Elevation =Top of Case Elev-Total Depth

Weather: 3C sunny
 Observations: sample clear

Sampler: Matt Broker
 Signature: [Signature]

PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-9S

PACE ID

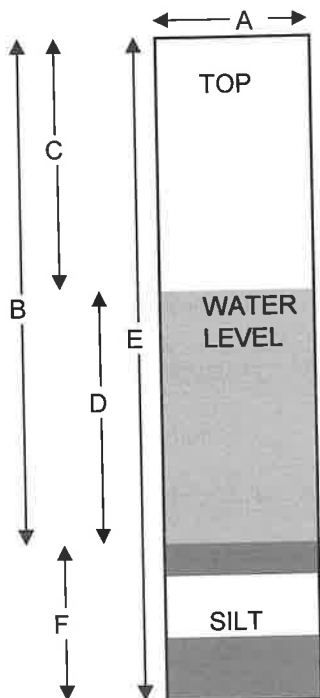
Condition of Well: Good

Locked: no

Method of Evacuation: Bailer

Lock ID: _____

Method of Sampling: Bailer



A.	Diameter of Well	<u>2</u>	inches
B.	Well Depth Measured	<u>58.06</u>	feet
C.	Depth to Water	<u>43.82</u>	feet
D.	Length of Water Column (calculated)	<u>14.24</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>2.28</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>6.84</u>	gallons
	Actual Volume Evacuated	<u>7.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>12/13/23</u>	<u>12/14/23</u>
Time	<u>13:15</u>	<u>12:45</u>
EH	<u>17</u>	<u>-23</u> mV
Temperature	<u>13.3</u>	<u>7.8</u> C
pH	<u>6.96</u>	<u>7.13</u> SU
Specific Cond.	<u>1264</u>	<u>1279</u> uS
Turbidity	<u>381</u>	<u>41.1</u> NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>cloudy</u>	<u>cloudy</u>

% Recharge:

Initial Depth to Water 43.82 feet

Recharge Depth to Water 43.65 feet

2nd water column height _____ %

1st water column height _____

Elevation (Top of Casing) N/A feet

G.W. Elevation = N/A feet

G.W. Elevation = Top of Case Elev - Total Depth

Sampler: Matt Broker

Signature: Matt Broker

Weather: 3C sunny

Observations: sample cloudy

PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-10D

PACE ID

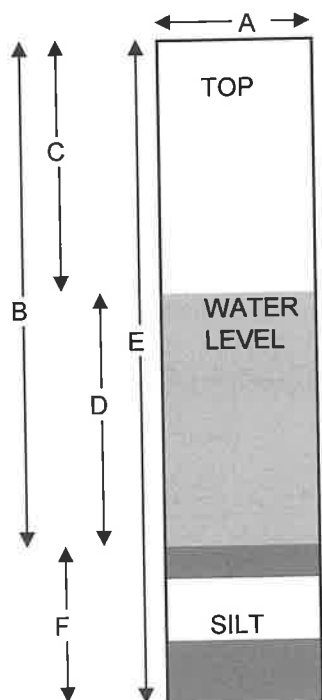
Condition of Well: Good

Locked: yes

Method of Evacuation: Bailer

Lock ID: _____

Method of Sampling: Bailer



A.	Diameter of Well	<u>2</u>	inches
B.	Well Depth Measured	<u>81.72</u>	feet
C.	Depth to Water	<u>58.91</u>	feet
D.	Length of Water Column (calculated)	<u>22.81</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>3.65</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>10.95</u>	gallons
	Actual Volume Evacuated	<u>10.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>12/13/23</u>	<u>12/14/23</u>
Time	<u>9:45</u>	<u>8:55</u>
EH	<u>34</u>	<u>112</u> mV
Temperature	<u>9.8</u>	<u>6.2</u> C
pH	<u>6.76</u>	<u>6.87</u> SU
Specific Cond.	<u>1102</u>	<u>1141</u> uS
Turbidity	<u>6.14</u>	<u>17.1</u> NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>clear</u>	<u>slightly cloudy</u>

Weather: 2C sunny

Observations: sample slightly cloudy with sulfur odor

% Recharge:

Initial Depth to Water 58.91 feet

Recharge Depth to Water 58.55 feet

2nd water column height _____ %

1st water column height _____

Elevation (Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W. Elevation = Top of Case Elev - Total Depth

Sampler: Matt Broker

Signature: [Signature]

PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-17D

PACE ID

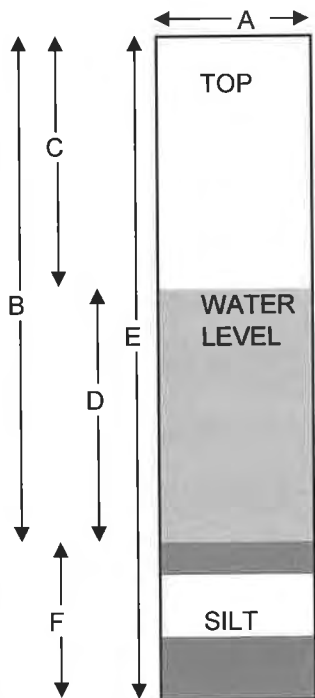
Condition of Well: Good

Locked: yes

Method of Evacuation: Bailer

Lock ID: _____

Method of Sampling: Bailer



A.	Diameter of Well	<u>2</u>	inches
B.	Well Depth Measured	<u>86.91</u>	feet
C.	Depth to Water	<u>17.51</u>	feet
D.	Length of Water Column (calculated)	<u>69.00</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>11.04</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>33.12</u>	gallons
	Actual Volume Evacuated	<u>33.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>12/13/23</u>	<u>12/14/23</u>
Time	<u>10:50</u>	<u>10:25</u>
EH	<u>107</u>	<u>92</u> mV
Temperature	<u>8.9</u>	<u>7.5</u> C
pH	<u>7.45</u>	<u>7.21</u> SU
Specific Cond.	<u>1045</u>	<u>1222</u> uS
Turbidity	<u>4.54</u>	<u>13.9</u> NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>clear</u>	<u>clear</u>

% Recharge:

Initial Depth to Water 17.51 feet

Recharge Depth to Water 17.39 feet

2nd water column height _____ %

1st water column height _____

Elevation (Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W. Elevation = Top of Case Elev - Total Depth

Weather: 2C sunny

Observations: sulfur odor

Sampler:

Matt Broker

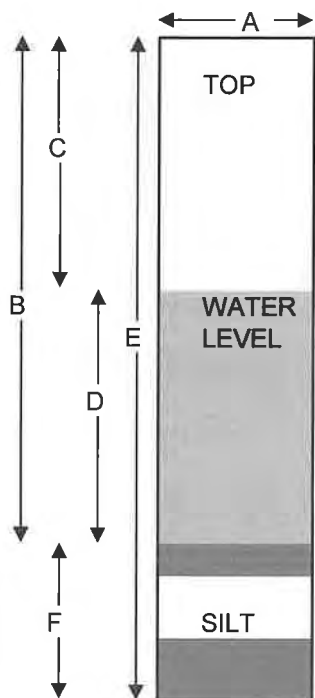
Signature: Matt Broker

PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-17S

PACE ID

Condition of Well: Good Locked: yes
 Method of Evacuation: Bailer Lock ID: _____
 Method of Sampling: Bailer



A.	Diameter of Well	<u>2</u>	inches
B.	Well Depth Measured	<u>29.40</u>	feet
C.	Depth to Water	<u>17.85</u>	feet
D.	Length of Water Column (calculated)	<u>11.55</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>1.85</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>5.55</u>	gallons
	Actual Volume Evacuated	<u>3.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>12/13/23</u>	<u>12/14/23</u>
Time	<u>10:40</u>	<u>10:15</u>
EH	<u>61</u>	<u>161</u> mV
Temperature	<u>8.5</u>	<u>5.9</u> C
pH	<u>7.17</u>	<u>7.18</u> SU
Specific Cond.	<u>1102</u>	<u>1158</u> uS
Turbidity	<u>68.1</u>	<u>38.5</u> NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>cloudy</u>	<u>cloudy</u>

% Recharge:

Initial Depth to Water 17.85 feet
 Recharge Depth to Water 17.81 feet
 2nd water column height _____ %
 1st water column height _____

Elevation(Top of Casing) N/A feet
 G.W. Elevation= N/A feet
 G.W.Elevation =Top of Case Elev-Total Depth

Weather: 2C sunny
 Observations: sample cloudy

Sampler: Matt Broker
 Signature: [Signature]

PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-27D

PACE ID

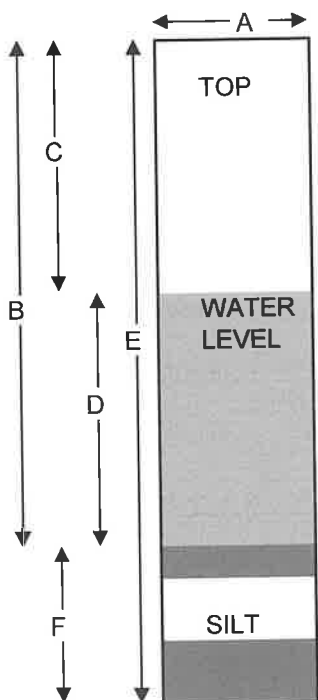
Condition of Well: Good

Locked: yes

Method of Evacuation: Bailer

Lock ID: _____

Method of Sampling: Bailer



A.	Diameter of Well	<u>2</u>	inches
B.	Well Depth Measured	<u>135.40</u>	feet
C.	Depth to Water	<u>37.08</u>	feet
D.	Length of Water Column (calculated)	<u>98.32</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>15.73</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>47.19</u>	gallons
	Actual Volume Evacuated	<u>47.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>12/13/23</u>	<u>12/14/23</u>
Time	<u>12:45</u>	<u>12:25</u>
EH	<u>25</u>	<u>125</u> mV
Temperature	<u>11.4</u>	<u>8.3</u> C
pH	<u>7.74</u>	<u>7.91</u> SU
Specific Cond.	<u>379.9</u>	<u>393.8</u> uS
Turbidity	<u>7.05</u>	<u>15</u> NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>clear</u>	<u>slightly cloudy</u>

Weather: 3C sunny

Observations: sample clear

% Recharge:

Initial Depth to Water 37.08 feet

Recharge Depth to Water 37.10 feet

2nd water column height _____ %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Sampler:

Matt Broker

Signature: [Signature]

PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-27S

PACE ID

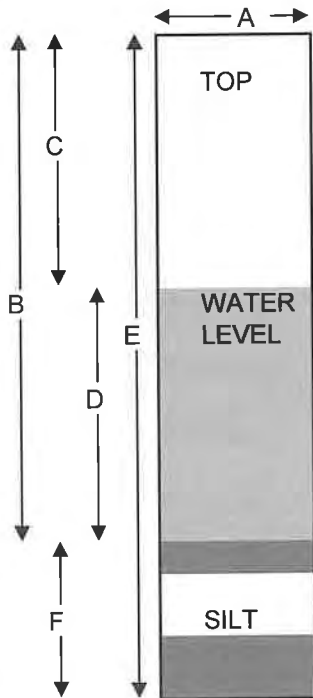
Condition of Well: Good

Locked: yes

Method of Evacuation: Bailer

Lock ID:

Method of Sampling: Bailer



A.	Diameter of Well	<u>2</u>	inches
B.	Well Depth Measured	<u>44.28</u>	feet
C.	Depth to Water	<u>37.21</u>	feet
D.	Length of Water Column (calculated)	<u>7.07</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>1.13</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>3.39</u>	gallons
	Actual Volume Evacuated	<u>3.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>12/13/23</u>	<u>12/14/23</u>
Time	<u>12:50</u>	<u>12:15</u>
EH	<u>264</u>	<u>89</u> mV
Temperature	<u>10.8</u>	<u>9.4</u> C
pH	<u>7.01</u>	<u>6.89</u> SU
Specific Cond.	<u>1532</u>	<u>1514</u> uS
Turbidity	<u>53.1</u>	<u>6.71</u> NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>cloudy</u>	<u>clear</u>

% Recharge:

Initial Depth to Water 37.21 feet

Recharge Depth to Water 37.14 feet

2nd water column height %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation=N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Matt Broker
 Signature: Matt

Weather: 3C sunny

Observations: sample clear

PACE ANALYTICAL INC.
FIELD CALIBRATION SHEET

DATE: 12/13/23 **SITE:** Al Turi Landfill
TECHNICIAN: Matt Broker **WEATHER:** 1C sunny

INSTRUMENT:

PH	Myron Ultrameter II 6PFCe	524
CONDUCTIVITY	Myron Ultrameter II 6PFCe	524
TEMPERATURE	Myron Ultrameter II 6PFCe	524
DISSOLVED OXYGEN	Sper Scientific 850041	
TURBIDITY	Hanna HI 98703	

INSTRUMENT ANALYTE	STANDARD	INITIAL READING	ADJUSTED READING	TIME	NOTES
Ph	4.00	4.07	4.00	902	
	7.00	7.04	7.00	900	
	10.00	10.10	10.00	904	
Conductivity	1413	1417	1413	906	
Turbidity	<0.10	0.12	0.1	907	
	15	15.1	15	908	
	100	104	100	909	
	750	752	750	910	

NOTES:



Sample Receiving Non-Conformance Form (NCF)

Date: 12/15/20	Evaluated by: JP
Client: Alturi	

Affix	WO#: 70281160	Label
Wc	PM: KMM	Due Date: 01/02/24
	CLIENT: ALTURI	

1. If Chain-of-Custody (COC) is not received: contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

2. If COC is incomplete, check applicable issues below and add details where appropriate:

Collection date/time missing or incorrect	Analyses or analytes: missing or clarification needed	Samples listed on COC do not match samples received (missing, additional, etc.)
Sample IDs on COC do not match sample labels	Required trip blanks were not received	Required signatures are missing

Comments/Details/Other Issues not listed above:

3. Sample integrity issues: check applicable issues below and add details where appropriate:

Samples: Past holding time	Samples: Condition needs to be brought to lab personnel's attention (details below)	Preservation: Improper
Samples: Not field filtered	Containers: Broken or compromised	Temperature: not within acceptance criteria (typically 0-6C)
Samples: Insufficient volume received	Containers: Incorrect	Temperature: Samples arrived frozen
Samples: Cooler damaged or compromised	Custody Seals: Missing or compromised on samples, trip blanks or coolers	Vials received with improper headspace
Samples: contain chlorine or sulfides	Packing Material: Insufficient/Improper	Other:

Comments/Details:

Headspace in the BP3U retrieved for alkalinity
For the MS/MOD, only TDS, Cl, NO₃/NO₂, Bromide and BOD5 along with 9060 analysis were reviewed

4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:

Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:

5. Client Contact: If client is contacted for any issue listed above, fill in details below:

Client:	Contacted per:
PM Initials:	Date/Time:

Client Comments/Instructions:



Microbac Laboratories Inc., - Marietta, OH

Client Project ID:

70281160

For:

Wayne Bryce

Pace Analytical Melville

575 Broad Hollow RD

Melville, NY 11747

Project State of Origin: New York

Project Requested Certification:

Microbac Laboratories Inc., - Marietta, OH

10861

NY State Department of Health

All test results meet the requirements of the QAPP and other applicable contract terms and conditions. Any exceptions are attached to this cover page or addressed in the method narratives presented in the report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. The reported results are related only to the samples analyzed as received. This laboratory report may be released as a hardcopy and in computer-readable form submitted electronically or on diskette. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories, Inc.

Laboratory Project Manager:

Michelle Taylor

Project Manager

Michelle.Taylor@microbac.com

Authorized By:

Michelle Taylor

Project Manager

Issued: 01/04/2024

Microbac Laboratories, Inc.

158 Starlite Drive | Marietta, OH 45750 | 800.373.4071 p | www.microbac.com



Laboratory Report Number: M3L1286

Client Project ID: 70281160

Cooler Receipt Log

Cooler ID: Default Cooler

Temp: 2.4°C

Cooler Inspection Checklist

Ice Present or not required?	Yes
Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes
Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes
Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes
Sample type identified on COC?	Yes
Correct type of Containers Received	Yes
Correct number of containers listed on COC?	Yes
Containers Intact?	Yes
COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes
Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes
Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes
Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes



Laboratory Report Number: M3L1286

Client Project ID: 70281160

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: MW-1		Collection Date: 12/14/2023 13:20				
Laboratory ID: M3L1286-01		Prep Date: 12/27/2023 09:10				
Matrix: Aqueous		Analyzed: 12/29/2023 11:15				
Batch / Sequence: B3L1204 /		Analytical Method: EPA 420.1		Calibration: NA		
Instrument: UV-2600		Units: mg/L		File ID: Phenols_UV2600_2023-11-06_B3L1204_2		
Analyst: APH		Dilution: 1.1		31229092305.xls		
Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	0.0135	0.0028	0.0055		



Laboratory Report Number: M3L1286

Client Project ID: 70281160

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: MW-3A			Collection Date: 12/14/2023 08:15			
Laboratory ID: M3L1286-02			Prep Date: 12/27/2023 09:10			
Matrix: Aqueous			Analyzed: 12/29/2023 11:15			
Batch / Sequence: B3L1204 /		Analytical Method: EPA 420.1		Calibration: NA		
Instrument: UV-2600		Units: mg/L		File ID: Phenols_UV2600_2023-11-06_B3L1204_2		
Analyst: APH		Dilution: 1.1		31229092305.xls		
Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	0.0105	0.0028	0.0055		



Laboratory Report Number: M3L1286

Client Project ID: 70281160

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: MW-8D		Collection Date: 12/14/2023 08:30				
Laboratory ID: M3L1286-03		Prep Date: 12/27/2023 09:10				
Matrix: Aqueous		Analyzed: 12/29/2023 11:15				
Batch / Sequence: B3L1204 /		Analytical Method: EPA 420.1		Calibration: NA		
Instrument: UV-2600		Units: mg/L		File ID: Phenols_UV2600_2023-11-06_B3L1204_2		
Analyst: APH		Dilution: 1.1		31229092305.xls		
Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	0.0045	0.0028	0.0055	J	



Laboratory Report Number: M3L1286

Client Project ID: 70281160

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: MW-10D		Collection Date: 12/14/2023 08:55				
Laboratory ID: M3L1286-04		Prep Date: 12/27/2023 09:10				
Matrix: Aqueous		Analyzed: 12/29/2023 11:15				
Batch / Sequence: B3L1204 /		Analytical Method: EPA 420.1		Calibration: NA		
Instrument: UV-2600		Units: mg/L		File ID: Phenols_UV2600_2023-11-06_B3L1204_2		
Analyst: APH		Dilution: 1.1		31229092305.xls		
Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	0.0082	0.0028	0.0055		



Laboratory Report Number: M3L1286

Client Project ID: 70281160

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: MW-7S		Collection Date: 12/14/2023 09:25				
Laboratory ID: M3L1286-05		Prep Date: 12/27/2023 09:10				
Matrix: Aqueous		Analyzed: 12/29/2023 11:15				
Batch / Sequence: B3L1204 /		Analytical Method: EPA 420.1		Calibration: NA		
Instrument: UV-2600		Units: mg/L		File ID: Phenols_UV2600_2023-11-06_B3L1204_2		
Analyst: APH		Dilution: 1.1		31229092305.xls		
Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	0.0075	0.0028	0.0055		



Laboratory Report Number: M3L1286

Client Project ID: 70281160

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: MW-6DA			Collection Date: 12/14/2023 09:55			
Laboratory ID: M3L1286-06			Prep Date: 12/27/2023 09:10			
Matrix: Aqueous			Analyzed: 12/29/2023 11:15			
Batch / Sequence: B3L1204 /		Analytical Method: EPA 420.1		Calibration: NA		
Instrument: UV-2600		Units: mg/L		File ID: Phenols_UV2600_2023-11-06_B3L1204_2		
Analyst: APH		Dilution: 1.1		31229092305.xls		
Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	0.0086	0.0028	0.0055		



Laboratory Report Number: M3L1286

Client Project ID: 70281160

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: MW-6S		Collection Date: 12/14/2023 09:45				
Laboratory ID: M3L1286-07		Prep Date: 12/27/2023 09:10				
Matrix: Aqueous		Analyzed: 12/29/2023 11:15				
Batch / Sequence: B3L1204 /		Analytical Method: EPA 420.1		Calibration: NA		
Instrument: UV-2600		Units: mg/L		File ID: Phenols_UV2600_2023-11-06_B3L1204_2		
Analyst: APH		Dilution: 1.1		31229092305.xls		
Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	0.0094	0.0028	0.0055		



Laboratory Report Number: M3L1286

Client Project ID: 70281160

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: MW-17D		Collection Date: 12/14/2023 10:25				
Laboratory ID: M3L1286-08		Prep Date: 12/27/2023 09:10				
Matrix: Aqueous		Analyzed: 12/29/2023 11:15				
Batch / Sequence: B3L1204 /		Analytical Method: EPA 420.1		Calibration: NA		
Instrument: UV-2600		Units: mg/L		File ID: Phenols_UV2600_2023-11-06_B3L1204_2		
Analyst: APH		Dilution: 1.1		31229092305.xls		
Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	0.0079	0.0028	0.0055		



Laboratory Report Number: M3L1286

Client Project ID: 70281160

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: MW-17S		Collection Date: 12/14/2023 10:15				
Laboratory ID: M3L1286-09		Prep Date: 01/03/2024 08:26				
Matrix: Aqueous		Analyzed: 01/04/2024 15:06				
Batch / Sequence: B4A0053 /		Analytical Method: EPA 420.1		Calibration: NA		
Instrument: UV-2600		Units: mg/L		File ID: Phenols_UV2600_2023-11-06_B4A0053_2		
Analyst: APH		Dilution: 1.1		40104104443.xls		
Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	0.0037	0.0028	0.0055	J	



Laboratory Report Number: M3L1286

Client Project ID: 70281160

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: MW-5D		Collection Date: 12/14/2023 11:15				
Laboratory ID: M3L1286-10		Prep Date: 01/03/2024 08:26				
Matrix: Aqueous		Analyzed: 01/04/2024 15:06				
Batch / Sequence: B4A0053 /		Analytical Method: EPA 420.1		Calibration: NA		
Instrument: UV-2600		Units: mg/L		File ID: Phenols_UV2600_2023-11-06_B4A0053_2		
Analyst: APH		Dilution: 1.1		40104104443.xls		
Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	0.0034	0.0028	0.0055	J	



Laboratory Report Number: M3L1286

Client Project ID: 70281160

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: MW-5S		Collection Date: 12/14/2023 11:00				
Laboratory ID: M3L1286-11		Prep Date: 01/03/2024 08:26				
Matrix: Aqueous		Analyzed: 01/04/2024 15:06				
Batch / Sequence: B4A0053 /		Analytical Method: EPA 420.1		Calibration: NA		
Instrument: UV-2600		Units: mg/L		File ID: Phenols_UV2600_2023-11-06_B4A0053_2		
Analyst: APH		Dilution: 1.1		40104104443.xls		
Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	0.0030	0.0028	0.0055	J	



Laboratory Report Number: M3L1286

Client Project ID: 70281160

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: MW-27D		Collection Date: 12/14/2023 12:25				
Laboratory ID: M3L1286-12		Prep Date: 01/03/2024 08:26				
Matrix: Aqueous		Analyzed: 01/04/2024 15:06				
Batch / Sequence: B4A0053 /		Analytical Method: EPA 420.1		Calibration: NA		
Instrument: UV-2600		Units: mg/L		File ID: Phenols_UV2600_2023-11-06_B4A0053_2		
Analyst: APH		Dilution: 1.1		40104104443.xls		
Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	ND	0.0028	0.0055		



Laboratory Report Number: M3L1286

Client Project ID: 70281160

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: MW-27S		Collection Date: 12/14/2023 12:15				
Laboratory ID: M3L1286-13		Prep Date: 01/03/2024 08:26				
Matrix: Aqueous		Analyzed: 01/04/2024 15:06				
Batch / Sequence: B4A0053 /		Analytical Method: EPA 420.1		Calibration: NA		
Instrument: UV-2600		Units: mg/L		File ID: Phenols_UV2600_2023-11-06_B4A0053_2		
Analyst: APH		Dilution: 1.1		40104104443.xls		
Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	0.0041	0.0028	0.0055	J	



Laboratory Report Number: M3L1286

Client Project ID: 70281160

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: MW-9D		Collection Date: 12/14/2023 13:00				
Laboratory ID: M3L1286-14		Prep Date: 01/03/2024 08:26				
Matrix: Aqueous		Analyzed: 01/04/2024 15:06				
Batch / Sequence: B4A0053 /		Analytical Method: EPA 420.1		Calibration: NA		
Instrument: UV-2600		Units: mg/L		File ID: Phenols_UV2600_2023-11-06_B4A0053_2		
Analyst: APH		Dilution: 1.1		40104104443.xls		
Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	0.0079	0.0028	0.0055		



Laboratory Report Number: M3L1286

Client Project ID: 70281160

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: MW-9S		Collection Date: 12/14/2023 12:45				
Laboratory ID: M3L1286-15		Prep Date: 01/03/2024 08:26				
Matrix: Aqueous		Analyzed: 01/04/2024 15:06				
Batch / Sequence: B4A0053 /		Analytical Method: EPA 420.1		Calibration: NA		
Instrument: UV-2600		Units: mg/L		File ID: Phenols_UV2600_2023-11-06_B4A0053_2		
Analyst: APH		Dilution: 1.1		40104104443.xls		
Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	0.0049	0.0028	0.0055	J	



Laboratory Report Number: M3L1286

Client Project ID: 70281160

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: FB-01			Collection Date: 12/14/2023 13:40			
Laboratory ID: M3L1286-16			Prep Date: 01/03/2024 08:26			
Matrix: Aqueous			Analyzed: 01/04/2024 15:06			
Batch / Sequence: B4A0053 /		Analytical Method: EPA 420.1		Calibration: NA		
Instrument: UV-2600		Units: mg/L		File ID: Phenols_UV2600_2023-11-06_B4A0053_2		
Analyst: APH		Dilution: 1.1		40104104443.xls		
Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	0.0168	0.0028	0.0055		



Laboratory Report Number: M3L1286

Client Project ID: 70281160

Notes and Definitions

J: The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

mg/L: Milligrams per Liter

MDL: Method Detection Limit

RL: Reporting Limit

Chain of Custody

PASI New York Laboratory



Workorder: 70281160

Workorder Name:

OPERATIONAL WELLS 12/14

Results Requested By: 1/4/2024

Report/Invoice To:

Subcontract To:

Requested Analysis

Kimberley M. Mack
Pace Analytical Melville
575 Broad Hollow Road
Melville, NY 11747
Phone 516-370-6052
Email: kimberley.mack@pacelabs.com

Microbac Laboratories, Inc.
158 Stanille Drive
Marietta, OH 45750

P.O. 70281160KMM

Send Invoice To: invoices@pacelabs.coupanhost.com
State of Sample Origin: NY

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Phenols											LAB USE ONLY
1	MM-1	12/14/2023 13:20	70281160001	Water			X										
2	MM-3A	12/14/2023 08:15	70281160002	Water			X										
3	MM-8D	12/14/2023 08:30	70281160003	Water			X										
4	MM-10D	12/14/2023 08:55	70281160004	Water			X										
5	MM-7S	12/14/2023 09:25	70281160005	Water			X										
6	MM-6DA	12/14/2023 09:55	70281160006	Water			X										
7	MM-6S	12/14/2023 09:45	70281160007	Water			X										
8	MM-17D	12/14/2023 10:25	70281160008	Water			X										
9	MM-17S	12/14/2023 10:15	70281160009	Water			X										
10	MM-5D	12/14/2023 11:15	70281160010	Water			X										
11	MM-5S	12/14/2023 11:00	70281160011	Water			X										
12	MM-27D	12/14/2023 12:25	70281160012	Water			X										
13	MM-27S	12/14/2023 12:15	70281160013	Water			X										
14	MM-9D	12/14/2023 13:00	70281160014	Water			X										
15	MM-9S	12/14/2023 12:45	70281160015	Water			X										
16	FB-01	12/14/2023 13:40	70281160016	Water			X										
17																	
18																	
19																	
20																	

Pace Analytical - Melville, NY
Rec'd 12/20/2023 11:30
By: Stephanie Murphy

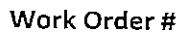
Temp: 24

(Signature)



M 3 L 1 2 8 6

					Comments	
Transfers	Released By	Date/Time	Received By	Date/Time		
1	<i>[Signature]</i>	12/19/23 1:00	<i>[Signature]</i>			
2						
3						
Cooler Temperature on Receipt		°C	Custody Seal Y or N	Received on Ice Y or N	Samples Intact Y or N	

[illegible]

pH Lot # AC318549

pH

Exceptions

[illegible]

PRESERVATIVE EXCEPTIONS

☒ NONE

AS NOTED

12/20/2023 SW

**APPENDIX B-6: 2024 POST CLOSURE ANNUAL REPORT, AL TURI
LANDFILL DATED MARCH 4, 2025**

Al Turi Landfill, Inc.

2024 Post Closure Annual Report

Al Turi Landfill



209-4253170

March 4, 2025



2024 Post Closure Annual Report

Al Turi Landfill

March 4, 2025

209-4253170

PRESENTED TO

Al Turi Landfill, Inc.

73 Hartley Road
Goshen, NY 10924

PRESENTED BY

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REPORT CERTIFICATION

I certify, under penalty of law, that the material in this report was prepared under my supervision and direction. The data was collected and provided by others and not field verified. I am aware that any false statement I make in such report is punishable pursuant to section 71-2703(2) of the Environmental Conservation Law and section 210.45 of the Penal Law.



Prentiss A. Shaw, P.E.
Certifying Engineer



3/4/25



Diane Conroy
Project Manager

3/4/25

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1.0 INTRODUCTION

The 2024 Post-Closure Annual Report required as per 6 NYCRR Part 360.19(k)(3) and Part 360.22(b)(3) summarizes the maintenance and monitoring activities reportedly conducted at the AI Turi Landfill (landfill) for Post-Closure Year 21, January 1, 2024 through December 31, 2024. It is important to note that the activities reported herein were communicated to us by the owner and have not been independently verified. Among the items discussed in this report are:

- Final Cover Maintenance
- Leachate Management
- Landfill Gas Management
- Condensate Analysis
- Water Quality Management Program
- Post Closure Update

The landfill stopped accepting waste in 2003 and final cover for the last operational area was completed in December 2003. The landfill was capped in stages with the first area capped in 1990. The 30-year post-closure period for the facility began on January 1, 2004.

Sheet No.1, Site Plan, depicts key features of the facility including dates of final closure for each prior operating area. The Plan also incorporates a lot line adjustment which was completed for the property in 2016. The Site Plan has remained unchanged since it was originally developed in 2019.

It should be noted that in 2017 the management of the AI Turi Landfill, Inc. (ATL) transitioned.

On September 13, 2018, ATL entered into a Consent Order with the New York State Department of Environmental Conservation (NYSDEC), which outlined several items that ATL continues to address:

1. Maintenance and operation of the leachate system
2. Maintenance of drainage structures & final cover system
3. Maintenance of gas venting structures

On February 3, 2021 ATL submitted a petition to NYSDEC for a reduction in the existing Water Quality Management Plan. On October 19, 2021, ATL received a response letter from NYSDEC approving many aspects of the petition, including annual monitoring for reduced parameters at each of the existing monitoring locations except the stormwater samples which were discontinued.

On December 29, 2020, ATL submitted a report to the NYSDEC and United States Environmental Protection Agency (USEPA) requesting removal from the monitoring and reporting requirements set forth in the New Source Performance Standards (NSPS) and the National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations. ATL continued monitoring and reporting in accordance with the requirements until they received email approval from the NYSDEC on July 28, 2021 to remove NSPS applicability and terminate the Facility's Title V Operating Permit. ATL is now operating under Air Facility Registration Certificate No. 3-3330-00002/00050 effective September 28, 2021. As per this Air Facility Registration Certificate, the monitoring, recordkeeping, and reporting requirement related to the GCCS were removed; however, ATL must continue to operate its GCCS.

2.0 FINAL COVER MAINTENANCE

2.1 BACKGROUND

The landfill final capping was constructed and placed in stages, which is shown on the Site Plan included with this Report. The Site Plan illustrates the different areas capped and their respective certification dates.

In general, the longer a final cover system is in place, the less maintenance it requires as vegetation becomes more established and the decomposition process of the waste mass slows. This concept applies as long as regular maintenance occurs immediately following closure. Ultimately, this aids in reducing areas of localized settlement.

Generally, final cover costs can be developed according to the duration an area of the landfill has been closed. In previous Annual Reports, this has been presented as a percentage of the annual repair cost. This approach has been used since 1996 for ATL and has been previously discussed with the NYSDEC.

Generally, it has been determined that maintenance costs associated with final cover systems (cover soils, vegetation, and drainage) decrease to zero after the closure year 10. because, typically, the majority of settlement occurs within the first 10 years after landfill closure. However, there is a small area at the landfill that is in need of repair as a result of settlement. It should be noted that this portion of the landfill was one of the last areas to be capped in 2003. The settlement was noted as item 8(iii) of the Consent Order signed in 2018.

2.2 GENERAL MAINTENANCE

General maintenance of the final cover system includes monitoring the integrity of the existing cover soils and existence of established vegetation on the landfill. Outside of the inspections performed in the settlement area that will be part of the regrading efforts, Cornerstone is unaware whether there have been any inspections or maintenance conducted.

ATL submitted a letter, dated December 20, 2018, to the NYSDEC outlining the proposed approach to execute the repairs and requesting approval. On October 20, 2021, a proposal for a modified approach was submitted to the NYSDEC, which was conditionally approved on November 30, 2021. ATL finalized an agreement with a subcontractor for the settlement repairs to be completed in 2025.

3.0 LEACHATE MANAGEMENT

3.1 PRIMARY AND SECONDARY COLLECTION

The leachate collection system was designed so that leachate is collected from the permitted landfill at three locations: Area 11 pump house, Areas 12 and 13 pump house, and Areas 1-8 manhole. When operating as designed, collected leachate is pumped to two (2) leachate storage lagoons, located adjacent to the former leachate treatment plant. Historically, totalizing flow meters were utilized to measure the leachate flow from the three areas and data collected by ATL personnel. Data from these flowmeters is not available for 2024 and the leachate collections system is currently being operated in a manual mode. ATL management is working with TAM Enterprises, Inc. (TAM) to operate and maintain the leachate collection system.

ATL has retained TAM to address the leachate related items in the Consent Order. During 2024, TAM hauled approximately 176,600 gallons of leachate from the storage lagoons and 432,700 gallons of leachate from the primary and secondary collection systems. As the information related to the leachate management system has been verbally conveyed by TAM and ATL management, Cornerstone is unable to verify the information presented in this Section.

Table 3-1 summarizes the volume of leachate, in gallons, pumped from the leachate lagoons and collection system.

3.1.1 Area 11

Historically, leachate from Landfill Area 11 was measured by totalizing meters located at the Area 11 pump station valve box. The tributary baseliner area to the Area 11 pump station is 5.4 acres. Since Area 11 is a double composite-lined cell, there are two totalizing meters (one which records flow from the secondary system and another that records the combined primary and secondary flow) at this location. Based on discussions with ATL, the flowmeters were not functioning in 2024.

3.1.2 Areas 9, 10, 12, & 13

Historically, leachate collected from the double composite lined Landfill Areas 12 and 13 is measured at the Area 12 pump station valve box by a similar dual totalizing meter arrangement as used for Area 11. The tributary baseliner area to the Area 12 pump station is 12 acres. The combined (total) flow meter at this location also receives and measures flow from single composite-lined Landfill Areas 9 and 10. Based on discussions with ATL, the flowmeters were not functioning in 2024.

3.1.3 Areas 1-8

The remaining landfill areas (1, 2, 3, 4, 5, 6, 6C, 7, and 8) are tributary to a common leachate collection manhole on the north side of the landfill near the storage (equalization) lagoons. The tributary baseliner area to the Area 1 8 pump station is 36.6 acres. Since the baseliner areas at this location (identified above) have single soil liner systems, only one meter was installed. Based on discussions with ATL, the flowmeters were not functioning during 2024.

3.1.4 On-Site Leachate Treatment (LTP)

The on-site LTP was taken off-line on December 10, 2013. The treatment plant closure plan was approved by the NYSDEC in a letter dated April 7, 2014 and a Notice of Permit Discontinuance was issued by the NYSDEC on July 31, 2014 (copies of both letters were submitted as an appendix in the 2014 Post-Closure Annual Report).

Leachate collected at the landfill was transported to Passaic Valley Sewage Commission in Newark, NJ by TAM during 2024. During 2024, the total volume of liquid hauled off-site in 2024 was 609,300 gallons and is summarized in Table 3-1.

3.2 LEACHATE-MAINTENANCE COLLECTION SYSTEM AND LAGOONS

Due to the facility's capped and closed status, ATL proposes to continue to conduct flushing of the leachate collection lines on an as-needed basis. ATL did not conduct flushing of the leachate collection lines during 2024.

4.0 LANDFILL GAS SYSTEM AND MANAGEMENT

4.1 BACKGROUND

The landfill gas (LFG) collection and control system (GCCS) consists of landfill gas monitoring and extraction wells, landfill gas transmission pipes, and a condensate collection system across the closed landfill cells. Collected LFG is pulled to the enclosed landfill gas flare. The most recent gas collection system as-built plan (Sheet No. 2) is included with this report.

Since the Ameresco landfill gas to energy (LFGTE) plant shut down in 2019, ATL has become involved in the operation and maintenance of the flare. ATL and Ameresco installed a new flare control panel complete with an electronic shutoff notification system in early 2022.

On October 30, 2023, an agreement for ATL to take over ownership of the flare was signed. In November of 2023, TAM added an automatic flare restart system to the control panel in order to assist with the restart of the flare following downtimes experienced as a result of low methane content in the collected LFG.

It should be noted that the enclosed flare located at the landfill appears to be oversized for the landfill gas collected at the landfill. As a result, ATL and TAM stated the flare experienced repetitive automatic restarts during 2024 and only ran for a total of 50.5 hours.

4.2 GAS MIGRATION MONITORING

During 2024, Cornerstone conducted monitoring of landfill gas migration at the site. The results from these recent monitoring activities indicate that the percentage of methane recorded at the on-site gas migration monitoring probes (GM's and GMV's) complied with the applicable regulations outlined in 6 NYCRR Part 360. The locations of the landfill gas migration monitoring probes are illustrated in Figure 2, titled "Landfill Gas Collection System As-Built." The data collected in 2024 confirms that landfill gas migration is not occurring. Summaries of the quarterly gas migration monitoring reports can be found in Appendix A.

Landfill gas migration monitoring has been performed quarterly throughout the post-closure care period as per 6 NYCRR Part 360 regulations.

4.3 FUEL USAGE

At the request of the NYSDEC, a summary of the fuel usage by the Ameresco plant has historically been included as Table 4-1 with this report. Since Ameresco's LFGTE has been permanently shut down since 2019, Ameresco allowed their air permit to expire on January 8, 2022. Once the air permit expired, Ameresco was no longer required to record fuel usage. Therefore, the data to complete Table 4-1 was not collected after January of 2022.

4.4 CONDENSATE TANK

In 2001, a 300-gallon, double walled steel collection tank was installed below grade located behind the Area 11 pump station manhole to allow automatic and continuous collection and transport of accumulated liquid to the nearby Area 11 primary collection manhole. The condensate then flows with collected Area 11 leachate to the on-site leachate storage lagoons. Cornerstone did not inspect the condensate tank during 2024.

5.0 CONDENSATE ANALYSIS

Since 1991, ATL has owned and operated the landfill gas collection system. For many years, ATL has coordinated the sampling and analysis of the condensate generated by the system in accordance with Part 360 requirements. The system was designed for condensate to be collected in three on-site containment sumps and manually removed and deposited into the on-site leachate storage lagoons. It is unclear at what frequency this activity is being completed.

During 2024, a condensate sample was collected by a technician from Pace Analytical Services, Inc. (Pace). The sample was analyzed for the Part 360 routine parameters, and a summary of the results is provided within Section 7 of this Report.

6.0 GENERATION AND DISPOSAL OF ON-SITE TREATMENT PLANT SLUDGES

The on-site leachate treatment plant was decommissioned on December 10, 2013.

7.0 WATER QUALITY MANAGEMENT PLAN

The current water quality management program at the Al Turi Landfill includes the annual collection and analysis of groundwater, contained leachate, and sediment samples from locations in and around the facility and the evaluation of the data generated by these samples. The water quality management program generally follows the procedures presented in the July 2005 Environmental Monitoring Plan (EMP), which was approved by the New York State Department of Environmental Conservation (NYSDEC) in August 2005.

During 2020, ATL retained Cornerstone to prepare a Water Quality Evaluation Report. Cornerstone reviewed the groundwater, surface water, sediment, and leachate data submitted with ATL's Annual Reports between 2001 and 2016 provided by Groundwater Investigations, Inc. (GWI) (excluding data from 2004, which was not available at the time of this analysis) and the data from Pace Analytical Laboratories for the years 2017, 2018, and 2019. As a result of the conclusions made in the Water Quality Evaluation Report, finalized in October 2020, ATL submitted a petition to NYSDEC on February 3, 2021 to reduce some of the monitoring requirements.

On October 19, 2021, ATL received a response letter from NYSDEC approving a reduction from semi-annual to annual monitoring, a reduction from modified Part 360 baseline parameters to Part 363 routine parameters, and the discontinuation of surface water monitoring.

In November 2024, Pace Analytical was retained to sample and analyze water quality and sediment samples from locations in and around the facility. The subsections below summarize the results of the 2024 monitoring event.

7.1 CURRENT MONITORING PROGRAM

Currently, groundwater is sampled at 15 groundwater monitoring wells (10 shallow and 5 deep wells) located within the boundaries of the facility's property depicted on drawing No. 1. Well W-8D is designated as the upgradient background well for the facility. The shallow groundwater monitoring wells are screened in overburden material and the deep wells are screened in till/bedrock material. In accordance with the October 2021 approval, samples collected during the annual sampling event were analyzed for the routine parameter list. Below is a list of the current monitoring wells, with deep wells shown in *italics*:

W-1	<i>W-6DA</i>	<i>W-10D</i>
W-3A	W-7S	W-17S
W-5S	<i>W-8D</i>	W-17D
<i>W-5D</i>	W-9S	W-27S
W-6S	<i>W-9D</i>	W-27D

Sediment samples are collected from two locations in the Walkill River, upstream and downstream of the facility. Leachate samples are collected from the primary and secondary leachate collection systems. Similar to the groundwater analysis discussed above, the samples were analyzed for routine parameters.

In accordance with the requirements of Special Condition Nos. 36-38 of the facility's July 1997 Landfill Operating Permit and the July 2005 EMP, water quality data are compared with trigger values developed by the NYSDEC pursuant to Part 360-2.11(c)(5)(ii), and applicable water quality standards (6 NYCRR Part 703).

Previous Water Quality reports prepared by Groundwater Investigations, Inc. (GWI) provided details regarding the trigger values and their development. GWI's historical reports explained that the trigger values were developed using a limited database that was established for the Al Turi Landfill prior to the promulgation of regulations governing the collection of such data. The values were developed from 2 or 3 sampling events for baseline

parameters conducted in August through October 1983 from 3 overburden wells (W-5S, W-6S, and W-7S), and 2 bedrock wells (W-6D and W-8D). Well W-6D has since been replaced with well W-6DA. Additionally, operational trigger values for metals were calculated based on the dissolved fraction results from field filtered analyses. The Department values, or Part 703 State standards, whichever are higher, serve as the trigger values for monitoring at the AI Turi Landfill. According to GWI, the results of the limited pre-operational database and the presence of undetected values for many of the parameters do not constitute a “normal distribution” as required under the former Part 360 2.11(c)(5)(i)(c). Therefore, these values should therefore be applied with caution. However, given the limited available data, it was determined that the 1983 values represent the best available estimate of pre-operational water quality, and are suitable as a screening tool in the current monitoring program. The AI Turi Landfill began operation prior to the promulgation of the current regulations and as a result, certain aspects of the regulations cannot be strictly applied. Notable deviations are the absence of an adequate pre-operational database and the lack of expanded parameter data for many of the monitoring points.

Groundwater analytical data for 2024 are included as an attachment (Appendix B).

7.2 GROUNDWATER

7.2.1 Groundwater Monitoring Wells

The data that was obtained during the 2024 sampling event for the overburden wells indicate that several parameters exceeded established trigger values or Part 703 State standards. Exceedances noted during 2024 include: hardness (2 wells); ammonia (2 wells); calcium (3 wells); alkalinity (2 wells); chloride (8 wells); TDS (8 wells); arsenic (4 wells); iron (14 wells); manganese (6 wells); and sodium (9 wells). The exceedances are further explained in the bullets below:

- Hardness exceeded its trigger value at wells W-9S and W-10D, and ammonia exceeded its trigger value at wells W-1 and W-6S; however, the reported concentrations were consistent with historical results.
- Calcium exceeded its trigger value at wells W-9S, W-10D and W-8D, and alkalinity exceeded its trigger value at wells W-9S and W-10D; however, the reported concentrations were consistent with historical results.
- Chloride exceeded its trigger value at numerous wells; however, the reported concentrations were consistent with historical results. It should be noted that chloride concentrations at W-8D, the upgradient well, have shown increased concentrations since 2016.
- Iron, manganese, sodium, and TDS were reported at concentrations above their respective trigger values and the Part 703 Standards at numerous wells; however, the reported concentrations were consistent with historical results.
- Arsenic was reported above its trigger value and Part 703 standard at wells W-5S, W-9S and W-17S; however, the reported concentrations were consistent with historical results.

Wells W-6S, W-9S and W-17S were historically included as part of contingency monitoring for arsenic and W-1 was historically included for contingency monitoring of benzene. As a result of the recent NYSDEC-approved changes made to the monitoring program, these wells are now part of the currently approved sampling program as described in Section 7.1. As stated above, arsenic was detected above its trigger value in wells W-9S and W-17S in 2024.

The data obtained in 2024 for the 5 deep monitoring wells indicate that several parameters exceeded established trigger values. Parameters that exceeded trigger values in 2024 include: alkalinity, arsenic, calcium, chloride, hardness, iron, manganese, sodium, and TDS.

The reported concentrations for the deep well exceedances mentioned above are consistent with historical results.

7.3 SURFACE WATER/SEDIMENT QUALITY

In accordance with the NYSDEC approval dated October 19, 2021, surface water sampling was discontinued.

Sediment samples were collected from the landfill side bank of the Walkill River. Review of the 2024 data indicates that concentrations vary between sampling events and overall conditions downstream of the landfill are similar to conditions observed upstream of the landfill. The 2024 sediment data is also included in Appendix B.

7.4 LEACHATE MONITORING

In accordance with the EMP, samples are obtained from the primary and secondary leachate collection system associated with Areas 11, 12, and 13 (includes Areas 9 and 10) of the landfill. Because leachate from Area 13 drains into Area 12, the common primary and secondary monitoring points for these areas are sampled. Additionally, leachate from Areas 9 and 10, which are underlain with a single composite baseliner and are not equipped with a secondary collection system, drain to the primary collection system associated with Area 13 and then to Area 12.

Analytical results for the samples collected from the leachate collection system are provided in Appendix B. Samples collected from the primary collection systems are designated LCH-11P and LCH-12P. Samples from the secondary collection systems are designated LCH-11S and LCH-12S. With the exception described below, the 2024 primary and secondary leachate results remain generally consistent with historical results.

During 2024, the concentrations reported from the LCH-11P sample were lower than concentrations reported from the LCH-11S sample. However, the concentrations reported from the LCH-11S samples are consistent with those reported from the LCH-12S sample.

7.5 IRON FLOC

Historical reports prepared by GWI indicate that the Walkill River has been identified as a groundwater discharge area for shallow groundwater flowing beneath the Al Turi Landfill site. These historical reports have indicated that during periods of abnormally low flow conditions, seepage of shallow groundwater has been observed along the banks of the Walkill River. Historically, orange staining has been observed at some of these seepage points, which has proven to be characteristic of iron oxidation. As stated in historical reports, past sampling of these seeps has suggested that the seepage water reflects observed shallow groundwater quality and is not the result of direct leachate seepage from the landfill.

Iron floc sampling was not conducted during 2024.

7.6 WATER QUALITY CONCLUSIONS

The water quality management program at the Al Turi landfill generally follows the procedures presented in the July 2005 EMP, and includes the recent reductions approved by the NYSDEC in October 2021. The facility has completed closure and is in the post-closure period and monitoring at the site. As stated by GWI and described above, the trigger values established in 1983 and used for comparison to current water quality data are based upon a limited data set and do not constitute a “normal distribution” as required under the former Part 360 2.11(c)(5)(i)(c) regulations. However, given the limited available data, it was determined that the 1983 trigger values represent the best available estimate of pre-operational water quality for use in the monitoring program. Given the above, exceedances of the trigger values are not unexpected and the results are also compared to

historical data at each location. In 2024, sampling was completed in November and the following bullets summarize the results.

- The 2024 groundwater and surface water results remain generally consistent with historical results. Some exceedances of the trigger values and Part 703 Standards were noticed in the groundwater samples. A number of exceedances observed for parameters such as iron, manganese, and sodium are likely due to natural groundwater quality rather than a landfill related impact.
- The 2024 results associated with the former contingency wells remain generally consistent with historical results. Recent arsenic and benzene data suggest that concentrations for each of the former contingency wells have stabilized. Benzene has not been observed in well W-1 since 2010.
- The 2024 primary and secondary leachate results remain generally consistent with historical results. As mentioned by GWI in historical reports, usually the concentrations in the primary samples are higher than those in the secondary samples but there are exceptions. During 2024, concentrations reported in the Area 11 secondary samples were higher than those reported in the Area 11 primary samples.
- Based on previous reports prepared by GWI, it has been determined that groundwater from beneath the landfill discharges to the Walkill River, and historical surface water data indicates no significant change in water quality has occurred in the Walkill River as a result of historical landfill operations. The NYSDEC has approved the discontinuation of surface water sampling as of October 19, 2021.
- During 2024, iron floc sampling was not conducted.

8.0 POST CLOSURE COST ESTIMATE

The post-closure period for the Al Turi Landfill (ATL) started on January 1, 2004. As of the end of 2024, ATL completed its 21st year of post-closure. Going forward, 2025 is the 22nd year of post-closure and the total estimated post-closure costs for the facility for Post Closure Years 22 through 30 is \$1,975,179. Including the 15% contingency, requested by NYSDEC, the amount \$2,073,937.

The post-closure cost estimate for the ATL has been updated using inflated established costs and current year costs, and a remaining 30-year post closure period with an additional twenty (20) years representing the Rolling 30-year period. The total 30-year estimated post-closure costs for the remaining post closure period including the rolling period is \$5,155,761, and \$5,413,549 with the 15% contingency

As a result of item 8(iii) of the Consent Order signed in 2018, ATL shall repair a portion of the landfill cap that has experienced significant settlement. An estimated cost to repair the depression caused by the landfill settlement has been included in the post closure cost estimate, attached as Table 8-1. As described in Section 2.1, ATL has retained a subcontractor to begin the construction activities associated with the repairs.

No reductions have been made to the leachate management items because the system is still being operated manually.

During the preparation of Table 8-1, the U.S. Department of Commerce Implicit Price Deflator for Gross Domestic Product was used to account for inflation as necessary. This meets the post closure cost estimate requirements set forth in 360-2.19(c).

9.0 LIMITATIONS

The work product included in the attached was undertaken in full conformity with generally accepted professional consulting principles and practices and to the fullest extent as allowed by law we expressly disclaim all warranties, express or implied, including warranties of merchantability or fitness for a particular purpose. The work product was completed in full conformity with the contract with our client and this document is solely for the use and reliance of our client (unless previously agreed upon that a third party could rely on the work product) and any reliance on this work product by an unapproved outside party is at such party's risk.

The work product herein (including opinions, conclusions, suggestions, etc.) was prepared based on the situations and circumstances as found at the time, location, scope and goal of our performance and thus should be relied upon and used by our client recognizing these considerations and limitations. Cornerstone Environmental Group, PLLC shall not be liable for the consequences of any change in environmental standards, practices, or regulations following the completion of our work and there is no warrant to the veracity of information provided by third parties, or the partial utilization of this work product.

TABLES

Table 3-1	Annual Leachate Collection Summary
Table 8-1	Post-Closure Cost Estimate

TABLE 3-1
Al Turi Landfill, Inc.
2024 Annual Report
Annual Leachate Collection Summary

Area 1/8 - 36.6 ac
Area 9,10,12,13 -12 ac
Area 11 - 5.4 ac

Year		Combined Metered Inflow								Hauled Off Site
	Precip.	Area 11			Area 9,10,12,13			Area 1-8		
	(In.)	(Gal)	Gallons Per Acre Per Day		(Gal)	Gallons Per Acre Per Day		(Gal)	Gallons Per Acre Per Day	(Gal)
			Prim.	Sec.		Prim.	Sec.		Primary	
2024	36.06	Flowmeter Data Unavailable								609,300
2023	52.46	Flowmeter Data Unavailable								197,900
2022	29.40	Flowmeter Data Unavailable								336,796
2021	23.20	Flowmeter Data Unavailable								501,450
2020	29.69	Flowmeter Data Unavailable								398,000
2019	35.79	Flowmeter Data Unavailable								692,400
2018	51.33	Flowmeter Data Unavailable								1,248,072
2017*	1.60									199,800
2016	32.49	29,104	15	0.1	218,443	51	5.4	1,447	0.1	784,100
2015	36.01	66,945	45	0.2	217,955	58	3.8	18,949	1.6	989,500

*Denotes only December 2017 information

ATL Notes:

- a) Leachate from gas wells and condensate are included in "Hauled Off-Site" values.
- b) Leachate was hauled to the Passaic County Wastewater Treatment Plant for treatment.

Additional Notes:

- a) Data supplied by ATL personnel.
- b) The 2024 total precipitation was tabulated from data obtained from the website <https://w2.weather.gov/climate> for Montgomery, NY, 2024 precipitation totals
- c) Flowmeters were non-operational from 2017 - 2024.

TABLE 8-1
Al Turi Landfill, Inc.
2024 Annual Report
Post Closure Cost Estimate ⁽¹⁾
Landfill B (53.6 ac.)

Item		2025	2025-2033 (9)	30 YR PC TOTAL	2034-2054(10)	
	Post Closure Year	Year 22	Year 22-30	(PC yrs 21-30) ⁽¹²⁾	(yrs 31 - 50)	ROLLING 30
	Rolling 30 years	Year 1	Average	Year 1-9	Year 10-30	YEAR TOTAL
Groundwater Monitoring ⁽²⁾		\$13,290	\$13,258	\$119,608	\$13,290	\$398,693
Final Cover Repair ⁽³⁾		\$313,000	\$0	\$313,000	\$0	\$313,000
Vegetative Repair ⁽³⁾		\$0	\$0	\$0	\$0	\$0
Mowing ⁽⁴⁾		\$8,689	\$8,689	\$78,199	\$8,689	\$260,662
Monitoring Well Inspection Report and Repair ⁽⁵⁾		\$0	\$0	\$0	\$0	\$0
Drainage System Inspection and Repair ⁽³⁾		\$0	\$0	\$0	\$0	\$0
Leachate Collection System Operation, Maintenance, and Cleaning ⁽⁶⁾		\$35,971	\$52,365	\$470,772	\$43,778	\$1,390,106
Gas Collection System Maintenance and Repair ⁽⁷⁾		\$10,000	\$10,000	\$90,000	\$10,000	\$300,000
Leachate Treatment ⁽⁸⁾		\$136,800	\$87,210	\$735,300	\$57,000	\$1,932,300
Engineering Observation and Certification ⁽¹¹⁾		\$18,700	\$18,700	\$168,300	\$18,700	\$561,000
TOTAL		\$536,450	\$252,822	\$1,975,179	\$151,456	\$5,155,761

Notes:

1) All costs are in 2024\$.

2) Cost obtained from quote provided by Pace Analytical for reduced annual monitoring as a result of the Water Quality Management petition approved in Oct 2021. Assume annual monitoring continues beyond initial 30 year period.

3) 2013 was the final year in the 10 year maintenance program. Cost assumed to be \$0 for every year after the 10 year maintenance program. In 2025, one time cost to repair settlement in landfill cover. Subcontractor's estimate (TAM Enterprises, Inc dated 11-13-23) based on survey data and regrading/repair plan conditionally approved by NYSDEC.

4) Mowing cost is 2022 actual cost incurred, inflated to 2024\$.

5) Repairs have not been needed throughout post-closure period. Inspections can be performed during sampling events, therefore no further costs have been budgeted for this item.

6) Routine leachate collection system Operation and Maintenance costs as follows: Assume lateral collection piping to be cleaned once in the original post-closure period and once in the Rolling 30-year post-closure period, at estimated cost of \$8,272/yr. ATL replaced 1 set of pumps in 2018 @ \$28,000 [2 primary & 1 secondary with est. cost of \$42,000]. Assume one pump to be replaced in 2029 and one pump to be replaced every 5 years @ \$14,000, after that. Assume a skilled worker is needed to maintain system on an 8-hour work week [2 ea 4-hr days, 52 weeks a year] for a cost of \$29,787/yr. Assume the leachate collection lagoons to be cleaned once in the original post-closure period and once in the Rolling 30-year post-closure period, at a cost of \$85,481 each which includes hauling off the collected leachate and sediment removal from the lagoon liner. Estimated costs are based on 2019 quotes from TAM Enterprises and from 2019 RS Means, inflated to 2024\$.

7) Gas Maintenance & Repair assumes an annual upkeep cost of \$10,000 starting in 2022 for GCCS maintenance.

8) As per records from ATL, leachate is hauled off-site at a rate of \$0.114/gallon. Cornerstone evaluated the leachate generation in 2018, and hauling records since. As a result, the leachate removal quantities from the site will assume to be 1.2 million g/yr until 2025, 750,000 g/yr for years 2026 to 2030 and 500,000 g/yr from year 2031 onward.

9) Cost shown represents average annual cost for each of the remaining 9 years of the initial 30 year post closure period.

10) Cost shown represents average annual cost over the 21 yr period.

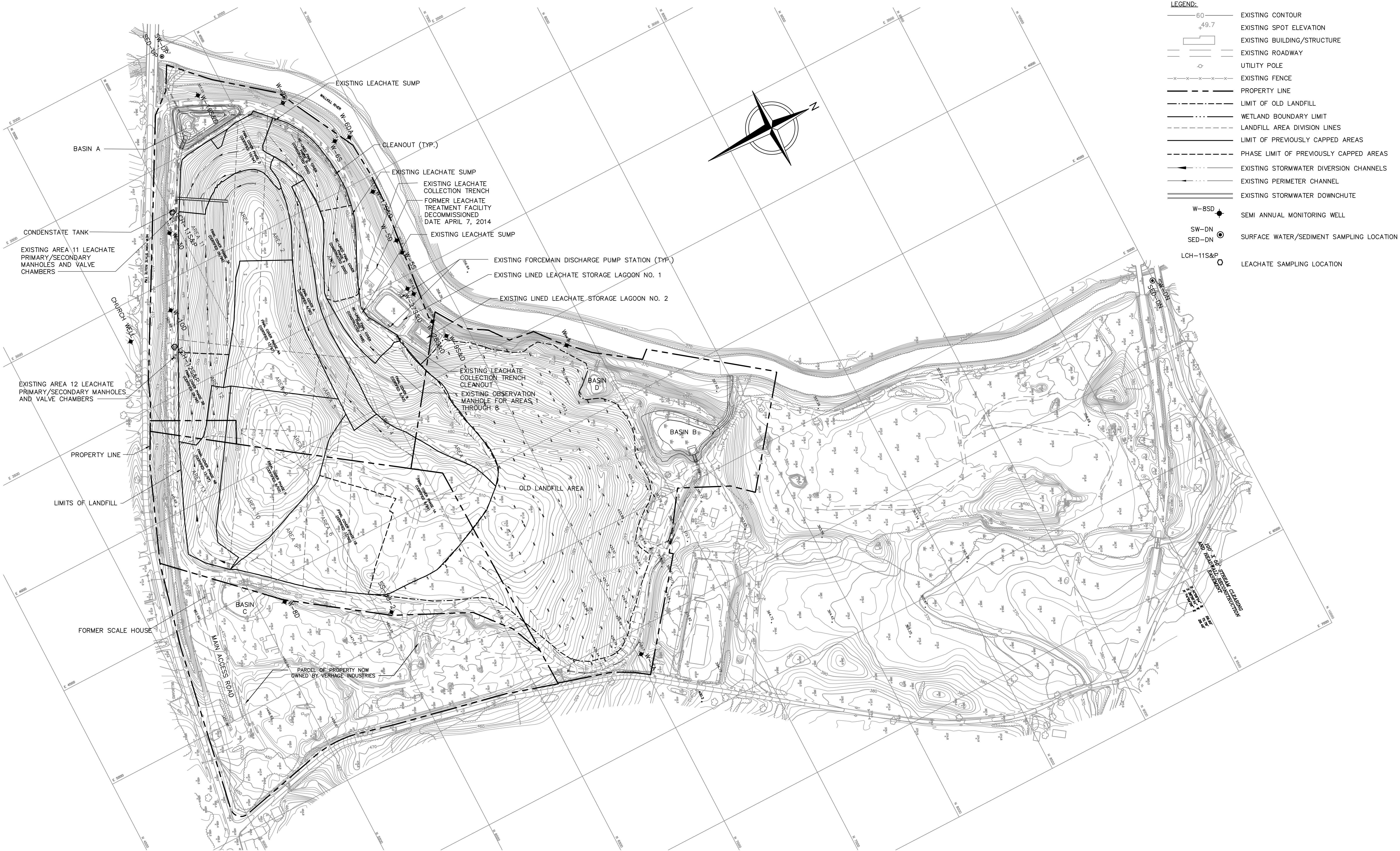
11) Cost shown is for annual post closure reporting (\$12,800) and GHG Report (\$5,900)

12) Costs shown represent the total PC cost for 2025 - 2033.

Inflation Factor to adjust 2019\$ to 2024\$	1.208
Inflation Factor to adjust 2022\$ to 2024\$	1.050
Inflation Factor to adjust 2023\$ to 2024\$	1.024

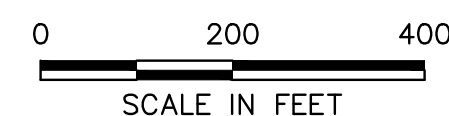
DRAWINGS

- | | |
|----------|---|
| Figure 1 | Site Plan |
| Figure 2 | Landfill Gas Collection Control System (As Built) |



- LEGEND:**
- 60 ——— EXISTING CONTOUR
 - 49.7 ——— EXISTING SPOT ELEVATION
 - [Symbol] EXISTING BUILDING/STRUCTURE
 - — — EXISTING ROADWAY
 - — — — UTILITY POLE
 - x — x — x — x — EXISTING FENCE
 - — — — — PROPERTY LINE
 - · — · — · — · — LIMIT OF OLD LANDFILL
 - · — · — · — · — WETLAND BOUNDARY LIMIT
 - · — · — · — · — LANDFILL AREA DIVISION LINES
 - · — · — · — · — LIMIT OF PREVIOUSLY CAPPED AREAS
 - · — · — · — · — PHASE LIMIT OF PREVIOUSLY CAPPED AREAS
 - — — — — EXISTING STORMWATER DIVERSION CHANNELS
 - — — — — EXISTING PERIMETER CHANNEL
 - — — — — EXISTING STORMWATER DOWNCHUTE
 - W-BSD [Symbol] SEMI ANNUAL MONITORING WELL
 - SW-DN [Symbol] SED-DN [Symbol] SURFACE WATER/SEDIMENT SAMPLING LOCATION
 - LCH-11S&P [Symbol] LEACHATE SAMPLING LOCATION

- NOTES:**
1. TOPOGRAPHIC MAP COMPILED PHOTOGRAMMETRICALLY FROM AERIAL PHOTOGRAPHY DATED DECEMBER 3, 2001 BY ATLANTIS AERIAL SURVEY COMPANY, INC.
 2. PROPERTY LINE SHOWN FROM SURVEY/DEED PLOT PREPARED BY DANIEL P. YANOSH, N.Y.S. L.S. FOR AL TURI LANDFILL, INC. DATED OCTOBER 24, 2016.
 3. THE GRID DEPICTED ON THIS PLAN WAS DEVELOPED FOR MAPPING OF THE PROJECT SITE. THE COORDINATES SHOWN ARE NOT PART OF THE STATE PLANE COORDINATE SYSTEM.



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PLLC

PREPARED BY:
CORNERSTONE ENGINEERING, GEOLOGY AND LAND SURVEYING, PLLC

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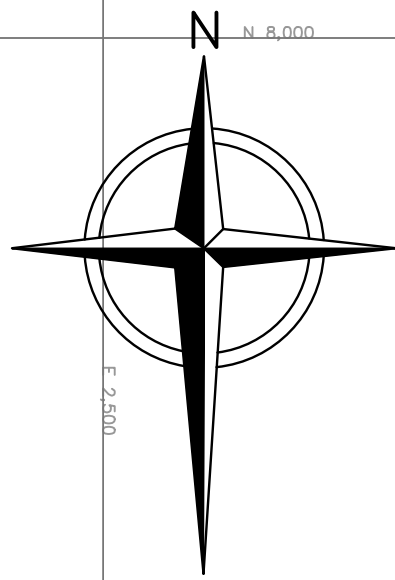
AL TURI LANDFILL, INC.
TOWN OF GOSHEN, ORANGE COUNTY, NEW YORK

2017/2018 ANNUAL REPORT
SITE PLAN

SHEET NO.
1

PROJECT NO.
190123

1" = 1/2" 0" 1" 1/2" 2" 3" 4" 5" 6" 7" 8" 9" 10" 11" 12" 13" 14" 15" 16" 17" 18" 19" 20" 21" 22" 23" 24" 25" 26" 27" 28" 29" 30" 31" 32" 33" 34" 35" 36" 37" 38" 39" 40" 41" 42" 43" 44" 45" 46" 47" 48" 49" 50" 51" 52" 53" 54" 55" 56" 57" 58" 59" 60" 61" 62" 63" 64" 65" 66" 67" 68" 69" 70" 71" 72" 73" 74" 75" 76" 77" 78" 79" 80" 81" 82" 83" 84" 85" 86" 87" 88" 89" 90" 91" 92" 93" 94" 95" 96" 97" 98" 99" 100" 101" 102" 103" 104" 105" 106" 107" 108" 109" 110" 111" 112" 113" 114" 115" 116" 117" 118" 119" 120" 121" 122" 123" 124" 125" 126" 127" 128" 129" 130" 131" 132" 133" 134" 135" 136" 137" 138" 139" 140" 141" 142" 143" 144" 145" 146" 147" 148" 149" 150" 151" 152" 153" 154" 155" 156" 157" 158" 159" 160" 161" 162" 163" 164" 165" 166" 167" 168" 169" 170" 171" 172" 173" 174" 175" 176" 177" 178" 179" 180" 181" 182" 183" 184" 185" 186" 187" 188" 189" 190" 191" 192" 193" 194" 195" 196" 197" 198" 199" 200" 201" 202" 203" 204" 205" 206" 207" 208" 209" 210" 211" 212" 213" 214" 215" 216" 217" 218" 219" 220" 221" 222" 223" 224" 225" 226" 227" 228" 229" 230" 231" 232" 233" 234" 235" 236" 237" 238" 239" 240" 241" 242" 243" 244" 245" 246" 247" 248" 249" 250" 251" 252" 253" 254" 255" 256" 257" 258" 259" 260" 261" 262" 263" 264" 265" 266" 267" 268" 269" 270" 271" 272" 273" 274" 275" 276" 277" 278" 279" 280" 281" 282" 283" 284" 285" 286" 287" 288" 289" 290" 291" 292" 293" 294" 295" 296" 297" 298" 299" 300" 301" 302" 303" 304" 305" 306" 307" 308" 309" 310" 311" 312" 313" 314" 315" 316" 317" 318" 319" 320" 321" 322" 323" 324" 325" 326" 327" 328" 329" 330" 331" 332" 333" 334" 335" 336" 337" 338" 339" 340" 341" 342" 343" 344" 345" 346" 347" 348" 349" 350" 351" 352" 353" 354" 355" 356" 357" 358" 359" 360" 361" 362" 363" 364" 365" 366" 367" 368" 369" 370" 371" 372" 373" 374" 375" 376" 377" 378" 379" 380" 381" 382" 383" 384" 385" 386" 387" 388" 389" 390" 391" 392" 393" 394" 395" 396" 397" 398" 399" 400" 401" 402" 403" 404" 405" 406" 407" 408" 409" 410" 411" 412" 413" 414" 415" 416" 417" 418" 419" 420" 421" 422" 423" 424" 425" 426" 427" 428" 429" 430" 431" 432" 433" 434" 435" 436" 437" 438" 439" 440" 441" 442" 443" 444" 445" 446" 447" 448" 449" 450" 451" 452" 453" 454" 455" 456" 457" 458" 459" 460" 461" 462" 463" 464" 465" 466" 467" 468" 469" 470" 471" 472" 473" 474" 475" 476" 477" 478" 479" 480" 481" 482" 483" 484" 485" 486" 487" 488" 489" 490" 491" 492" 493" 494" 495" 496" 497" 498" 499" 500" 501" 502" 503" 504" 505" 506" 507" 508" 509" 510" 511" 512" 513" 514" 515" 516" 517" 518" 519" 520" 521" 522" 523" 524" 525" 526" 527" 528" 529" 530" 531" 532" 533" 534" 535" 536" 537" 538" 539" 540" 541" 542" 543" 544" 545" 546" 547" 548" 549" 550" 551" 552" 553" 554" 555" 556" 557" 558" 559" 560" 561" 562" 563" 564" 565" 566" 567" 568" 569" 570" 571" 572" 573" 574" 575" 576" 577" 578" 579" 580" 581" 582" 583" 584" 585" 586" 587" 588" 589" 590" 591" 592" 593" 594" 595" 596" 597" 598" 599" 600" 601" 602" 603" 604" 605" 606" 607" 608" 609" 610" 611" 612" 613" 614" 615" 616" 617" 618" 619" 620" 621" 622" 623" 624" 625" 626" 627" 628" 629" 630" 631" 632" 633" 634" 635" 636" 637" 638" 639" 640" 641" 642" 643" 644" 645" 646" 647" 648" 649" 650" 651" 652" 653" 654" 655" 656" 657" 658" 659" 660" 661" 662" 663" 664" 665" 666" 667" 668" 669" 670" 671" 672" 673" 674" 675" 676" 677" 678" 679" 680" 681" 682" 683" 684" 685" 686" 687" 688" 689" 690" 691" 692" 693" 694" 695" 696" 697" 698" 699" 700" 701" 702" 703" 704" 705" 706" 707" 708" 709" 710" 711" 712" 713" 714" 715" 716" 717" 718" 719" 720" 721" 722" 723" 724" 725" 726" 727" 728" 729" 730" 731" 732" 733" 734" 735" 736" 737" 738" 739" 740" 741" 742" 743" 744" 745" 746" 747" 748" 749" 750" 751" 752" 753" 754" 755" 756" 757" 758" 759" 760" 761" 762" 763" 764" 765" 766" 767" 768" 769" 770" 771" 772" 773" 774" 775" 776" 777" 778" 779" 780" 781" 782" 783" 784" 785" 786" 787" 788" 789" 790" 791" 792" 793" 794" 795" 796" 797" 798" 799" 800" 801" 802" 803" 804" 805" 806" 807" 808" 809" 810" 811" 812" 813" 814" 815" 816" 817" 818" 819" 820" 821" 822" 823" 824" 825" 826" 827" 828" 829" 830" 831" 832" 833" 834" 835" 836" 837" 838" 839" 840" 841" 842" 843" 844" 845" 846" 847" 848" 849" 850" 851" 852" 853" 854" 855" 856" 857" 858" 859" 860" 861" 862" 863" 864" 865" 866" 867" 868" 869" 870" 871" 872" 873" 874" 875" 876" 877" 878" 879" 880" 881" 882" 883" 884" 885" 886" 887" 888" 889" 890" 891" 892" 893" 894" 895" 896" 897" 898" 899" 900" 901" 902" 903" 904" 905" 906" 907" 908" 909" 910" 911" 912" 913" 914" 915" 916" 917" 918" 919" 920" 921" 922" 923" 924" 925" 926" 927" 928" 929" 930" 931" 932" 933" 934" 935" 936" 937" 938" 939" 940" 941" 942" 943" 944" 945" 946" 947" 948" 949" 950" 951" 952" 953" 954" 955" 956" 957" 958" 959" 960" 961" 962" 963" 964" 965" 966" 967" 968" 969" 970" 971" 972" 973" 974" 975" 976" 977" 978" 979" 980" 981" 982" 983" 984" 985" 986" 987" 988" 989" 990" 991" 992" 993" 994" 995" 996" 997" 998" 999" 1000



- LEGEND:**
- 60 — EXISTING CONTOUR
 - +49.7 EXISTING SPOT ELEVATION
 - EXISTING BUILDING/STRUCTURE
 - EXISTING ROADWAY
 - UTILITY POLE
 - EXISTING FENCE
 - PROPERTY LINE
 - LIMIT OF OLD LANDFILL
 - LANDFILL AREA DIVISION LINES
 - GAS HEADER PIPE
 - GAS COLLECTION TRENCH
 - GW-52 GAS EXTRACTION WELL (ALSO GT, GV SERIES)
 - CO6 CLEANOUT RISER
 - MH MANHOLE
 - SYSTEM VALVES
 - + FINAL COVER VENT PIPES
 - Δ CONDENSATE DROP OUTS
 - CONNECTION TO ACTIVE SYSTEM
 - GT-HZ-11 GAS COLLECTION WELL AND TRENCH CONNECTION TO ACTIVE SYSTEM
 - ⊗ GM-4 GAS MONITORING PROBES
 - + FINAL COVER VENT PIPES (LOCATIONS WERE NOT SURVEYED AND ARE APPROXIMATE)
 - ◆ GM-44 TEMPORARY GAS MONITORING PROBE

SUMMARY OF HEADERS

NAME	DIAMETER (IN.)	LOCATION
CO LINE	14-INCH	BLOWER BUILDING OUT TO GW23
HARTLEY RD. LINE	14-INCH	BLOWER BUILDING AROUND TO AREA 12 PS
LFG LINE	10-INCH	BLOWER BUILDING UP TO OLD LANDFILL
SECONDARY HEADERS	6-INCH	

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0 150 300
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REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	MAY 2019	DATE OF ISSUE	DRAWN BY	BTG	CHECKED BY	DMC
		DESIGNED BY		APPROVED BY	PAS	

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PLLC

PREPARED BY:
CORNERSTONE ENGINEERING, GEOLOGY AND LAND SURVEYING, PLLC

ALL PROFESSIONAL ENGINEERING WORK IS PERFORMED BY FULLY LICENSED PROFESSIONAL ENGINEERS UNDER THE APPROPRIATE STATE REGISTERED PROFESSIONAL ENTITY.

AL TURI LANDFILL, INC.
TOWN OF GOSHEN, ORANGE COUNTY, NEW YORK

LANDFILL GAS COLLECTION SYSTEM AS-BUILT
(AS OF FEBRUARY 2019)

SHEET NO.
2

PROJECT NO.
190123

APPENDIX A: LANDFILL GAS MIGRATION MONITORING

Al Turi Landfill
First Quarter 2024 Probes

Probe ID	Date/Time	CH4%	CO2%	O2%	Bal%	BP
GMP-1	3/27/2024 10:18	0.0	0.0	21.6	78.4	29.56
GMV-1	3/27/2024 10:20	0.0	0.0	21.5	78.5	29.56
GMP-2	3/27/2024 10:24	0.0	0.8	20.9	78.3	29.56
GMV-2	3/27/2024 10:28	0.0	0.1	21.3	78.6	29.56
GMP-3	3/27/2024 10:31	0.0	0.5	20.8	78.7	29.56
GMV-3	3/27/2024 10:32	0.0	0.3	21.0	78.7	29.56
GMP-4	3/27/2024 10:34	0.0	0.0	21.6	78.4	29.56
GMV-4	3/27/2024 10:40	0.0	0.6	21.1	78.3	29.56
GMP-5	3/27/2024 10:42	0.0	0.7	19.7	78.6	29.56
GMV-5	3/27/2024 10:45	0.0	0.2	21.5	78.3	29.56
GMP-6	3/27/2024 10:47	0.0	0.2	21.4	78.4	29.56
GMV-6	3/27/2024 10:49	0.0	0.2	21.6	78.2	29.56
GMP-7	3/27/2024 10:50	0.0	0.0	21.7	78.3	29.56
GMV-7	3/27/2024 10:52	0.0	0.5	21.2	78.3	29.56
GMP-8	3/27/2024 10:54	0.0	0.2	21.6	78.2	29.56
GMV-8	3/27/2024 11:02	0.0	0.1	21.7	78.2	29.56
GMP-9	3/27/2024 11:04	0.0	0.1	21.8	78.1	29.56
GMV-9	3/27/2024 11:06	0.0	0.1	21.9	78.0	29.56
GMP-10	3/27/2024 11:09	0.0	0.0	21.9	78.1	29.56
GMV-10	3/27/2024 11:14	0.0	0.5	21.3	78.2	29.56
GM1A	3/27/2024 10:11	0.0	0.0	21.7	78.3	29.56
GM2A	3/27/2024 10:07	0.0	0.0	21.7	78.3	29.56
GM3A	3/27/2024 10:03	0.0	0.0	21.6	78.4	29.56
GM4A	3/27/2024 10:01	0.0	0.0	21.7	78.3	29.56
GM5A	3/27/2024 9:57	0.0	0.2	21.5	78.3	29.56
GM6A	3/27/2024 9:49	0.0	0.2	21.5	78.3	29.56
GM7	3/27/2024 9:43	0.0	0.3	21.6	78.1	29.56
GM9	3/27/2024 11:17	0.0	0.2	21.4	78.4	29.56
GM10	3/27/2024 9:41	0.0	0.0	21.8	78.2	29.56
GM11	3/27/2024 9:32	0.0	0.0	21.7	78.3	29.56
GM12	3/27/2024 9:22	0.0	0.0	21.5	78.5	29.56
GM13	3/27/2024 9:19	0.0	0.2	21.3	78.5	29.56
GM14	3/27/2024 9:17	0.0	0.5	20.6	78.9	29.56
GM15	3/27/2024 9:11	0.0	0.2	21.3	78.5	29.56

Al Turi Landfill
Second Quarter 2024 Probes

[illegible]

Al Turi Landfill
Third Quarter 2024 Probes

Probe ID	Date/Time	CH4%	CO2%	O2%	Bal%	BP
GMP-1	10/2/2024 10:28	0.0	0.3	20.6	79.1	29.53
GMV-1	10/2/2024 10:31	0.0	0.1	20.9	79.0	29.53
GMP-2	10/2/2024 10:33	0.0	0.6	19.9	79.4	29.53
GMV-2	10/2/2024 10:36	0.0	0.1	20.9	78.8	29.53
GMP-3	10/2/2024 10:37	0.0	1.1	19.7	79.2	29.53
GMV-3	10/2/2024 10:39	0.0	0.9	19.7	79.3	29.53
GMP-4	10/2/2024 10:41	0.0	1.0	19.7	79.3	29.53
GMV-4	10/2/2024 10:43	0.0	2.0	18.2	79.8	29.53
GMP-5	10/2/2024 10:45	0.0	6.3	13.3	80.4	29.53
GMV-5	10/2/2024 10:47	0.0	3.3	18.3	78.7	29.53
GMP-6	10/2/2024 10:50	0.0	0.8	20.2	79.0	29.53
GMV-6	10/2/2024 10:52	0.0	1.9	19.1	79.0	29.53
GMP-7	10/2/2024 10:54	0.0	2.2	17.5	80.3	29.53
GMV-7	10/2/2024 10:56	0.0	5.9	14.2	80.7	29.53
GMP-8	10/2/2024 10:59	0.0	6.9	10.8	82.5	29.53
GMV-8	10/2/2024 11:01	0.0	0.9	19.1	80.0	29.53
GMP-9	10/2/2024 11:02	0.0	0.9	19.2	79.9	29.53
GMV-9	10/2/2024 11:04	0.0	2.5	18.6	78.9	29.53
GMP-10	10/2/2024 11:06	0.0	0.9	19.8	79.3	29.53
GMV-10	10/2/2024 11:09	0.0	1.2	19.6	79.2	29.53
GM1A	10/2/2024 11:13	0.0	0.4	20.6	79.0	29.53
GM2A	10/2/2024 11:15	0.0	0.7	20.2	79.1	29.53
GM3A	10/2/2024 11:17	0.0	0.0	20.8	79.2	29.53
GM4A	10/2/2024 11:19	0.0	0.8	20.0	79.2	29.53
GM5A	10/2/2024 11:21	0.0	0.1	20.6	79.3	29.53
GM6A	10/2/2024 11:32	0.0	0.5	20.2	79.3	29.53
GM7	10/2/2024 11:35	0.0	0.6	20.0	79.4	29.53
GM9	10/2/2024 11:36	0.0	0.6	19.7	79.7	29.53
GM10	10/2/2024 11:38	0.0	0.5	20.2	79.3	29.53
GM11	10/2/2024 11:58	0.0	0.4	20.3	79.3	29.53
GM12	10/2/2024 12:14	0.0	0.2	20.6	79.2	29.53
GM13	10/2/2024 12:00	0.0	0.3	20.5	79.2	29.53
GM14	10/2/2024 12:02	0.0	0.9	19.8	79.3	29.53
GM15	10/2/2024 12:04	0.0	0.3	20.5	79.2	29.53

Al Turi Landfill
Fourth Quarter 2024 Probes

Probe ID	Date/Time	CH4%	CO2%	O2%	Bal%	BP
GMP-1	12/31/2024 10:36 AM	0.0	0.1	19.0	79.1	29.42
GMV-1	12/31/2024 10:38 AM	0.0	0.0	21.0	79.0	29.42
GMP-2	12/31/2024 10:40 AM	0.0	0.9	21.2	79.2	29.42
GMV-2	12/31/2024 10:42 AM	0.0	0.1	21.0	78.9	29.42
GMP-3	12/31/2024 10:43 AM	0.0	2.0	19.0	79.2	29.42
GMV-3	12/31/2024 10:45 AM	0.0	0.1	21.0	79.0	29.46
GMP-4	12/31/2024 10:47 AM	0.0	0.0	21.2	77.6	29.46
GMV-4	12/31/2024 10:49 AM	0.0	1.2	20.3	77.6	29.46
GMP-5	12/31/2024 10:51 AM	0.0	0.3	20.3	77.9	29.46
GMV-5	12/31/2024 10:53 AM	0.0	0.1	21.3	77.4	29.46
GMP-6	12/31/2024 10:55 AM	0.0	0.0	21.4	77.5	29.46
GMV-6	12/31/2024 10:56 AM	0.0	0.0	21.5	77.4	29.46
GMP-7	12/31/2024 10:58 AM	0.0	0.0	21.4	77.5	29.46
GMV-7	12/31/2024 10:59 AM	0.0	0.2	21.1	77.7	29.46
GMP-8	12/31/2024 11:00 AM	0.0	0.1	21.4	77.5	29.46
GMV-8	12/31/2024 11:01 AM	0.0	0.1	21.4	77.5	29.46
GMP-9	12/31/2024 11:03 AM	0.0	0.0	21.5	77.6	29.46
GMV-9	12/31/2024 11:04 AM	0.0	0.1	21.3	79.1	29.46
GMP-10	12/31/2024 11:06 AM	0.0	0.1	21.4	79.2	29.46
GMV-10	12/31/2024 11:08 AM	0.0	0.0	21.4	79.5	29.46
GM1A	12/31/2024 10:29 AM	0.0	0.0	20.9	78.9	29.42
GM2A	12/31/2024 10:27 AM	0.0	0.0	20.7	78.8	29.42
GM3A	12/31/2024 10:25 AM	0.0	0.0	20.6	78.8	29.42
GM4A	12/31/2024 10:22 AM	0.0	0.1	20.5	78.7	29.42
GM5A	12/31/2024 10:19 AM	0.0	0.0	20.5	78.7	29.42
GM6A	12/31/2024 10:16 AM	0.0	0.1	20.2	79.0	29.42
GM7	12/31/2024 11:32 AM	0.0	0.2	20.5	78.6	29.46
GM9	12/31/2024 11:30 AM	0.0	0.1	20.7	78.5	29.46
GM10	12/31/2024 11:28 AM	0.0	0.1	20.8	78.4	29.46
GM11	12/31/2024 11:26 AM	0.0	0.2	20.8	78.5	29.46
GM12	12/31/2024 11:24 AM	0.0	0.5	20.3	78.6	29.46
GM13	12/31/2024 11:21 AM	0.0	0.1	21.1	78.0	29.46
GM14	12/31/2024 11:19 AM	0.0	0.2	21.1	78.6	29.46
GM15	12/31/2024 11:17 AM	0.0	0.2	21.2	78.7	29.46

APPENDIX B: 2024 WATER QUALITY ANALYTICAL DATA



December 05, 2024

TJ Milo
Al Turi Landfill
73 Hartley Road
Goshen, NY 10924

RE: Project: OPERATIONAL WELLS 11/12
Pace Project No.: 70321807

Dear TJ Milo:

Enclosed are the analytical results for sample(s) received by the laboratory on November 13, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kimberley M. Mack
kimberley.mack@pacelabs.com
516-370-6052
Project Manager

Enclosures

cc: Marc Colantuono
Diane Conroy, Tetra Tech



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

Pace Analytical Services, LLC - Melville, NY

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Texas Certification #: T104704582

Florida Certification #: E871198

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

Sample: MW-1		Lab ID: 70321807001		Collected: 11/12/24 11:05		Received: 11/13/24 08:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method: Pace Analytical Services - Melville							
Field pH	6.58	Std. Units			1		11/12/24 11:05		
Field Temperature	11.3	deg C			1		11/12/24 11:05		
Field Specific Conductance	1453	umhos/cm			1		11/12/24 11:05		
Eh	-84	mV			1		11/12/24 11:05		
Field Turbidity	51.7	NTU			1		11/12/24 11:05		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	477000	ug/L		830	1		11/14/24 14:39		
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Arsenic	<10.0	ug/L		10.0	1	11/14/24 07:09	11/14/24 14:39	7440-38-2	
Cadmium	<2.5	ug/L		2.5	1	11/14/24 07:09	11/14/24 14:39	7440-43-9	
Calcium	128000	ug/L		200	1	11/14/24 07:09	11/14/24 14:39	7440-70-2	
Iron	32900	ug/L		100	1	11/14/24 07:09	11/14/24 14:39	7439-89-6	
Lead	<5.0	ug/L		5.0	1	11/14/24 07:09	11/14/24 14:39	7439-92-1	
Magnesium	38200	ug/L		200	1	11/14/24 07:09	11/14/24 14:39	7439-95-4	
Manganese	1520	ug/L		10.0	1	11/14/24 07:09	11/14/24 14:39	7439-96-5	
Potassium	23900	ug/L		5000	1	11/14/24 07:09	11/14/24 14:39	7440-09-7	
Sodium	88600	ug/L		5000	1	11/14/24 07:09	11/14/24 14:39	7440-23-5	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Melville							
Mercury	<0.20	ug/L		0.20	1	11/19/24 07:22	11/19/24 15:33	7439-97-6	
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville							
Turbidity	13.0	NTU		1.0	1		11/13/24 21:10		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	427	mg/L		1.0	1		11/25/24 13:57		
2510B Specific Conductance		Analytical Method: SM22 2510B Pace Analytical Services - Melville							
Specific Conductance	1540	umhos/cm		1.0	1		11/18/24 13:32		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	824	mg/L		50.0	1		11/18/24 13:58		
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	55.0	mg/L		10.0	1	11/18/24 03:10	11/18/24 05:32		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

Sample: MW-1		Lab ID: 70321807001		Collected: 11/12/24 11:05		Received: 11/13/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	5.6	mg/L	4.0	2	11/13/24 15:30	11/18/24 10:02			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	80.3	mg/L	2.0	1		11/25/24 05:53	16887-00-6		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	23.1	mg/L	1.0	10	11/14/24 03:39	11/14/24 12:22	7727-37-9		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	1.6	mg/L	0.050	1		11/18/24 15:49	7727-37-9		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	22.0	mg/L	0.50	5		11/18/24 12:55	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	12.8	mg/L	1.0	1		11/18/24 18:16	7440-44-0		
Total Organic Carbon	12.7	mg/L	1.0	1		11/18/24 18:16	7440-44-0		
Total Organic Carbon	12.7	mg/L	1.0	1		11/18/24 18:16	7440-44-0		
Total Organic Carbon	12.6	mg/L	1.0	1		11/18/24 18:16	7440-44-0		
Mean Total Organic Carbon	12.7	mg/L	1.0	1		11/18/24 18:16	7440-44-0		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

Sample: MW-8D		Lab ID: 70321807002		Collected: 11/12/24 11:25		Received: 11/13/24 08:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method: Pace Analytical Services - Melville							
Field pH	7.02	Std. Units			1		11/12/24 11:25		
Field Temperature	11.4	deg C			1		11/12/24 11:25		
Field Specific Conductance	560.2	umhos/cm			1		11/12/24 11:25		
Eh	68	mV			1		11/12/24 11:25		
Field Turbidity	2.77	NTU			1		11/12/24 11:25		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	298000	ug/L		830	1		11/14/24 13:54		
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Arsenic	<10.0	ug/L		10.0	1	11/14/24 07:09	11/14/24 13:54	7440-38-2	
Cadmium	<2.5	ug/L		2.5	1	11/14/24 07:09	11/14/24 13:54	7440-43-9	
Calcium	90300	ug/L		200	1	11/14/24 07:09	11/14/24 13:54	7440-70-2	
Iron	<100	ug/L		100	1	11/14/24 07:09	11/14/24 13:54	7439-89-6	
Lead	<5.0	ug/L		5.0	1	11/14/24 07:09	11/14/24 13:54	7439-92-1	
Magnesium	17500	ug/L		200	1	11/14/24 07:09	11/14/24 13:54	7439-95-4	
Manganese	221	ug/L		10.0	1	11/14/24 07:09	11/14/24 13:54	7439-96-5	
Potassium	<5000	ug/L		5000	1	11/14/24 07:09	11/14/24 13:54	7440-09-7	
Sodium	9880	ug/L		5000	1	11/14/24 07:09	11/14/24 13:54	7440-23-5	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Melville							
Mercury	<0.20	ug/L		0.20	1	11/19/24 07:22	11/19/24 15:35	7439-97-6	
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville							
Turbidity	60.0	NTU		5.0	5		11/13/24 21:14		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	248	mg/L		1.0	1		11/25/24 14:10		
2510B Specific Conductance		Analytical Method: SM22 2510B Pace Analytical Services - Melville							
Specific Conductance	587	umhos/cm		1.0	1		11/18/24 13:34		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	333	mg/L		25.0	1		11/18/24 13:58		
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	59.3	mg/L		10.0	1	11/18/24 03:10	11/18/24 05:32		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

Sample: MW-8D		Lab ID: 70321807002		Collected: 11/12/24 11:25		Received: 11/13/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<2.0	mg/L	2.0	1	11/13/24 15:34	11/18/24 10:04			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<0.50	mg/L	0.50	1		11/25/24 06:11	24959-67-9		
Chloride	20.1	mg/L	2.0	1		11/25/24 06:11	16887-00-6		
Sulfate	39.2	mg/L	5.0	1		11/25/24 06:11	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	1.2	mg/L	0.50	1	11/14/24 03:39	11/14/24 12:16	7727-37-9		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	0.053	mg/L	0.050	1		11/18/24 15:22	7727-37-9		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		11/18/24 12:56	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	1.1	mg/L	1.0	1		11/18/24 18:26	7440-44-0		
Total Organic Carbon	1.1	mg/L	1.0	1		11/18/24 18:26	7440-44-0		
Total Organic Carbon	1.9	mg/L	1.0	1		11/18/24 18:26	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		11/18/24 18:26	7440-44-0		
Mean Total Organic Carbon	1.3	mg/L	1.0	1		11/18/24 18:26	7440-44-0		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

Sample: MW-10D		Lab ID: 70321807003		Collected: 11/12/24 11:15		Received: 11/13/24 08:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method: Pace Analytical Services - Melville							
Field pH	6.90	Std. Units			1		11/12/24 11:15		
Field Temperature	9.5	deg C			1		11/12/24 11:15		
Field Specific Conductance	1131	umhos/cm			1		11/12/24 11:15		
Eh	-10	mV			1		11/12/24 11:15		
Field Turbidity	3.46	NTU			1		11/12/24 11:15		
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	604000	ug/L		830	1		11/14/24 16:06		
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Arsenic	11.0	ug/L		10.0	1	11/14/24 10:10	11/14/24 16:06	7440-38-2	
Cadmium	<2.5	ug/L		2.5	1	11/14/24 10:10	11/14/24 16:06	7440-43-9	
Calcium	170000	ug/L		200	1	11/14/24 10:10	11/14/24 16:06	7440-70-2	
Iron	1390	ug/L		100	1	11/14/24 10:10	11/14/24 16:06	7439-89-6	
Lead	<5.0	ug/L		5.0	1	11/14/24 10:10	11/14/24 16:06	7439-92-1	
Magnesium	43700	ug/L		200	1	11/14/24 10:10	11/14/24 16:06	7439-95-4	
Manganese	916	ug/L		10.0	1	11/14/24 10:10	11/14/24 16:06	7439-96-5	
Potassium	<5000	ug/L		5000	1	11/14/24 10:10	11/14/24 16:06	7440-09-7	
Sodium	26700	ug/L		5000	1	11/14/24 10:10	11/14/24 16:06	7440-23-5	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Melville							
Mercury	<0.20	ug/L		0.20	1	11/19/24 07:22	11/19/24 15:36	7439-97-6	
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville							
Turbidity	150	NTU		10.0	10		11/13/24 21:17		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	488	mg/L		1.0	1		11/25/24 14:31		
2510B Specific Conductance		Analytical Method: SM22 2510B Pace Analytical Services - Melville							
Specific Conductance	1160	umhos/cm		1.0	1		11/18/24 13:35		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	678	mg/L		50.0	1		11/18/24 13:59		
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxyqgen Demand	14.2	mg/L		10.0	1	11/18/24 03:10	11/18/24 05:32		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

Sample: MW-10D		Lab ID: 70321807003		Collected: 11/12/24 11:15		Received: 11/13/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<2.0	mg/L	2.0	1	11/13/24 15:38	11/18/24 10:06			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<0.50	mg/L	0.50	1		11/25/24 07:03	24959-67-9		
Chloride	42.0	mg/L	2.0	1		11/25/24 07:03	16887-00-6		
Sulfate	97.7	mg/L	5.0	1		11/25/24 07:03	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	0.49	mg/L	0.10	1	11/14/24 03:39	11/14/24 12:17	7727-37-9		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	<0.050	mg/L	0.050	1		11/18/24 15:24	7727-37-9		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	0.34	mg/L	0.10	1		11/18/24 12:57	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	1.1	mg/L	1.0	1		11/18/24 18:37	7440-44-0		
Total Organic Carbon	1.1	mg/L	1.0	1		11/18/24 18:37	7440-44-0		
Total Organic Carbon	1.1	mg/L	1.0	1		11/18/24 18:37	7440-44-0		
Total Organic Carbon	1.1	mg/L	1.0	1		11/18/24 18:37	7440-44-0		
Mean Total Organic Carbon	1.1	mg/L	1.0	1		11/18/24 18:37	7440-44-0		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

QC Batch: 371488

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321807001, 70321807002, 70321807003

METHOD BLANK: 1943291

Matrix: Water

Associated Lab Samples: 70321807001, 70321807002, 70321807003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	11/19/24 15:18	

LABORATORY CONTROL SAMPLE: 1943292

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	0.98	98	80-120	

MATRIX SPIKE SAMPLE: 1943293

Parameter	Units	70322186002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	1.2	106	75-125	

SAMPLE DUPLICATE: 1943294

Parameter	Units	70322186002 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

QC Batch: 370750

Analysis Method: EPA 6010D

QC Batch Method: EPA 3005A

Analysis Description: 6010D MET Water

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321807001, 70321807002

METHOD BLANK: 1938683

Matrix: Water

Associated Lab Samples: 70321807001, 70321807002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<10.0	10.0	11/14/24 13:50	
Cadmium	ug/L	<2.5	2.5	11/14/24 13:50	
Calcium	ug/L	<200	200	11/14/24 13:50	
Iron	ug/L	<100	100	11/14/24 13:50	
Lead	ug/L	<5.0	5.0	11/14/24 13:50	
Magnesium	ug/L	<200	200	11/14/24 13:50	
Manganese	ug/L	<10.0	10.0	11/14/24 13:50	
Potassium	ug/L	<5000	5000	11/14/24 13:50	
Sodium	ug/L	<5000	5000	11/14/24 13:50	

LABORATORY CONTROL SAMPLE: 1938684

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	496	99	80-120	
Cadmium	ug/L	500	479	96	80-120	
Calcium	ug/L	25000	24300	97	80-120	
Iron	ug/L	12500	12300	98	80-120	
Lead	ug/L	500	479	96	80-120	
Magnesium	ug/L	25000	24100	96	80-120	
Manganese	ug/L	500	481	96	80-120	
Potassium	ug/L	25000	24800	99	80-120	
Sodium	ug/L	25000	24700	99	80-120	

MATRIX SPIKE SAMPLE: 1938686

Parameter	Units	70320854008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	<10.0	500	529	106	75-125	
Cadmium	ug/L	<2.5	500	504	101	75-125	
Calcium	ug/L	56900	12500	70300	107	75-125	
Iron	ug/L	1100	5000	6120	100	75-125	
Lead	ug/L	<5.0	500	503	101	75-125	
Magnesium	ug/L	35400	12500	48400	104	75-125	
Manganese	ug/L	15.8	500	520	101	75-125	
Potassium	ug/L	3120J	12500	16400	106	75-125	
Sodium	ug/L	65100	12500	79000	111	75-125	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

SAMPLE DUPLICATE: 1938685

Parameter	Units	70320854008 Result	Dup Result	RPD	Qualifiers
Arsenic	ug/L	<10.0	<10.0		
Cadmium	ug/L	<2.5	<2.5		
Calcium	ug/L	56900	58400	3	
Iron	ug/L	1100	1130	3	
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	35400	36500	3	
Manganese	ug/L	15.8	16.0	1	
Potassium	ug/L	3120J	<5000		
Sodium	ug/L	65100	67100	3	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

QC Batch: 370780

Analysis Method: EPA 6010D

QC Batch Method: EPA 3005A

Analysis Description: 6010D MET Water

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321807003

METHOD BLANK: 1938783

Matrix: Water

Associated Lab Samples: 70321807003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<10.0	10.0	11/14/24 15:44	
Cadmium	ug/L	<2.5	2.5	11/14/24 15:44	
Calcium	ug/L	<200	200	11/14/24 15:44	
Iron	ug/L	<100	100	11/14/24 15:44	
Lead	ug/L	<5.0	5.0	11/14/24 15:44	
Magnesium	ug/L	<200	200	11/14/24 15:44	
Manganese	ug/L	<10.0	10.0	11/14/24 15:44	
Potassium	ug/L	<5000	5000	11/14/24 15:44	
Sodium	ug/L	<5000	5000	11/14/24 15:44	

LABORATORY CONTROL SAMPLE: 1938784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	493	99	80-120	
Cadmium	ug/L	500	477	95	80-120	
Calcium	ug/L	25000	24300	97	80-120	
Iron	ug/L	12500	12200	98	80-120	
Lead	ug/L	500	476	95	80-120	
Magnesium	ug/L	25000	24100	96	80-120	
Manganese	ug/L	500	478	96	80-120	
Potassium	ug/L	25000	24700	99	80-120	
Sodium	ug/L	25000	24700	99	80-120	

MATRIX SPIKE SAMPLE: 1938786

Parameter	Units	70321373007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L		500	518	104	75-125	
Cadmium	ug/L	0.58J	500	501	100	75-125	
Calcium	ug/L		12500	34400	98	75-125	
Iron	ug/L		5000	5300	99	75-125	
Lead	ug/L		500	498	99	75-125	
Magnesium	ug/L		12500	15600	94	75-125	
Manganese	ug/L		500	544	99	75-125	
Potassium	ug/L		12500	16100	102	75-125	
Sodium	ug/L		12500	89700	98	75-125	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

SAMPLE DUPLICATE: 1938785

Parameter	Units	70321373007 Result	Dup Result	RPD	Qualifiers
Arsenic	ug/L		<10.0		
Cadmium	ug/L	0.58J	<2.5		
Calcium	ug/L		22200	0	
Iron	ug/L		356	2	
Lead	ug/L		<5.0		
Magnesium	ug/L		3810	0	
Manganese	ug/L		47.8	1	
Potassium	ug/L		<5000		
Sodium	ug/L		77300	0	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

QC Batch: 370722

Analysis Method: EPA 180.1

QC Batch Method: EPA 180.1

Analysis Description: 180.1 Turbidity

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321807001, 70321807002, 70321807003

METHOD BLANK: 1938607

Matrix: Water

Associated Lab Samples: 70321807001, 70321807002, 70321807003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Turbidity	NTU	<1.0	1.0	11/13/24 20:46	

LABORATORY CONTROL SAMPLE: 1938608

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	10	9.3	93	90-110	

SAMPLE DUPLICATE: 1938609

Parameter	Units	70321915001 Result	Dup Result	RPD	Qualifiers
Turbidity	NTU	2.1	2.0	5	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

QC Batch: 372579

Analysis Method: SM22 2320B

QC Batch Method: SM22 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321807001, 70321807002, 70321807003

METHOD BLANK: 1949730

Matrix: Water

Associated Lab Samples: 70321807001, 70321807002, 70321807003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	<1.0	1.0	11/25/24 12:50	

LABORATORY CONTROL SAMPLE: 1949731

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	25	25.2	101	85-115	

MATRIX SPIKE SAMPLE: 1949733

Parameter	Units	70320854012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	239	50	289	100	75-125	

SAMPLE DUPLICATE: 1949732

Parameter	Units	70320854012 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	239	235	2	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

QC Batch: 371289

Analysis Method: SM22 2510B

QC Batch Method: SM22 2510B

Analysis Description: 2510B Specific Conductance

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321807001, 70321807002, 70321807003

METHOD BLANK: 1942239

Matrix: Water

Associated Lab Samples: 70321807001, 70321807002, 70321807003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	<1.0	1.0	11/18/24 13:29	

LABORATORY CONTROL SAMPLE: 1942240

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	718	652	91	85-115	

SAMPLE DUPLICATE: 1942241

Parameter	Units	70322186002 Result	Dup Result	RPD	Qualifiers
Specific Conductance	umhos/cm	275	283	3	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

QC Batch: 371337 Analysis Method: SM22 2540C
QC Batch Method: SM22 2540C Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70321807001, 70321807002, 70321807003

METHOD BLANK: 1942405 Matrix: Water

Associated Lab Samples: 70321807001, 70321807002, 70321807003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	11/18/24 13:47	

LABORATORY CONTROL SAMPLE: 1942406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	514	103	85-115	

MATRIX SPIKE SAMPLE: 1942408

Parameter	Units	70321807002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	333	300	645	104	75-125	

MATRIX SPIKE SAMPLE: 1942410

Parameter	Units	70321980002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	69.0	300	369	100	75-125	

SAMPLE DUPLICATE: 1942407

Parameter	Units	70321807002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	333	338	1	

SAMPLE DUPLICATE: 1942409

Parameter	Units	70321980002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	69.0	68.0	1	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

QC Batch: 371235

Analysis Method: EPA 410.4

QC Batch Method: EPA 410.4

Analysis Description: 410.4 COD

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321807001, 70321807002, 70321807003

METHOD BLANK: 1942034

Matrix: Water

Associated Lab Samples: 70321807001, 70321807002, 70321807003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<10.0	10.0	11/18/24 05:28	

LABORATORY CONTROL SAMPLE: 1942035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	508	102	90-110	

MATRIX SPIKE SAMPLE: 1942036

Parameter	Units	70322141001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	35.7	1000	1030	99	90-110	

MATRIX SPIKE SAMPLE: 1942038

Parameter	Units	70321807001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	55.0	1000	1030	97	90-110	

SAMPLE DUPLICATE: 1942037

Parameter	Units	70322141001 Result	Dup Result	RPD	Qualifiers
Chemical Oxygen Demand	mg/L	35.7	31.4	13	

SAMPLE DUPLICATE: 1942039

Parameter	Units	70321807001 Result	Dup Result	RPD	Qualifiers
Chemical Oxygen Demand	mg/L	55.0	48.6	12	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

QC Batch: 370635

Analysis Method: SM22 5210B

QC Batch Method: SM22 5210B

Analysis Description: 5210B BOD, 5 day

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321807001, 70321807002, 70321807003

METHOD BLANK: 1938097

Matrix: Water

Associated Lab Samples: 70321807001, 70321807002, 70321807003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	<1.0	1.0	11/18/24 08:58	

LABORATORY CONTROL SAMPLE: 1938098

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	169	85	84.5-115.4	

SAMPLE DUPLICATE: 1938099

Parameter	Units	70321780001 Result	Dup Result	RPD	Qualifiers
BOD, 5 day	mg/L	158	159	1	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

QC Batch:	372447	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70321807001, 70321807002

METHOD BLANK: 1949114 Matrix: Water

Associated Lab Samples: 70321807001, 70321807002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	<0.50	0.50	11/24/24 21:08	
Chloride	mg/L	<2.0	2.0	11/24/24 21:08	
Sulfate	mg/L	<5.0	5.0	11/24/24 21:08	

LABORATORY CONTROL SAMPLE: 1949115

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	1	1.1	108	90-110	
Chloride	mg/L	10	10.4	104	90-110	
Sulfate	mg/L	10	10.4	104	90-110	

MATRIX SPIKE SAMPLE: 1949116

Parameter	Units	70321980002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	<0.50	1	1.1	105	90-110	
Chloride	mg/L	15.9	10	26.1	102	90-110	
Sulfate	mg/L	13.2	10	23.5	103	90-110	

MATRIX SPIKE SAMPLE: 1949118

Parameter	Units	70322569002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	<0.50	1	1.1	107	90-110	
Chloride	mg/L	15.7	10	26.0	103	90-110	
Sulfate	mg/L	14.0	10	24.0	99	90-110	

SAMPLE DUPLICATE: 1949117

Parameter	Units	70321980002 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	<0.50	<0.50		
Chloride	mg/L	15.9	16.0	0	
Sulfate	mg/L	13.2	13.2	0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/12
Pace Project No.: 70321807

SAMPLE DUPLICATE: 1949119

Parameter	Units	70322569002 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	<0.50	<0.50		
Chloride	mg/L	15.7	15.7	0	
Sulfate	mg/L	14.0	13.6	4	

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REPORT OF LABORATORY ANALYSIS



QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

QC Batch:	372450	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70321807003

METHOD BLANK: 1949129 Matrix: Water

Associated Lab Samples: 70321807003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	<0.50	0.50	11/25/24 06:28	
Chloride	mg/L	<2.0	2.0	11/25/24 06:28	
Sulfate	mg/L	<5.0	5.0	11/25/24 06:28	

LABORATORY CONTROL SAMPLE: 1949130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	1	1.1	108	90-110	
Chloride	mg/L	10	10.4	104	90-110	
Sulfate	mg/L	10	10.4	104	90-110	

MATRIX SPIKE SAMPLE: 1949131

Parameter	Units	70320854008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	0.26J	1	1.2	95	90-110	
Chloride	mg/L	146	20	156	48	90-110	
Sulfate	mg/L	26.0	10	36.0	100	90-110	

SAMPLE DUPLICATE: 1949132

Parameter	Units	70320854008 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	0.26J	<0.50		
Chloride	mg/L	146	146	0	
Sulfate	mg/L	26.0	26.0	0	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

QC Batch: 370736

Analysis Method: EPA 351.2

QC Batch Method: EPA 351.2

Analysis Description: 351.2 TKN

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321807001, 70321807002, 70321807003

METHOD BLANK: 1938647

Matrix: Water

Associated Lab Samples: 70321807001, 70321807002, 70321807003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.094	0.094	11/14/24 11:52	

LABORATORY CONTROL SAMPLE: 1938648

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	4.2	106	90-110	

MATRIX SPIKE SAMPLE: 1938649

Parameter	Units	70321800002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.7	4	5.1	86	90-110	M1

MATRIX SPIKE SAMPLE: 1938651

Parameter	Units	70320854012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	2.2	4	5.4	80	90-110	M1

SAMPLE DUPLICATE: 1938650

Parameter	Units	70321800002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.7	1.8	6	

SAMPLE DUPLICATE: 1938652

Parameter	Units	70320854012 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	2.2	2.2	0	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

QC Batch:	371379	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, preserved
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70321807001, 70321807002, 70321807003

METHOD BLANK: 1942575 Matrix: Water

Associated Lab Samples: 70321807001, 70321807002, 70321807003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.037	0.037	11/18/24 14:35	

LABORATORY CONTROL SAMPLE: 1942576

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	0.97	97	90-110	

MATRIX SPIKE SAMPLE: 1942577

Parameter	Units	70322572001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	2.1	0.5	2.5	89	90-110	M1

MATRIX SPIKE SAMPLE: 1942579

Parameter	Units	70321581001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	13.8	5	18.4	92	90-110	

SAMPLE DUPLICATE: 1942578

Parameter	Units	70322572001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	2.1	2.0	2	

SAMPLE DUPLICATE: 1942580

Parameter	Units	70321581001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	13.8	14.8	7	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

QC Batch: 371294

Analysis Method: SM22 4500 NH3 H

QC Batch Method: SM22 4500 NH3 H

Analysis Description: 4500 Ammonia

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321807001, 70321807002, 70321807003

METHOD BLANK: 1942263

Matrix: Water

Associated Lab Samples: 70321807001, 70321807002, 70321807003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.050	0.050	11/18/24 12:38	

LABORATORY CONTROL SAMPLE: 1942264

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.92	92	90-110	

MATRIX SPIKE SAMPLE: 1942265

Parameter	Units	70321137001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	17.4	10	27.0	96	75-125	

SAMPLE DUPLICATE: 1942266

Parameter	Units	70321137001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	17.4	17.2	1	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

QC Batch: 371268

Analysis Method: EPA 9060A

QC Batch Method: EPA 9060A

Analysis Description: 9060 TOC

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321807001, 70321807002, 70321807003

METHOD BLANK: 1942141

Matrix: Water

Associated Lab Samples: 70321807001, 70321807002, 70321807003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<0.50	0.50	11/18/24 15:37	
Total Organic Carbon	mg/L	<0.50	0.50	11/18/24 15:37	
Total Organic Carbon	mg/L	<0.50	0.50	11/18/24 15:37	
Total Organic Carbon	mg/L	<0.50	0.50	11/18/24 15:37	
Total Organic Carbon	mg/L	<0.50	0.50	11/18/24 15:37	

LABORATORY CONTROL SAMPLE: 1942142

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	10	10.0	100	85-115	
Total Organic Carbon	mg/L	10	9.9	99	85-115	
Total Organic Carbon	mg/L	10	10.1	101	85-115	
Total Organic Carbon	mg/L	10	10.1	101	85-115	
Total Organic Carbon	mg/L	10	10.1	101	85-115	

MATRIX SPIKE SAMPLE: 1942143

Parameter	Units	70322287001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	<1.0	10	10	99	75-125	
Total Organic Carbon	mg/L	<1.0	10	9.8	98	75-125	
Total Organic Carbon	mg/L	<1.0	10	10.0	100	75-125	
Total Organic Carbon	mg/L	<1.0	10	10.0	99	75-125	
Total Organic Carbon	mg/L	<1.0	10	10	99	75-125	

SAMPLE DUPLICATE: 1942144

Parameter	Units	70322287001 Result	Dup Result	RPD	Qualifiers
Mean Total Organic Carbon	mg/L	<1.0	<1.0		
Total Organic Carbon	mg/L	<1.0	<1.0		
Total Organic Carbon	mg/L	<1.0	<1.0		
Total Organic Carbon	mg/L	<1.0	<1.0		
Total Organic Carbon	mg/L	<1.0	<1.0		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 370788

- [1] The post digestion spike for sample 70320854008 (PDS 1938809) did not meet acceptance criteria for Silver, Calcium, Magnesium and Sodium.
- [2] The serial dilution for sample 70320854008 (SD 1938810) did not meet acceptance criteria for Boron.

Batch: 370833

- [1] The post digestion spike for sample 70321373007 (PDS 1939254) did not meet acceptance criteria for Silver and Sodium.
- [2] The serial dilution for sample 70321373007 (SD 1939255) did not meet acceptance criteria for Aluminum.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OPERATIONAL WELLS 11/12

Pace Project No.: 70321807

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70321807001	MW-1		372350		
70321807002	MW-8D		372350		
70321807003	MW-10D		372350		
70321807001	MW-1	SM22 2340B	371276		
70321807002	MW-8D	SM22 2340B	371276		
70321807003	MW-10D	SM22 2340B	371276		
70321807001	MW-1	EPA 3005A	370750	EPA 6010D	370788
70321807002	MW-8D	EPA 3005A	370750	EPA 6010D	370788
70321807003	MW-10D	EPA 3005A	370780	EPA 6010D	370833
70321807001	MW-1	EPA 7470A	371488	EPA 7470A	371537
70321807002	MW-8D	EPA 7470A	371488	EPA 7470A	371537
70321807003	MW-10D	EPA 7470A	371488	EPA 7470A	371537
70321807001	MW-1	EPA 180.1	370722		
70321807002	MW-8D	EPA 180.1	370722		
70321807003	MW-10D	EPA 180.1	370722		
70321807001	MW-1	SM22 2320B	372579		
70321807002	MW-8D	SM22 2320B	372579		
70321807003	MW-10D	SM22 2320B	372579		
70321807001	MW-1	SM22 2510B	371289		
70321807002	MW-8D	SM22 2510B	371289		
70321807003	MW-10D	SM22 2510B	371289		
70321807001	MW-1	SM22 2540C	371337		
70321807002	MW-8D	SM22 2540C	371337		
70321807003	MW-10D	SM22 2540C	371337		
70321807001	MW-1	EPA 410.4	371235	EPA 410.4	371238
70321807002	MW-8D	EPA 410.4	371235	EPA 410.4	371238
70321807003	MW-10D	EPA 410.4	371235	EPA 410.4	371238
70321807001	MW-1	SM22 5210B	370635	SM22 5210B	371794
70321807002	MW-8D	SM22 5210B	370635	SM22 5210B	371794
70321807003	MW-10D	SM22 5210B	370635	SM22 5210B	371794
70321807001	MW-1	EPA 300.0	372447		
70321807002	MW-8D	EPA 300.0	372447		
70321807003	MW-10D	EPA 300.0	372450		
70321807001	MW-1	EPA 351.2	370736	EPA 351.2	370739
70321807002	MW-8D	EPA 351.2	370736	EPA 351.2	370739
70321807003	MW-10D	EPA 351.2	370736	EPA 351.2	370739
70321807001	MW-1	EPA 353.2	371379		
70321807002	MW-8D	EPA 353.2	371379		
70321807003	MW-10D	EPA 353.2	371379		
70321807001	MW-1	SM22 4500 NH3 H	371294		
70321807002	MW-8D	SM22 4500 NH3 H	371294		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OPERATIONAL WELLS 11/12
Pace Project No.: 70321807

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70321807003	MW-10D	SM22 4500 NH3 H	371294		
70321807001	MW-1	EPA 9060A	371268		
70321807002	MW-8D	EPA 9060A	371268		
70321807003	MW-10D	EPA 9060A	371268		

REPORT OF LABORATORY ANALYSIS

WO#: 70321807



ALL : 70321807

Chain-of-Custody is a LEGAL DOCUMENT. Complete all relevant fields

Billing Information: TJ Milo, 306 Fayette Avenue Realty,
566 Westchester Ave. Rye Brook, NY 10573

Company: Al Tun Landfill

Address: 73 Hartley Road Goshen, NY 10924

Report To: TJ Milo

Email To:

Copy To:

Customer Project Name/Number: Operational Wells

Site Collection Info/Address:

State NY County/City Time Zone Collected EST

Phone: 914-907-2385
Fax:

Site/Facility ID #

Compliance Monitoring?
[] Yes [] No

Collected by (print): *Don Shuman*

Purchase Order #

DW PWS ID #

Collected by (signature): *Don Shuman*

Quote #

DW Location Code #

Turnaround Date Required:
Standard

RUSH:
Same Day Next Day
Day 3 Day 4 Day 5 Day
(Expedite Charges Apply)

Immediately Packed on Ice?
[] Yes [] No

Sample Disposal:
[] Dispose as appropriate [] Return
[] Archive [] Hold

Analysis:

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix*	Comp/Grab	Collected (or Composite Start)		Composite End		# of Ctns
			Date	Time	Date	Time	
MW-1	GW	G	11/12/24	11:05			8
MW-3A	GW	G					8
MW-8D	GW	G	11/12/24	11:25			8
MW-10D	GW	G	11/12/24	11:15			8
MW-7S	GW	G					8
MW-6DA	GW	G					8
MW-6S	GW	G					8
MW-17D	GW	G					8
MW-17S	GW	G					8
MW-5D MS/MSD	GW	G					14
MW-5S	GW	G					8
MW-27D	GW	G					8

Customer Remarks/ Special Conditions/ Possible Hazards: Part 360 1993 Routines ASP A

Type of Ice Used:
Wet [] Blue [] Dry [] None []

Packing Material Used:
70/100 C

Radient sample(s) screened:
(<500 cpm): [] Y [] N [] NA

Samples received via:
FEDEX [] UPS [] Client [] Courier []

Received by/Company: (Signature)
JSA PACE

Received by/Company: (Signature)
JSA PACE

Received by/Company: (Signature)
JSA PACE

Received by/Company: (Signature)
JSA PACE

Date/Time: 11/12/24 1:30

Date/Time: 11/13/24

Date/Time: 11/13/24 8:00

Date/Time: 11/13/24 8:00

Relinquished by/Company: (Signature)

Relinquished by/Company: (Signature)

Relinquished by/Company: (Signature)

Relinquished by/Company: (Signature)

Lab Project Manager: Jen Anzari

Container Preservative Type **

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

TAS, CA, CD, FE, MN, MG, PB, K, NA+CALC		ALKALINITY		TOTAL PHENOLS		NH3, TKN, COD		TOC		TDS, CL, NO3, SO4, BROMIDE, BOD5		HARDNESS		PH, EH, TEMP, TURBIDITY, CONDUCTIVITY	

LAB Sample Receipt Checklist:

Custody Seals Present/Intact	/	NA
Custody Signatures Present	/	NA
Collector Signature Present	/	NA
Bottles Intact	/	NA
Correct Bottles	/	NA
Sufficient Volume	/	NA
Samples received on ice	/	NA
VOA - Headspace Acceptable	/	NA
USDA Regulated Soils	/	NA
Samples in holding time	/	NA
Residual Chlorine Present	/	NA
Cl Strips:	/	NA
Sample pH Acceptable	/	NA
pH Strips:	/	NA
Sulfide Present	/	NA
Lead Acetate Strips:	/	NA

LAB USE ONLY: ↓
Lab Sample # / Comments

LAB Sample Temperature Info:

Temp Blank received: Y NA
Therm ID #: TH211
Cooler 1 Temp Upon Receipt 2.6 oc
Cooler 1 Therm Corr. Factor +0.3 oc
Cooler 1 Corrected Temp 2.9 oc

Comments:

Trip Blank Received: Y N NA
HCL MeOH TSP Other
NonConformance(s)
YES / NO

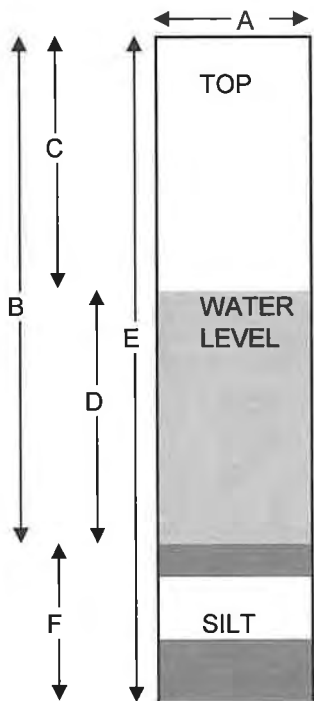
Page of

PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-1

PACE ID

Condition of Well: Good Locked: yes
 Method of Evacuation: Bailer Lock ID: _____
 Method of Sampling: Bailer



A.	Diameter of Well	<u>6</u>	inches
B.	Well Depth Measured	<u>41.45</u>	feet
C.	Depth to Water	<u>30.18</u>	feet
D.	Length of Water Column (calculated)	<u>11.27</u>	feet
	Conversion Factor	<u>1.47</u>	-----
	Well Volume (calculated)	<u>16.57</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>49.7</u>	gallons
	Actual Volume Evacuated	<u>25.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling	
Date	<u>11/11/24</u>	<u>11/12/24</u>	
Time	<u>12:20</u>	<u>11:05</u>	
EH	<u>-38</u>	<u>-84</u>	mV
Temperature	<u>13.8</u>	<u>11.3</u>	C
pH	<u>6.47</u>	<u>6.58</u>	SU
Specific Cond.	<u>1429</u>	<u>1453</u>	uS
Turbidity	<u>44.4</u>	<u>51.7</u>	NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>	
Appearance	<u>cloudy</u>	<u>cloudy</u>	

% Recharge:

Initial Depth to Water 30.18 feet

Recharge Depth to Water 30.15 feet

2nd water column height _____ %

1st water column height _____

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Sampler:

Matt Broker

Signature:

[Signature]

Weather: 17C sunny, windy

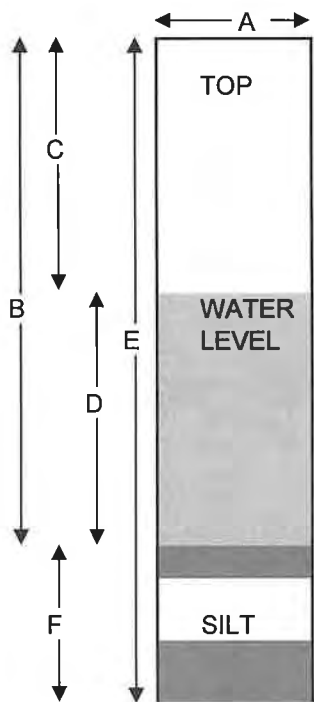
Observations: sample cloudy with slight odor

PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-8D

PACE ID

Condition of Well: Good Locked: yes
 Method of Evacuation: Bailer Lock ID:
 Method of Sampling: Bailer



A. Diameter of Well 2 inches
 B. Well Depth Measured 85.12 feet
 C. Depth to Water 76.15 feet
 D. Length of Water Column (calculated) 8.97 feet
 Conversion Factor 0.16 -----
 Well Volume (calculated) 1.44 gallons
 No. of Volumes to be Evacuated 3 -----
 Total Volume to be Evacuated 4.32 gallons
 Actual Volume Evacuated 5.0 gallons
 E. Installed Well Depth (if known) N/A feet
 F. Depth of Silt (calculated) N/A feet

Field Measurements	Initial Evacuation	Final Sampling	
Date	<u>11/11</u>	<u>11/12/24</u>	
Time	<u>13:15</u>	<u>11:25</u>	
EH	<u>107</u>	<u>68</u>	mV
Temperature	<u>16.1</u>	<u>11.4</u>	C
pH	<u>7.20</u>	<u>7.02</u>	SU
Specific Cond.	<u>540.7</u>	<u>560.2</u>	uS
Turbidity	<u>7.01</u>	<u>2.77</u>	NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>	
Appearance	<u>clear</u>	<u>clear</u>	

% Recharge:

Initial Depth to Water 76.15 feet
 Recharge Depth to Water 76.45 feet
 2nd water column height %
 1st water column height

Elevation(Top of Casing) N/A feet
 G.W. Elevation=N/A feet
 G.W.Elevation =Top of Case Elev-Total Depth

Weather: 17C sunny windy
 Observations: sample clear

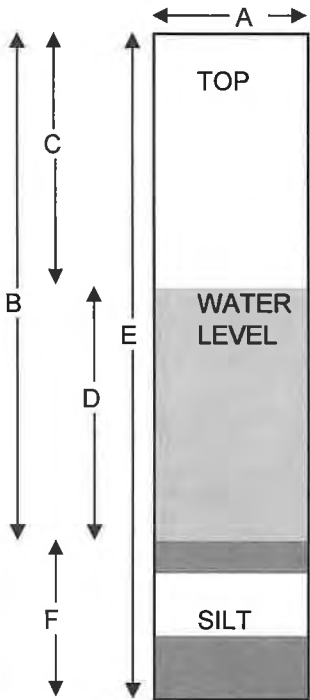
Sampler: Matt Broker
 Signature: [Signature]

PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-10D

PACE ID

Condition of Well: Good Locked: yes
 Method of Evacuation: Bailer Lock ID:
 Method of Sampling: Bailer



A.	Diameter of Well	<u>2</u>	inches
B.	Well Depth Measured	<u>81.72</u>	feet
C.	Depth to Water	<u>61.10</u>	feet
D.	Length of Water Column (calculated)	<u>20.62</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>3.30</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>9.90</u>	gallons
	Actual Volume Evacuated	<u>10.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling	
Date	<u>11/11/24</u>	<u>11/12/24</u>	
Time	<u>12:45</u>	<u>11:15</u>	
EH	<u>-20</u>	<u>-10</u>	mV
Temperature	<u>12.7</u>	<u>9.5</u>	C
pH	<u>6.79</u>	<u>6.90</u>	SU
Specific Cond.	<u>1084</u>	<u>1131</u>	uS
Turbidity	<u>4.12</u>	<u>3.46</u>	NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>	
Appearance	<u>clear</u>	<u>clear</u>	

% Recharge:
 Initial Depth to Water 61.10 feet
 Recharge Depth to Water 62.05 feet
 2nd water column height %
 1st water column height

Elevation(Top of Casing) N/A feet
 G.W. Elevation=N/A feet
 G.W.Elevation =Top of Case Elev-Total Depth

Weather: 17C sunny windy
 Observations: sample clear with sulfur odor

Sampler: Matt Broker
 Signature: [Signature]



Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

M4K1046

Project Description

70321807

For:

Avida Sharma

Pace Analytical Melville

575 Broad Hollow RD

Melville, NY 11747

Customer Relationship Coordinator

Jacqueline Parsons

Monday, December 2, 2024

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories Inc., - Marietta, OH. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc.

158 Starlite Drive | Marietta, OH 45750 | 800.373.4071 p | www.microbac.com



Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

M4K1046

Pace Analytical Melville

Avida Sharma
575 Broad Hollow RD
Melville, NY 11747

Project Name: 70321807

Project / PO Number: 70321807 KMM
Received: 11/15/2024
Reported: 12/02/2024

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
MW-1	M4K1046-01	Aqueous			11/12/24 11:05	11/15/24 10:45
MW-8D	M4K1046-02	Aqueous			11/12/24 11:25	11/15/24 10:45
MW-10D	M4K1046-03	Aqueous			11/12/24 11:15	11/15/24 10:45



Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

M4K1046

Analytical Testing Parameters

Client Sample ID:	MW-1	Collection Date:	11/12/2024 11:05
Sample Matrix:	Aqueous		
Lab Sample ID:	M4K1046-01		

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0100	0.0100	mg/L	1		11/20/24 1106	11/20/24 1909	APH

Client Sample ID:	MW-8D	Collection Date:	11/12/2024 11:25
Sample Matrix:	Aqueous		
Lab Sample ID:	M4K1046-02		

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0200	0.0200	mg/L	1		11/27/24 1448	11/29/24 1500	TTB

Client Sample ID:	MW-10D	Collection Date:	11/12/2024 11:15
Sample Matrix:	Aqueous		
Lab Sample ID:	M4K1046-03		

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0200	0.0200	mg/L	1		11/25/24 0847	11/26/24 1255	TTB

Definitions

DF:	Dilution Factor representing the amount the sample was diluted during analysis and may not represent preparation factors.
MDL:	Minimum Detection Limit
mg/L:	Milligrams per Liter
RL:	Reporting Limit

Cooler Receipt Log

Cooler ID:	Default Cooler	Temp:	3.6°C
------------	----------------	-------	-------

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes	Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes		



Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

M4K1046

Project Requested Certification(s)

Microbac Laboratories Inc., - Marietta, OH
10861

NY State Department of Health

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

*The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. **The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.***

Reviewed and Approved By:

A handwritten signature in black ink that reads "J Parsons".

Jacqueline Parsons
Customer Relationship Coordinator
Reported: 12/02/2024 16:17

Chain of Custody

PASI New York Laboratory



Workorder: 70321807

Workorder Name: OPERATIONAL WELLS 11/12

Results Requested By: 11/27/2024



Report/Invoice To: Kimberley M. Mack
Pace Analytical Melville
575 Broad Hollow Road
Melville, NY 11747
Phone 516-370-6052
Email: kimberley.mack@pacelabs.com

Subcontract To: MICROBAC
158 Starlite Drive
Marietta, OH 45750
P.O. 70321807 KMM

Send Invoice To: invoices@pacelabs.coupanhost.com
State of Sample Origin: NY

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	H2SO4	Preserved Containers	PHENOLS	LAB USE ONLY
1	MW-1	11/12/2024 11:05	70321807001	Water			X	
2	MW-8D	11/12/2024 11:25	70321807002	Water			X	
3	MW-10D	11/12/2024 11:15	70321807003	Water			X	
4								
5								

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	P-LI	11/14/24	Stephanie Murphy		
2					
3					

Cooler Temperature on Receipt 3.6 °C

Custody Seal Y or N

Received on Ice Y or N

Samples Intact Y or N

Pace Analytical - Melville, NY
Rec'd 11/19/2024 10:45
By Stephanie Murphy

M 4 K 1 0 4 6



Temp 3.6 (Signature)

[illegible]

pH Lot # HC447997

pH

Exceptions

[illegible]

PRESERVATIVE EXCEPTIONS

NONE

AS NOTED

Document Control # 1957
Last 04-10-2019

Issued to: Document Master File



December 05, 2024

TJ Milo
Al Turi Landfill
73 Hartley Road
Goshen, NY 10924

RE: Project: OPERATIONAL WELLS 11/13
Pace Project No.: 70322186

Dear TJ Milo:

Enclosed are the analytical results for sample(s) received by the laboratory on November 14, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Kimberley Mack".

Kimberley M. Mack
kimberley.mack@pacelabs.com
516-370-6052
Project Manager

Enclosures

cc: Marc Colantuono
Diane Conroy, Tetra Tech



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Pace Analytical Services, LLC - Melville, NY

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Texas Certification #: T104704582

Florida Certification #: E871198

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: MW-3A		Lab ID: 70322186001	Collected: 11/13/24 10:50		Received: 11/14/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B)	311000	ug/L	830	1		11/19/24 15:39		
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Melville						
Arsenic	<10.0	ug/L	10.0	1	11/19/24 10:10	11/19/24 15:39	7440-38-2	
Cadmium	<2.5	ug/L	2.5	1	11/19/24 10:10	11/19/24 15:39	7440-43-9	
Calcium	87500	ug/L	200	1	11/19/24 10:10	11/19/24 15:39	7440-70-2	
Iron	4590	ug/L	100	1	11/19/24 10:10	11/19/24 15:39	7439-89-6	
Lead	<5.0	ug/L	5.0	1	11/19/24 10:10	11/19/24 15:39	7439-92-1	
Magnesium	22500	ug/L	200	1	11/19/24 10:10	11/19/24 15:39	7439-95-4	
Manganese	567	ug/L	10.0	1	11/19/24 10:10	11/19/24 15:39	7439-96-5	
Potassium	<5000	ug/L	5000	1	11/19/24 10:10	11/19/24 15:39	7440-09-7	
Sodium	18500	ug/L	5000	1	11/19/24 10:10	11/19/24 15:39	7440-23-5	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Melville						
Mercury	<0.20	ug/L	0.20	1	11/19/24 07:22	11/19/24 15:39	7439-97-6	
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville						
Turbidity	65.0	NTU	2.0	2		11/14/24 20:56		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	238	mg/L	1.0	1		11/27/24 10:48		
2510B Specific Conductance		Analytical Method: SM22 2510B Pace Analytical Services - Melville						
Specific Conductance	613	umhos/cm	1.0	1		11/18/24 13:37		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville						
Total Dissolved Solids	344	mg/L	25.0	1		11/19/24 14:27		
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville						
Chemical Oxygen Demand	29.2	mg/L	10.0	1	11/19/24 03:22	11/19/24 05:40		
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville						
BOD, 5 day	<2.0	mg/L	2.0	1	11/14/24 16:15	11/19/24 11:41		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: MW-3A		Lab ID: 70322186001	Collected: 11/13/24 10:50		Received: 11/14/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville						
Bromide	<0.50	mg/L	0.50	1		11/26/24 21:49	24959-67-9	
Chloride	26.3	mg/L	2.0	1		11/26/24 21:49	16887-00-6	
Sulfate	43.9	mg/L	5.0	1		11/26/24 21:49	14808-79-8	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville						
Nitrogen, Kjeldahl, Total	0.69	mg/L	0.10	1	11/15/24 03:00	11/15/24 11:22	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrate as N	0.075	mg/L	0.050	1		11/15/24 03:23	14797-55-8	
Nitrate-Nitrite (as N)	0.081	mg/L	0.050	1		11/15/24 03:23	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrite as N	<0.050	mg/L	0.050	1		11/15/24 00:52	14797-65-0	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville						
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		11/19/24 13:25	7664-41-7	
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville						
Total Organic Carbon	<1.0	mg/L	1.0	1		11/18/24 18:48	7440-44-0	
Total Organic Carbon	<1.0	mg/L	1.0	1		11/18/24 18:48	7440-44-0	
Total Organic Carbon	<1.0	mg/L	1.0	1		11/18/24 18:48	7440-44-0	
Total Organic Carbon	<1.0	mg/L	1.0	1		11/18/24 18:48	7440-44-0	
Mean Total Organic Carbon	<1.0	mg/L	1.0	1		11/18/24 18:48	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: MW-5D MS/MSD		Lab ID: 70322186002		Collected: 11/13/24 12:05		Received: 11/14/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	126000	ug/L	830	1		11/19/24 15:41			
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Arsenic	<10.0	ug/L	10.0	1	11/19/24 10:10	11/19/24 15:41	7440-38-2		
Cadmium	<2.5	ug/L	2.5	1	11/19/24 10:10	11/19/24 15:41	7440-43-9		
Calcium	35500	ug/L	200	1	11/19/24 10:10	11/19/24 15:41	7440-70-2		
Iron	314	ug/L	100	1	11/19/24 10:10	11/19/24 15:41	7439-89-6		
Lead	<5.0	ug/L	5.0	1	11/19/24 10:10	11/19/24 15:41	7439-92-1		
Magnesium	8960	ug/L	200	1	11/19/24 10:10	11/19/24 15:41	7439-95-4		
Manganese	37.3	ug/L	10.0	1	11/19/24 10:10	11/19/24 15:41	7439-96-5		
Potassium	<5000	ug/L	5000	1	11/19/24 10:10	11/19/24 15:41	7440-09-7		
Sodium	7910	ug/L	5000	1	11/19/24 10:10	11/19/24 15:41	7440-23-5		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Melville							
Mercury	<0.20	ug/L	0.20	1	11/19/24 07:22	11/19/24 15:40	7439-97-6		
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville							
Turbidity	20.0	NTU	1.0	1		11/14/24 20:57			
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	122	mg/L	1.0	1		11/27/24 10:56			
2510B Specific Conductance		Analytical Method: SM22 2510B Pace Analytical Services - Melville							
Specific Conductance	275	umhos/cm	1.0	1		11/18/24 13:39			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	146	mg/L	25.0	1		11/19/24 14:27			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	29.2	mg/L	10.0	1	11/19/24 03:22	11/19/24 05:41			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<2.0	mg/L	2.0	1	11/14/24 16:19	11/19/24 11:43			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: MW-5D MS/MSD		Lab ID: 70322186002		Collected: 11/13/24 12:05		Received: 11/14/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<0.50	mg/L	0.50	1		11/26/24 22:06	24959-67-9	M1	
Chloride	2.9	mg/L	2.0	1		11/26/24 22:06	16887-00-6		
Sulfate	18.8	mg/L	5.0	1		11/26/24 22:06	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	0.45	mg/L	0.10	1	11/15/24 03:00	11/15/24 11:22	7727-37-9		
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	0.091	mg/L	0.050	1		11/15/24 03:54	14797-55-8		
Nitrate-Nitrite (as N)	0.091	mg/L	0.050	1		11/15/24 03:54	7727-37-9		
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050	1		11/15/24 01:23	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		11/19/24 13:28	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 12:34	7440-44-0		
Total Organic Carbon	1.0	mg/L	1.0	1		11/25/24 12:34	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 12:34	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 12:34	7440-44-0		
Mean Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 12:34	7440-44-0		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: MW-5S		Lab ID: 70322186003		Collected: 11/13/24 11:55		Received: 11/14/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	484000	ug/L	830	1		11/19/24 15:53			
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Arsenic	93.4	ug/L	10.0	1	11/19/24 10:10	11/19/24 15:53	7440-38-2		
Cadmium	<2.5	ug/L	2.5	1	11/19/24 10:10	11/19/24 15:53	7440-43-9		
Calcium	155000	ug/L	200	1	11/19/24 10:10	11/19/24 15:53	7440-70-2		
Iron	23400	ug/L	100	1	11/19/24 10:10	11/19/24 15:53	7439-89-6		
Lead	<5.0	ug/L	5.0	1	11/19/24 10:10	11/19/24 15:53	7439-92-1		
Magnesium	23500	ug/L	200	1	11/19/24 10:10	11/19/24 15:53	7439-95-4		
Manganese	1660	ug/L	10.0	1	11/19/24 10:10	11/19/24 15:53	7439-96-5		
Potassium	<5000	ug/L	5000	1	11/19/24 10:10	11/19/24 15:53	7440-09-7		
Sodium	53900	ug/L	5000	1	11/19/24 10:10	11/19/24 15:53	7440-23-5		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Melville							
Mercury	<0.20	ug/L	0.20	1	11/19/24 07:22	11/19/24 15:49	7439-97-6		
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville							
Turbidity	350	NTU	50.0	50		11/14/24 20:59			
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	412	mg/L	1.0	1		11/27/24 11:35			
2510B Specific Conductance		Analytical Method: SM22 2510B Pace Analytical Services - Melville							
Specific Conductance	1110	umhos/cm	1.0	1		11/18/24 13:42			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	624	mg/L	50.0	1		11/19/24 14:37			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	22.8	mg/L	10.0	1	11/19/24 03:22	11/19/24 05:41			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<2.0	mg/L	2.0	1	11/14/24 16:26	11/19/24 11:48			

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: MW-5S		Lab ID: 70322186003		Collected: 11/13/24 11:55		Received: 11/14/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<0.50	mg/L	0.50	1		11/26/24 22:58	24959-67-9		
Chloride	87.1	mg/L	2.0	1		11/26/24 22:58	16887-00-6		
Sulfate	52.9	mg/L	5.0	1		11/26/24 22:58	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	1.9	mg/L	0.50	1	11/15/24 03:00	11/15/24 11:25	7727-37-9		
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	0.092	mg/L	0.050	1		11/15/24 03:43	14797-55-8		
Nitrate-Nitrite (as N)	0.10	mg/L	0.050	1		11/15/24 03:43	7727-37-9		
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050	1		11/15/24 01:14	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		11/19/24 14:03	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	1.0	mg/L	1.0	1		11/25/24 13:19	7440-44-0		
Total Organic Carbon	1.1	mg/L	1.0	1		11/25/24 13:19	7440-44-0		
Total Organic Carbon	1.1	mg/L	1.0	1		11/25/24 13:19	7440-44-0		
Total Organic Carbon	1.1	mg/L	1.0	1		11/25/24 13:19	7440-44-0		
Mean Total Organic Carbon	1.1	mg/L	1.0	1		11/25/24 13:19	7440-44-0		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: MW-6DA		Lab ID: 70322186004		Collected: 11/13/24 11:18		Received: 11/14/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	194000	ug/L	830	1		11/19/24 15:54			
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Arsenic	<10.0	ug/L	10.0	1	11/19/24 10:10	11/19/24 15:54	7440-38-2		
Cadmium	<2.5	ug/L	2.5	1	11/19/24 10:10	11/19/24 15:54	7440-43-9		
Calcium	62500	ug/L	200	1	11/19/24 10:10	11/19/24 15:54	7440-70-2		
Iron	831	ug/L	100	1	11/19/24 10:10	11/19/24 15:54	7439-89-6		
Lead	<5.0	ug/L	5.0	1	11/19/24 10:10	11/19/24 15:54	7439-92-1		
Magnesium	9150	ug/L	200	1	11/19/24 10:10	11/19/24 15:54	7439-95-4		
Manganese	286	ug/L	10.0	1	11/19/24 10:10	11/19/24 15:54	7439-96-5		
Potassium	<5000	ug/L	5000	1	11/19/24 10:10	11/19/24 15:54	7440-09-7		
Sodium	11000	ug/L	5000	1	11/19/24 10:10	11/19/24 15:54	7440-23-5		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Melville							
Mercury	<0.20	ug/L	0.20	1	11/19/24 07:22	11/19/24 15:50	7439-97-6		
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville							
Turbidity	7.3	NTU	1.0	1		11/14/24 21:01			
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	133	mg/L	1.0	1		11/27/24 11:56			
2510B Specific Conductance		Analytical Method: SM22 2510B Pace Analytical Services - Melville							
Specific Conductance	410	umhos/cm	1.0	1		11/18/24 13:43			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	251	mg/L	25.0	1		11/19/24 14:37			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	20.7	mg/L	10.0	1	11/19/24 03:22	11/19/24 05:41			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<2.0	mg/L	2.0	1	11/14/24 16:29	11/19/24 11:50			

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: MW-6DA		Lab ID: 70322186004	Collected: 11/13/24 11:18		Received: 11/14/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville						
Bromide	<0.50	mg/L	0.50	1		11/26/24 23:51	24959-67-9	
Chloride	3.5	mg/L	2.0	1		11/26/24 23:51	16887-00-6	
Sulfate	68.4	mg/L	5.0	1		11/26/24 23:51	14808-79-8	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville						
Nitrogen, Kjeldahl, Total	0.49	mg/L	0.10	1	11/15/24 03:00	11/15/24 11:26	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrate as N	<0.050	mg/L	0.050	1		11/15/24 03:28	14797-55-8	
Nitrate-Nitrite (as N)	0.057	mg/L	0.050	1		11/15/24 03:28	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrite as N	<0.050	mg/L	0.050	1		11/15/24 01:00	14797-65-0	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville						
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		11/19/24 13:33	7664-41-7	
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville						
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 13:30	7440-44-0	
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 13:30	7440-44-0	
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 13:30	7440-44-0	
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 13:30	7440-44-0	
Mean Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 13:30	7440-44-0	

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: MW-6S		Lab ID: 70322186005		Collected: 11/13/24 11:25		Received: 11/14/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	480000	ug/L	830	1		11/19/24 15:56			
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Arsenic	19.5	ug/L	10.0	1	11/19/24 10:10	11/19/24 15:56	7440-38-2		
Cadmium	<2.5	ug/L	2.5	1	11/19/24 10:10	11/19/24 15:56	7440-43-9		
Calcium	157000	ug/L	200	1	11/19/24 10:10	11/19/24 15:56	7440-70-2		
Iron	81400	ug/L	100	1	11/19/24 10:10	11/19/24 15:56	7439-89-6		
Lead	5.9	ug/L	5.0	1	11/19/24 10:10	11/19/24 15:56	7439-92-1		
Magnesium	21300	ug/L	200	1	11/19/24 10:10	11/19/24 15:56	7439-95-4		
Manganese	2550	ug/L	10.0	1	11/19/24 10:10	11/19/24 15:56	7439-96-5		
Potassium	<5000	ug/L	5000	1	11/19/24 10:10	11/19/24 15:56	7440-09-7		
Sodium	10700	ug/L	5000	1	11/19/24 10:10	11/19/24 15:56	7440-23-5		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Melville							
Mercury	<0.20	ug/L	0.20	1	11/19/24 07:22	11/19/24 15:51	7439-97-6		
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville							
Turbidity	900	NTU	50.0	50		11/14/24 21:04			
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	451	mg/L	1.0	1		11/27/24 12:16			
2510B Specific Conductance		Analytical Method: SM22 2510B Pace Analytical Services - Melville							
Specific Conductance	911	umhos/cm	1.0	1		11/18/24 13:48			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	494	mg/L	50.0	1		11/19/24 14:38			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	95.9	mg/L	10.0	1	11/19/24 03:22	11/19/24 05:42			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	8.9	mg/L	2.0	1	11/14/24 16:33	11/19/24 11:56			

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: MW-6S		Lab ID: 70322186005	Collected: 11/13/24 11:25		Received: 11/14/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville						
Bromide	<0.50	mg/L	0.50	1		11/27/24 00:09	24959-67-9	
Chloride	18.2	mg/L	2.0	1		11/27/24 00:09	16887-00-6	
Sulfate	6.0	mg/L	5.0	1		11/27/24 00:09	14808-79-8	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville						
Nitrogen, Kjeldahl, Total	6.6	mg/L	0.50	1	11/15/24 03:00	11/15/24 11:27	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrate as N	0.058	mg/L	0.050	1		11/15/24 03:30	14797-55-8	
Nitrate-Nitrite (as N)	0.084	mg/L	0.050	1		11/15/24 03:30	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrite as N	<0.050	mg/L	0.050	1		11/15/24 01:02	14797-65-0	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville						
Nitrogen, Ammonia	2.6	mg/L	0.50	5		11/19/24 13:34	7664-41-7	
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville						
Total Organic Carbon	9.5	mg/L	1.0	1		11/25/24 13:42	7440-44-0	
Total Organic Carbon	9.5	mg/L	1.0	1		11/25/24 13:42	7440-44-0	
Total Organic Carbon	9.6	mg/L	1.0	1		11/25/24 13:42	7440-44-0	
Total Organic Carbon	9.4	mg/L	1.0	1		11/25/24 13:42	7440-44-0	
Mean Total Organic Carbon	9.5	mg/L	1.0	1		11/25/24 13:42	7440-44-0	

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: MW-7S		Lab ID: 70322186006	Collected: 11/13/24 11:07	Received: 11/14/24 08:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B	594000	ug/L	830	1		11/19/24 15:57		
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Melville						
Arsenic	<10.0	ug/L	10.0	1	11/19/24 10:10	11/19/24 15:57	7440-38-2	
Cadmium	<2.5	ug/L	2.5	1	11/19/24 10:10	11/19/24 15:57	7440-43-9	
Calcium	176000	ug/L	200	1	11/19/24 10:10	11/19/24 15:57	7440-70-2	
Iron	11200	ug/L	100	1	11/19/24 10:10	11/19/24 15:57	7439-89-6	
Lead	<5.0	ug/L	5.0	1	11/19/24 10:10	11/19/24 15:57	7439-92-1	
Magnesium	37500	ug/L	200	1	11/19/24 10:10	11/19/24 15:57	7439-95-4	
Manganese	1540	ug/L	10.0	1	11/19/24 10:10	11/19/24 15:57	7439-96-5	
Potassium	<5000	ug/L	5000	1	11/19/24 10:10	11/19/24 15:57	7440-09-7	
Sodium	56300	ug/L	5000	1	11/19/24 10:10	11/19/24 15:57	7440-23-5	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Melville						
Mercury	<0.20	ug/L	0.20	1	11/19/24 07:22	11/19/24 15:53	7439-97-6	
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville						
Turbidity	95.0	NTU	5.0	5		11/14/24 21:06		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	468	mg/L	1.0	1		11/27/24 12:36		
2510B Specific Conductance		Analytical Method: SM22 2510B Pace Analytical Services - Melville						
Specific Conductance	1350	umhos/cm	1.0	1		11/18/24 13:50		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville						
Total Dissolved Solids	764	mg/L	50.0	1		11/19/24 14:38		
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville						
Chemical Oxygen Demand	27.1	mg/L	10.0	1	11/19/24 03:22	11/19/24 05:42		
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville						
BOD, 5 day	<2.0	mg/L	2.0	1	11/14/24 16:38	11/19/24 11:58		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: MW-7S		Lab ID: 70322186006		Collected: 11/13/24 11:07		Received: 11/14/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<0.50	mg/L	0.50	1		11/27/24 00:26	24959-67-9		
Chloride	129	mg/L	10.0	5		12/02/24 11:37	16887-00-6		
Sulfate	55.0	mg/L	5.0	1		11/27/24 00:26	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	0.49	mg/L	0.10	1	11/15/24 03:00	11/15/24 11:28	7727-37-9		
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	<0.050	mg/L	0.050	1		11/15/24 03:27	14797-55-8		
Nitrate-Nitrite (as N)	<0.050	mg/L	0.050	1		11/15/24 03:27	7727-37-9		
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050	1		11/15/24 00:59	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		11/19/24 13:38	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 13:52	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 13:52	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 13:52	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 13:52	7440-44-0		
Mean Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 13:52	7440-44-0		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: MW-9S		Lab ID: 70322186007		Collected: 11/13/24 13:00		Received: 11/14/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	698000	ug/L	830	1		11/19/24 15:59			
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Arsenic	61.0	ug/L	10.0	1	11/19/24 10:10	11/19/24 15:59	7440-38-2		
Cadmium	<2.5	ug/L	2.5	1	11/19/24 10:10	11/19/24 15:59	7440-43-9		
Calcium	230000	ug/L	200	1	11/19/24 10:10	11/19/24 15:59	7440-70-2		
Iron	15800	ug/L	100	1	11/19/24 10:10	11/19/24 15:59	7439-89-6		
Lead	<5.0	ug/L	5.0	1	11/19/24 10:10	11/19/24 15:59	7439-92-1		
Magnesium	30000	ug/L	200	1	11/19/24 10:10	11/19/24 15:59	7439-95-4		
Manganese	1080	ug/L	10.0	1	11/19/24 10:10	11/19/24 15:59	7439-96-5		
Potassium	<5000	ug/L	5000	1	11/19/24 10:10	11/19/24 15:59	7440-09-7		
Sodium	<5000	ug/L	5000	1	11/19/24 10:10	11/19/24 15:59	7440-23-5		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Melville							
Mercury	<0.20	ug/L	0.20	1	11/19/24 07:22	11/19/24 15:54	7439-97-6		
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville							
Turbidity	140	NTU	5.0	5		11/14/24 21:08			
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	634	mg/L	1.0	1		11/27/24 13:01			
2510B Specific Conductance		Analytical Method: SM22 2510B Pace Analytical Services - Melville							
Specific Conductance	1220	umhos/cm	1.0	1		11/18/24 13:52			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	716	mg/L	50.0	1		11/19/24 14:38			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	24.9	mg/L	10.0	1	11/19/24 03:22	11/19/24 05:42			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	3.3	mg/L	2.0	1	11/14/24 16:42	11/19/24 12:00			

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: MW-9S		Lab ID: 70322186007		Collected: 11/13/24 13:00		Received: 11/14/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<0.50	mg/L	0.50	1		11/27/24 00:43	24959-67-9		
Chloride	3.9	mg/L	2.0	1		11/27/24 00:43	16887-00-6		
Sulfate	39.1	mg/L	5.0	1		11/27/24 00:43	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	0.56	mg/L	0.10	1	11/15/24 03:00	11/15/24 11:28	7727-37-9		
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	<0.050	mg/L	0.050	1		11/15/24 03:57	14797-55-8		
Nitrate-Nitrite (as N)	<0.050	mg/L	0.050	1		11/15/24 03:57	7727-37-9		
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050	1		11/15/24 01:29	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	0.11	mg/L	0.10	1		11/19/24 13:39	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	1.1	mg/L	1.0	1		11/25/24 14:03	7440-44-0		
Total Organic Carbon	1.1	mg/L	1.0	1		11/25/24 14:03	7440-44-0		
Total Organic Carbon	1.1	mg/L	1.0	1		11/25/24 14:03	7440-44-0		
Total Organic Carbon	1.2	mg/L	1.0	1		11/25/24 14:03	7440-44-0		
Mean Total Organic Carbon	1.1	mg/L	1.0	1		11/25/24 14:03	7440-44-0		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: MW-9D		Lab ID: 70322186008	Collected: 11/13/24 13:10	Received: 11/14/24 08:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B	167000	ug/L	830	1		11/19/24 16:00		
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Melville						
Arsenic	<10.0	ug/L	10.0	1	11/19/24 10:10	11/19/24 16:00	7440-38-2	
Cadmium	<2.5	ug/L	2.5	1	11/19/24 10:10	11/19/24 16:00	7440-43-9	
Calcium	34000	ug/L	200	1	11/19/24 10:10	11/19/24 16:00	7440-70-2	
Iron	606	ug/L	100	1	11/19/24 10:10	11/19/24 16:00	7439-89-6	
Lead	<5.0	ug/L	5.0	1	11/19/24 10:10	11/19/24 16:00	7439-92-1	
Magnesium	19900	ug/L	200	1	11/19/24 10:10	11/19/24 16:00	7439-95-4	
Manganese	137	ug/L	10.0	1	11/19/24 10:10	11/19/24 16:00	7439-96-5	
Potassium	<5000	ug/L	5000	1	11/19/24 10:10	11/19/24 16:00	7440-09-7	
Sodium	118000	ug/L	5000	1	11/19/24 10:10	11/19/24 16:00	7440-23-5	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Melville						
Mercury	<0.20	ug/L	0.20	1	11/19/24 07:22	11/19/24 15:55	7439-97-6	
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville						
Turbidity	14.0	NTU	1.0	1		11/14/24 21:09		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	142	mg/L	1.0	1		11/27/24 13:12		
2510B Specific Conductance		Analytical Method: SM22 2510B Pace Analytical Services - Melville						
Specific Conductance	895	umhos/cm	1.0	1		11/18/24 13:55		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville						
Total Dissolved Solids	450	mg/L	50.0	1		11/19/24 14:38		
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville						
Chemical Oxygen Demand	31.4	mg/L	10.0	1	11/19/24 03:22	11/19/24 05:43		
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville						
BOD, 5 day	<2.0	mg/L	2.0	1	11/14/24 16:47	11/19/24 12:02		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: MW-9D		Lab ID: 70322186008		Collected: 11/13/24 13:10		Received: 11/14/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	0.61	mg/L	0.50	1		11/27/24 01:01	24959-67-9		
Chloride	129	mg/L	10.0	5		11/27/24 14:25	16887-00-6		
Sulfate	99.2	mg/L	5.0	1		11/27/24 01:01	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	0.56	mg/L	0.10	1	11/15/24 03:00	11/15/24 11:29	7727-37-9		
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	0.54	mg/L	0.050	1		11/15/24 03:58	14797-55-8		
Nitrate-Nitrite (as N)	0.54	mg/L	0.050	1		11/15/24 03:58	7727-37-9		
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050	1		11/15/24 01:31	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		11/19/24 13:40	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 14:14	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 14:14	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 14:14	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 14:14	7440-44-0		
Mean Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 14:14	7440-44-0		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: MW-17D		Lab ID: 70322186009	Collected: 11/13/24 11:45	Received: 11/14/24 08:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B	584000	ug/L	830	1		11/19/24 16:02		
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Melville						
Arsenic	<10.0	ug/L	10.0	1	11/19/24 10:10	11/19/24 16:02	7440-38-2	
Cadmium	<2.5	ug/L	2.5	1	11/19/24 10:10	11/19/24 16:02	7440-43-9	
Calcium	181000	ug/L	200	1	11/19/24 10:10	11/19/24 16:02	7440-70-2	
Iron	833	ug/L	100	1	11/19/24 10:10	11/19/24 16:02	7439-89-6	
Lead	<5.0	ug/L	5.0	1	11/19/24 10:10	11/19/24 16:02	7439-92-1	
Magnesium	32100	ug/L	200	1	11/19/24 10:10	11/19/24 16:02	7439-95-4	
Manganese	979	ug/L	10.0	1	11/19/24 10:10	11/19/24 16:02	7439-96-5	
Potassium	<5000	ug/L	5000	1	11/19/24 10:10	11/19/24 16:02	7440-09-7	
Sodium	33100	ug/L	5000	1	11/19/24 10:10	11/19/24 16:02	7440-23-5	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Melville						
Mercury	<0.20	ug/L	0.20	1	11/19/24 07:22	11/19/24 15:57	7439-97-6	
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville						
Turbidity	13.0	NTU	1.0	1		11/14/24 21:09		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	439	mg/L	1.0	1		11/27/24 13:31		
2510B Specific Conductance		Analytical Method: SM22 2510B Pace Analytical Services - Melville						
Specific Conductance	1220	umhos/cm	1.0	1		11/18/24 13:59		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville						
Total Dissolved Solids	694	mg/L	25.0	1		11/19/24 14:49		
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville						
Chemical Oxygen Demand	22.8	mg/L	10.0	1	11/19/24 03:22	11/19/24 05:43		
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville						
BOD, 5 day	<2.0	mg/L	2.0	1	11/14/24 16:51	11/19/24 12:05		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: MW-17D		Lab ID: 70322186009		Collected: 11/13/24 11:45		Received: 11/14/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<0.50	mg/L	0.50	1		11/27/24 01:18	24959-67-9		
Chloride	94.3	mg/L	2.0	1		11/27/24 01:18	16887-00-6		
Sulfate	65.9	mg/L	5.0	1		11/27/24 01:18	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	0.57	mg/L	0.10	1	11/15/24 03:00	11/15/24 11:32	7727-37-9		
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	0.10	mg/L	0.050	1		11/15/24 03:40	14797-55-8		
Nitrate-Nitrite (as N)	0.10	mg/L	0.050	1		11/15/24 03:40	7727-37-9		
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050	1		11/15/24 01:06	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	0.12	mg/L	0.10	1		11/19/24 13:42	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 14:49	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 14:49	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 14:49	7440-44-0		
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 14:49	7440-44-0		
Mean Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 14:49	7440-44-0		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: MW-17S		Lab ID: 70322186010		Collected: 11/13/24 11:37		Received: 11/14/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	524000	ug/L	830	1		11/19/24 16:03			
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Arsenic	188	ug/L	10.0	1	11/19/24 10:10	11/19/24 16:03	7440-38-2		
Cadmium	<2.5	ug/L	2.5	1	11/19/24 10:10	11/19/24 16:03	7440-43-9		
Calcium	155000	ug/L	200	1	11/19/24 10:10	11/19/24 16:03	7440-70-2		
Iron	34000	ug/L	100	1	11/19/24 10:10	11/19/24 16:03	7439-89-6		
Lead	<5.0	ug/L	5.0	1	11/19/24 10:10	11/19/24 16:03	7439-92-1		
Magnesium	33200	ug/L	200	1	11/19/24 10:10	11/19/24 16:03	7439-95-4		
Manganese	420	ug/L	10.0	1	11/19/24 10:10	11/19/24 16:03	7439-96-5		
Potassium	<5000	ug/L	5000	1	11/19/24 10:10	11/19/24 16:03	7440-09-7		
Sodium	22900	ug/L	5000	1	11/19/24 10:10	11/19/24 16:03	7440-23-5		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Melville							
Mercury	<0.20	ug/L	0.20	1	11/19/24 07:22	11/19/24 15:58	7439-97-6		
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville							
Turbidity	600	NTU	50.0	50		11/14/24 21:11			
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	396	mg/L	1.0	1		11/27/24 13:48			
2510B Specific Conductance		Analytical Method: SM22 2510B Pace Analytical Services - Melville							
Specific Conductance	1120	umhos/cm	1.0	1		11/18/24 14:00			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	588	mg/L	50.0	1		11/19/24 14:49			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	37.8	mg/L	10.0	1	11/19/24 03:22	11/19/24 05:43			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<2.0	mg/L	2.0	1	11/14/24 16:55	11/19/24 12:07			

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: MW-17S		Lab ID: 70322186010		Collected: 11/13/24 11:37		Received: 11/14/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<0.50	mg/L	0.50	1		11/27/24 01:36	24959-67-9		
Chloride	120	mg/L	10.0	5		11/27/24 14:43	16887-00-6		
Sulfate	16.0	mg/L	5.0	1		11/27/24 01:36	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	3.5	mg/L	0.50	1	11/15/24 03:00	11/15/24 11:33	7727-37-9		
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	0.073	mg/L	0.050	1		11/15/24 03:37	14797-55-8		
Nitrate-Nitrite (as N)	0.084	mg/L	0.050	1		11/15/24 03:37	7727-37-9	M1	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050	1		11/15/24 01:03	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	0.81	mg/L	0.50	5		11/19/24 13:43	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	4.6	mg/L	1.0	1		11/25/24 15:00	7440-44-0		
Total Organic Carbon	4.8	mg/L	1.0	1		11/25/24 15:00	7440-44-0		
Total Organic Carbon	4.9	mg/L	1.0	1		11/25/24 15:00	7440-44-0		
Total Organic Carbon	4.8	mg/L	1.0	1		11/25/24 15:00	7440-44-0		
Mean Total Organic Carbon	4.8	mg/L	1.0	1		11/25/24 15:00	7440-44-0		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: MW-27D		Lab ID: 70322186011		Collected: 11/13/24 12:45		Received: 11/14/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	98700	ug/L	830	1		11/19/24 16:05			
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Arsenic	<10.0	ug/L	10.0	1	11/19/24 10:10	11/19/24 16:05	7440-38-2		
Cadmium	<2.5	ug/L	2.5	1	11/19/24 10:10	11/19/24 16:05	7440-43-9		
Calcium	22700	ug/L	200	1	11/19/24 10:10	11/19/24 16:05	7440-70-2		
Iron	850	ug/L	100	1	11/19/24 10:10	11/19/24 16:05	7439-89-6		
Lead	<5.0	ug/L	5.0	1	11/19/24 10:10	11/19/24 16:05	7439-92-1		
Magnesium	10200	ug/L	200	1	11/19/24 10:10	11/19/24 16:05	7439-95-4		
Manganese	167	ug/L	10.0	1	11/19/24 10:10	11/19/24 16:05	7439-96-5		
Potassium	<5000	ug/L	5000	1	11/19/24 10:10	11/19/24 16:05	7440-09-7		
Sodium	48800	ug/L	5000	1	11/19/24 10:10	11/19/24 16:05	7440-23-5		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Melville							
Mercury	<0.20	ug/L	0.20	1	11/19/24 07:22	11/19/24 16:00	7439-97-6		
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville							
Turbidity	8.7	NTU	1.0	1		11/14/24 21:13			
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	164	mg/L	1.0	1		11/27/24 13:59			
2510B Specific Conductance		Analytical Method: SM22 2510B Pace Analytical Services - Melville							
Specific Conductance	393	umhos/cm	1.0	1		11/18/24 14:02			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	208	mg/L	25.0	1		11/19/24 14:50			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	18.5	mg/L	10.0	1	11/19/24 03:22	11/19/24 05:44			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<2.0	mg/L	2.0	1	11/14/24 17:00	11/19/24 12:09			

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: MW-27D		Lab ID: 70322186011	Collected: 11/13/24 12:45		Received: 11/14/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville						
Bromide	<0.50	mg/L	0.50	1		11/27/24 01:53	24959-67-9	
Chloride	<2.0	mg/L	2.0	1		11/27/24 01:53	16887-00-6	
Sulfate	27.7	mg/L	5.0	1		11/27/24 01:53	14808-79-8	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville						
Nitrogen, Kjeldahl, Total	0.42	mg/L	0.10	1	11/15/24 03:00	11/15/24 11:34	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrate as N	0.083	mg/L	0.050	1		11/15/24 03:52	14797-55-8	
Nitrate-Nitrite (as N)	0.088	mg/L	0.050	1		11/15/24 03:52	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrite as N	<0.050	mg/L	0.050	1		11/15/24 01:21	14797-65-0	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville						
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		11/19/24 13:44	7664-41-7	
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville						
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 15:11	7440-44-0	
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 15:11	7440-44-0	
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 15:11	7440-44-0	
Total Organic Carbon	2.2	mg/L	1.0	1		11/25/24 15:11	7440-44-0	
Mean Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 15:11	7440-44-0	

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: MW-27S		Lab ID: 70322186012		Collected: 11/13/24 12:35		Received: 11/14/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	543000	ug/L	830	1		11/19/24 16:10			
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Arsenic	<10.0	ug/L	10.0	1	11/19/24 10:10	11/19/24 16:10	7440-38-2		
Cadmium	<2.5	ug/L	2.5	1	11/19/24 10:10	11/19/24 16:10	7440-43-9		
Calcium	170000	ug/L	200	1	11/19/24 10:10	11/19/24 16:10	7440-70-2		
Iron	5370	ug/L	100	1	11/19/24 10:10	11/19/24 16:10	7439-89-6		
Lead	<5.0	ug/L	5.0	1	11/19/24 10:10	11/19/24 16:10	7439-92-1		
Magnesium	28700	ug/L	200	1	11/19/24 10:10	11/19/24 16:10	7439-95-4		
Manganese	2570	ug/L	10.0	1	11/19/24 10:10	11/19/24 16:10	7439-96-5		
Potassium	<5000	ug/L	5000	1	11/19/24 10:10	11/19/24 16:10	7440-09-7		
Sodium	68800	ug/L	5000	1	11/19/24 10:10	11/19/24 16:10	7440-23-5		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Melville							
Mercury	<0.20	ug/L	0.20	1	11/19/24 07:22	11/19/24 16:01	7439-97-6		
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville							
Turbidity	28.0	NTU	1.0	1		11/14/24 21:14			
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	493	mg/L	1.0	1		11/27/24 14:20			
2510B Specific Conductance		Analytical Method: SM22 2510B Pace Analytical Services - Melville							
Specific Conductance	1280	umhos/cm	1.0	1		11/18/24 14:04			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	680	mg/L	50.0	1		11/19/24 14:50			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	57.2	mg/L	10.0	1	11/19/24 03:22	11/19/24 05:44			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<2.0	mg/L	2.0	1	11/14/24 17:04	11/19/24 12:22			

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: MW-27S		Lab ID: 70322186012		Collected: 11/13/24 12:35		Received: 11/14/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<0.50	mg/L	0.50	1		11/27/24 02:11	24959-67-9		
Chloride	120	mg/L	10.0	5		11/27/24 15:00	16887-00-6		
Sulfate	17.8	mg/L	5.0	1		11/27/24 02:11	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	2.0	mg/L	0.10	1	11/15/24 03:00	11/15/24 11:34	7727-37-9		
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	<0.050	mg/L	0.050	1		11/15/24 03:50	14797-55-8		
Nitrate-Nitrite (as N)	<0.050	mg/L	0.050	1		11/15/24 03:50	7727-37-9		
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050	1		11/15/24 01:18	14797-65-0		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	0.81	mg/L	0.10	1		11/19/24 13:45	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	4.4	mg/L	1.0	1		11/25/24 15:22	7440-44-0		
Total Organic Carbon	3.4	mg/L	1.0	1		11/25/24 15:22	7440-44-0		
Total Organic Carbon	3.4	mg/L	1.0	1		11/25/24 15:22	7440-44-0		
Total Organic Carbon	3.3	mg/L	1.0	1		11/25/24 15:22	7440-44-0		
Mean Total Organic Carbon	3.6	mg/L	1.0	1		11/25/24 15:22	7440-44-0		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: FB-01		Lab ID: 70322186013		Collected: 11/13/24 12:25		Received: 11/14/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	<830	ug/L	830	1		11/19/24 16:11			
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Arsenic	<10.0	ug/L	10.0	1	11/19/24 10:10	11/19/24 16:11	7440-38-2		
Cadmium	<2.5	ug/L	2.5	1	11/19/24 10:10	11/19/24 16:11	7440-43-9		
Calcium	<200	ug/L	200	1	11/19/24 10:10	11/19/24 16:11	7440-70-2		
Iron	<100	ug/L	100	1	11/19/24 10:10	11/19/24 16:11	7439-89-6		
Lead	<5.0	ug/L	5.0	1	11/19/24 10:10	11/19/24 16:11	7439-92-1		
Magnesium	<200	ug/L	200	1	11/19/24 10:10	11/19/24 16:11	7439-95-4		
Manganese	<10.0	ug/L	10.0	1	11/19/24 10:10	11/19/24 16:11	7439-96-5		
Potassium	<5000	ug/L	5000	1	11/19/24 10:10	11/19/24 16:11	7440-09-7		
Sodium	<5000	ug/L	5000	1	11/19/24 10:10	11/19/24 16:11	7440-23-5		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Melville							
Mercury	<0.20	ug/L	0.20	1	11/19/24 07:22	11/19/24 16:07	7439-97-6		
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville							
Turbidity	<1.0	NTU	1.0	1		11/14/24 21:16			
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	<1.0	mg/L	1.0	1		11/27/24 14:24			
2510B Specific Conductance		Analytical Method: SM22 2510B Pace Analytical Services - Melville							
Specific Conductance	1.7	umhos/cm	1.0	1		11/18/24 14:06			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	<25.0	mg/L	25.0	1		11/19/24 15:27			
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	<10.0	mg/L	10.0	1	11/19/24 03:22	11/19/24 05:45			
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<2.0	mg/L	2.0	1	11/14/24 17:07	11/19/24 12:24			

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Sample: FB-01		Lab ID: 70322186013	Collected: 11/13/24 12:25		Received: 11/14/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville						
Bromide	<0.50	mg/L	0.50	1		11/27/24 02:28	24959-67-9	
Chloride	<2.0	mg/L	2.0	1		11/27/24 02:28	16887-00-6	
Sulfate	<5.0	mg/L	5.0	1		11/27/24 02:28	14808-79-8	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville						
Nitrogen, Kjeldahl, Total	0.31	mg/L	0.10	1	11/15/24 03:00	11/15/24 11:37	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrate as N	<0.050	mg/L	0.050	1		11/15/24 03:46	14797-55-8	
Nitrate-Nitrite (as N)	<0.050	mg/L	0.050	1		11/15/24 03:46	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrite as N	<0.050	mg/L	0.050	1		11/15/24 01:17	14797-65-0	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville						
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		11/19/24 13:46	7664-41-7	
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville						
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 15:33	7440-44-0	
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 15:33	7440-44-0	
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 15:33	7440-44-0	
Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 15:33	7440-44-0	
Mean Total Organic Carbon	<1.0	mg/L	1.0	1		11/25/24 15:33	7440-44-0	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

QC Batch:	371488	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70322186001, 70322186002, 70322186003, 70322186004, 70322186005, 70322186006, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012, 70322186013		

METHOD BLANK:	1943291	Matrix:	Water
Associated Lab Samples:	70322186001, 70322186002, 70322186003, 70322186004, 70322186005, 70322186006, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012, 70322186013		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	11/19/24 15:18	

LABORATORY CONTROL SAMPLE: 1943292						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	0.98	98	80-120	

MATRIX SPIKE SAMPLE:		1943293					
		70322186002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Mercury	ug/L	<0.20	1	1.2	106	75-125	

SAMPLE DUPLICATE: 1943294

Parameter	Units	70322186002 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

QC Batch:	371523	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3005A	Analysis Description:	6010D MET Water
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70322186001, 70322186002, 70322186003, 70322186004, 70322186005, 70322186006, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012, 70322186013		

METHOD BLANK:	1943435	Matrix:	Water
Associated Lab Samples:	70322186001, 70322186002, 70322186003, 70322186004, 70322186005, 70322186006, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012, 70322186013		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<10.0	10.0	11/19/24 15:27	
Cadmium	ug/L	<2.5	2.5	11/19/24 15:27	
Calcium	ug/L	<200	200	11/19/24 15:27	
Iron	ug/L	<100	100	11/19/24 15:27	
Lead	ug/L	<5.0	5.0	11/19/24 15:27	
Magnesium	ug/L	<200	200	11/19/24 15:27	
Manganese	ug/L	<10.0	10.0	11/19/24 15:27	
Potassium	ug/L	<5000	5000	11/19/24 15:27	
Sodium	ug/L	<5000	5000	11/19/24 15:27	

LABORATORY CONTROL SAMPLE: 1943436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	486	97	80-120	
Cadmium	ug/L	500	504	101	80-120	
Calcium	ug/L	25000	25200	101	80-120	
Iron	ug/L	12500	12700	102	80-120	
Lead	ug/L	500	504	101	80-120	
Magnesium	ug/L	25000	24900	100	80-120	
Manganese	ug/L	500	504	101	80-120	
Potassium	ug/L	25000	25700	103	80-120	
Sodium	ug/L	25000	26400	106	80-120	

MATRIX SPIKE SAMPLE: 1943438

Parameter	Units	70322186002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	<10.0	500	513	103	75-125	
Cadmium	ug/L	<2.5	500	533	107	75-125	
Calcium	ug/L	35500	12500	48700	106	75-125	
Iron	ug/L	314	5000	5580	105	75-125	
Lead	ug/L	<5.0	500	536	107	75-125	
Magnesium	ug/L	8960	12500	21500	100	75-125	
Manganese	ug/L	37.3	500	569	106	75-125	
Potassium	ug/L	<5000	12500	17700	107	75-125	
Sodium	ug/L	7910	12500	20600	102	75-125	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

SAMPLE DUPLICATE: 1943437

Parameter	Units	70322186002 Result	Dup Result	RPD	Qualifiers
Arsenic	ug/L	<10.0	<10.0		
Cadmium	ug/L	<2.5	<2.5		
Calcium	ug/L	35500	35300	1	
Iron	ug/L	314	312	1	
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	8960	8890	1	
Manganese	ug/L	37.3	37.3	0	
Potassium	ug/L	<5000	<5000		
Sodium	ug/L	7910	7640	3	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

QC Batch:	370953	Analysis Method:	EPA 180.1
QC Batch Method:	EPA 180.1	Analysis Description:	180.1 Turbidity
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70322186001, 70322186002, 70322186003, 70322186004, 70322186005, 70322186006, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012, 70322186013		

METHOD BLANK:	1939909	Matrix:	Water
Associated Lab Samples:	70322186001, 70322186002, 70322186003, 70322186004, 70322186005, 70322186006, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012, 70322186013		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Turbidity	NTU	<1.0	1.0	11/14/24 20:52	

LABORATORY CONTROL SAMPLE: 1939910						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	10	9.5	95	90-110	

SAMPLE DUPLICATE: 1939911

Parameter	Units	70322186002 Result	Dup Result	RPD	Qualifiers
Turbidity	NTU	20.0	20.0	0	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

QC Batch:	372965	Analysis Method:	SM22 2320B
QC Batch Method:	SM22 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70322186001, 70322186002, 70322186003, 70322186004, 70322186005, 70322186006, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012, 70322186013		

METHOD BLANK:	1952362	Matrix:	Water
Associated Lab Samples:	70322186001, 70322186002, 70322186003, 70322186004, 70322186005, 70322186006, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012, 70322186013		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	<1.0	1.0	11/27/24 09:14	

LABORATORY CONTROL SAMPLE:		1952363				
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ma/L	25	23.7	95	85-115	

MATRIX SPIKE SAMPLE:	1952365						
		70322186002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	122	50	165	85	75-125	

SAMPLE DUPLICATE: 1952364					
Parameter	Units	70322186002 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	ma/L	122	119	3	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

QC Batch:	371289	Analysis Method:	SM22 2510B
QC Batch Method:	SM22 2510B	Analysis Description:	2510B Specific Conductance
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70322186001, 70322186002, 70322186003, 70322186004, 70322186005, 70322186006, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012, 70322186013		

METHOD BLANK:	1942239	Matrix:	Water
Associated Lab Samples:	70322186001, 70322186002, 70322186003, 70322186004, 70322186005, 70322186006, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012, 70322186013		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	<1.0	1.0	11/18/24 13:29	

LABORATORY CONTROL SAMPLE:	1942240					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	718	652	91	85-115	

SAMPLE DUPLICATE: 1942241

Parameter	Units	70322186002 Result	Dup Result	RPD	Qualifiers
Specific Conductance	umhos/cm	275	283	3	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

QC Batch:	371552	Analysis Method:	SM22 2540C
QC Batch Method:	SM22 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70322186001, 70322186002, 70322186003, 70322186004, 70322186005, 70322186006, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012		

METHOD BLANK:	1943606	Matrix:	Water
Associated Lab Samples:	70322186001, 70322186002, 70322186003, 70322186004, 70322186005, 70322186006, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	11/19/24 14:15	

LABORATORY CONTROL SAMPLE:	1943607					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	500	100	85-115	

MATRIX SPIKE SAMPLE:		1943609					
		70322023001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Total Dissolved Solids	mg/L	325	300	619	98	75-125	

MATRIX SPIKE SAMPLE:	1943611						
		70322186002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Total Dissolved Solids	ma/L	146	300	446	100	75-125	

SAMPLE DUPLICATE: 1943608					
Parameter	Units	70322023001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	325	324	0	

SAMPLE DUPLICATE: 1943610					
Parameter	Units	70322186002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	146	149	2	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

QC Batch:	371553	Analysis Method:	SM22 2540C
QC Batch Method:	SM22 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70322186013

METHOD BLANK: 1943616 Matrix: Water

Associated Lab Samples: 70322186013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	11/19/24 15:26	

LABORATORY CONTROL SAMPLE: 1943617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	500	100	85-115	

MATRIX SPIKE SAMPLE: 1943619

Parameter	Units	70322304002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	181	300	481	100	75-125	

SAMPLE DUPLICATE: 1943618

Parameter	Units	70322304002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	181	186	3	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

QC Batch:	371463	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70322186001, 70322186002, 70322186003, 70322186004, 70322186005, 70322186006, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012, 70322186013		

METHOD BLANK:	1943218	Matrix:	Water
Associated Lab Samples:	70322186001, 70322186002, 70322186003, 70322186004, 70322186005, 70322186006, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012, 70322186013		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<10.0	10.0	11/19/24 05:39	

LABORATORY CONTROL SAMPLE:	1943219					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	515	103	90-110	

MATRIX SPIKE SAMPLE:		1943220						
			70322186002	Spike	MS	MS	% Rec	
Parameter		Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chemical	Oxygen Demand	mg/L	29.2	1000	1020	99	90-110	

MATRIX SPIKE SAMPLE:	1943222						
		70322186012	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chemical Oxygen Demand	mg/L	57.2	1000	1050	99	90-110	

SAMPLE DUPLICATE: 1943221					
Parameter	Units	70322186002 Result	Dup Result	RPD	Qualifiers
Chemical Oxygen Demand	mg/L	29.2	24.9	16	

SAMPLE DUPLICATE: 1943223					
Parameter	Units	70322186012 Result	Dup Result	RPD	Qualifiers
Chemical Oxygen Demand	mg/L	57.2	50.7	12	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

QC Batch:	370933	Analysis Method:	SM22 5210B
QC Batch Method:	SM22 5210B	Analysis Description:	5210B BOD, 5 day
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70322186001, 70322186002, 70322186003, 70322186004, 70322186005, 70322186006, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012, 70322186013		

METHOD BLANK:	1939835	Matrix:	Water
Associated Lab Samples:	70322186001, 70322186002, 70322186003, 70322186004, 70322186005, 70322186006, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012, 70322186013		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	<1.0	1.0	11/19/24 11:08	

LABORATORY CONTROL SAMPLE:	1939836					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	181	91	84.5-115.4	

SAMPLE DUPLICATE: 1939837					
		70322186002	Dup		
Parameter	Units	Result	Result	RPD	Qualifiers
BOD, 5 day	mg/L	<2.0	<2.0		

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

QC Batch:	372801	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70322186001, 70322186002, 70322186003, 70322186004, 70322186005, 70322186006, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012, 70322186013		

METHOD BLANK:	1951078	Matrix:	Water
Associated Lab Samples:	70322186001, 70322186002, 70322186003, 70322186004, 70322186005, 70322186006, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012, 70322186013		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	<0.50	0.50	11/26/24 20:21	
Chloride	mg/L	<2.0	2.0	11/26/24 20:21	
Sulfate	mg/L	<5.0	5.0	11/26/24 20:21	

LABORATORY CONTROL SAMPLE:	1951079					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	1	1.0	101	90-110	
Chloride	mg/L	10	10.4	104	90-110	
Sulfate	mg/L	10	10.4	104	90-110	

MATRIX SPIKE SAMPLE:	1951080						
		70322186002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromide	mg/L	<0.50	1	0.76	76	90-110	M1
Chloride	mg/L	2.9	10	13.1	102	90-110	
Sulfate	mg/L	18.8	10	28.3	95	90-110	

MATRIX SPIKE SAMPLE:	1951087						
		70322596001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromide	mg/L	<0.50	1	0.84	84	90-110	M1
Chloride	mg/L	19.5	10	29.7	102	90-110	
Sulfate	mg/L	26.4	10	36.0	96	90-110	

SAMPLE DUPLICATE: 1951081

Parameter	Units	70322186002 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	<0.50	<0.50		
Chloride	mg/L	2.9	2.9	0	
Sulfate	mg/L	18.8	18.6	1	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

SAMPLE DUPLICATE: 1951088

Parameter	Units	70322596001 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	<0.50	<0.50		
Chloride	mg/L	19.5	19.5	0	
Sulfate	mg/L	26.4	26.5	0	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

QC Batch:	370978	Analysis Method:	EPA 351.2
QC Batch Method:	EPA 351.2	Analysis Description:	351.2 TKN
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70322186001, 70322186002, 70322186003, 70322186004, 70322186005, 70322186006, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012, 70322186013		

METHOD BLANK:	1939993	Matrix:	Water
Associated Lab Samples:	70322186001, 70322186002, 70322186003, 70322186004, 70322186005, 70322186006, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012, 70322186013		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.094	0.094	11/15/24 11:17	

LABORATORY CONTROL SAMPLE:	1939994					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	3.7	92	90-110	

MATRIX SPIKE SAMPLE:	1939995						
		70322186002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.45	4	4.8	110	90-110	

MATRIX SPIKE SAMPLE:		1939997					
		70322186012	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	2.0	4	5.6	91	90-110	

SAMPLE DUPLICATE: 1939996					
		70322186002	Dup		
Parameter	Units	Result	Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.45	0.43	4	

SAMPLE DUPLICATE: 1939998					
		70322186012	Dup		
Parameter	Units	Result	Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	2.0	2.0	0	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

QC Batch:	370963	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70322186001, 70322186004, 70322186005, 70322186006, 70322186010

METHOD BLANK: 1939934 Matrix: Water
Associated Lab Samples: 70322186001, 70322186004, 70322186005, 70322186006, 70322186010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.027	0.027	11/15/24 00:28	

LABORATORY CONTROL SAMPLE: 1939935

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 1939936

Parameter	Units	70322013001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.49	93	90-110	H1

MATRIX SPIKE SAMPLE: 1939938

Parameter	Units	70322117001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	0.040J	0.5	0.44	79	90-110	M1

SAMPLE DUPLICATE: 1939937

Parameter	Units	70322013001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	0.064		H1

SAMPLE DUPLICATE: 1939939

Parameter	Units	70322117001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	0.040J	<0.050		

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

QC Batch:	370964	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70322186002, 70322186003, 70322186007, 70322186008, 70322186009, 70322186011, 70322186012, 70322186013		

METHOD BLANK:	1939940	Matrix:	Water
Associated Lab Samples:	70322186002, 70322186003, 70322186007, 70322186008, 70322186009, 70322186011, 70322186012, 70322186013		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.027	0.027	11/15/24 01:04	

LABORATORY CONTROL SAMPLE:	1939941					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.0	100	90-110	

MATRIX SPIKE SAMPLE:	1939942						
		70322186009	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.45	90	90-110	

MATRIX SPIKE SAMPLE:	1939950						
		70322186002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.45	90	90-110	

SAMPLE DUPLICATE:	1939943				
Parameter	Units	70322186009 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE:	1939951				
Parameter	Units	70322186002 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

QC Batch: 370966

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate, Unpres.

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70322186001, 70322186004, 70322186005, 70322186006

METHOD BLANK: 1939952

Matrix: Water

Associated Lab Samples: 70322186001, 70322186004, 70322186005, 70322186006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.037	0.037	11/15/24 02:54	

LABORATORY CONTROL SAMPLE: 1939953

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	0.98	98	90-110	

MATRIX SPIKE SAMPLE: 1939954

Parameter	Units	70322024001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.5	0.41	76	90-110	M1

MATRIX SPIKE SAMPLE: 1939956

Parameter	Units	70322053003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	2.0	2.5	4.2	88	90-110	M1

SAMPLE DUPLICATE: 1939955

Parameter	Units	70322024001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1939957

Parameter	Units	70322053003 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	2.0	1.9	4	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

QC Batch:	370969	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate, Unpres.
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70322186002, 70322186003, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012, 70322186013		

METHOD BLANK:	1939960	Matrix:	Water
Associated Lab Samples:	70322186002, 70322186003, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012, 70322186013		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.037	0.037	11/15/24 03:31	

LABORATORY CONTROL SAMPLE:	1939961					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	0.95	95	90-110	

MATRIX SPIKE SAMPLE:	1939962						
		70322186010	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.084	0.5	0.49	82	90-110	M1

MATRIX SPIKE SAMPLE:	1939964						
		70322186002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Nitrate-Nitrite (as N)	ma/L	0.091	0.5	0.54	90	90-110	

SAMPLE DUPLICATE: 1939963					
		70322186010	Dup		
Parameter	Units	Result	Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.084	0.070	18	

SAMPLE DUPLICATE: 1939965					
		70322186002	Dup		
Parameter	Units	Result	Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.091	0.090	1	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

QC Batch: 371570

Analysis Method: SM22 4500 NH3 H

QC Batch Method: SM22 4500 NH3 H

Analysis Description: 4500 Ammonia

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70322186001

METHOD BLANK: 1943756

Matrix: Water

Associated Lab Samples: 70322186001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.050	0.050	11/19/24 12:52	

LABORATORY CONTROL SAMPLE: 1943757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	104	90-110	

MATRIX SPIKE SAMPLE: 1943758

Parameter	Units	70322279001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	1	1.2	122	75-125	

SAMPLE DUPLICATE: 1943759

Parameter	Units	70322279001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	<0.10		

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

QC Batch:	371573	Analysis Method:	SM22 4500 NH3 H
QC Batch Method:	SM22 4500 NH3 H	Analysis Description:	4500 Ammonia
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70322186002, 70322186003, 70322186004, 70322186005, 70322186006, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012, 70322186013		

METHOD BLANK:	1943765	Matrix:	Water
Associated Lab Samples:	70322186002, 70322186003, 70322186004, 70322186005, 70322186006, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012, 70322186013		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.050	0.050	11/19/24 13:26	

LABORATORY CONTROL SAMPLE:	1943766					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	103	90-110	

MATRIX SPIKE SAMPLE:	1943767						
		70322186002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	1	1.1	112	75-125	

SAMPLE DUPLICATE: 1943768					
Parameter	Units	70322186002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	<0.10		

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

QC Batch: 371268

Analysis Method: EPA 9060A

QC Batch Method: EPA 9060A

Analysis Description: 9060 TOC

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70322186001

METHOD BLANK: 1942141

Matrix: Water

Associated Lab Samples: 70322186001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<0.50	0.50	11/18/24 15:37	
Total Organic Carbon	mg/L	<0.50	0.50	11/18/24 15:37	
Total Organic Carbon	mg/L	<0.50	0.50	11/18/24 15:37	
Total Organic Carbon	mg/L	<0.50	0.50	11/18/24 15:37	
Total Organic Carbon	mg/L	<0.50	0.50	11/18/24 15:37	

LABORATORY CONTROL SAMPLE: 1942142

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	10	10.0	100	85-115	
Total Organic Carbon	mg/L	10	9.9	99	85-115	
Total Organic Carbon	mg/L	10	10.1	101	85-115	
Total Organic Carbon	mg/L	10	10.1	101	85-115	
Total Organic Carbon	mg/L	10	10.1	101	85-115	

MATRIX SPIKE SAMPLE: 1942143

Parameter	Units	70322287001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	<1.0	10	10	99	75-125	
Total Organic Carbon	mg/L	<1.0	10	10	99	75-125	
Total Organic Carbon	mg/L	<1.0	10	10.0	100	75-125	
Total Organic Carbon	mg/L	<1.0	10	9.8	98	75-125	
Total Organic Carbon	mg/L	<1.0	10	10.0	99	75-125	

SAMPLE DUPLICATE: 1942144

Parameter	Units	70322287001 Result	Dup Result	RPD	Qualifiers
Mean Total Organic Carbon	mg/L	<1.0	<1.0		
Total Organic Carbon	mg/L	<1.0	<1.0		
Total Organic Carbon	mg/L	<1.0	<1.0		
Total Organic Carbon	mg/L	<1.0	<1.0		
Total Organic Carbon	mg/L	<1.0	<1.0		

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

QC Batch:	372515	Analysis Method:	EPA 9060A
QC Batch Method:	EPA 9060A	Analysis Description:	9060 TOC
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70322186002, 70322186003, 70322186004, 70322186005, 70322186006, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012, 70322186013		

METHOD BLANK:	1949327	Matrix:	Water
Associated Lab Samples:	70322186002, 70322186003, 70322186004, 70322186005, 70322186006, 70322186007, 70322186008, 70322186009, 70322186010, 70322186011, 70322186012, 70322186013		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<0.50	0.50	11/25/24 12:11	
Total Organic Carbon	mg/L	<0.50	0.50	11/25/24 12:11	
Total Organic Carbon	mg/L	<0.50	0.50	11/25/24 12:11	
Total Organic Carbon	mg/L	<0.50	0.50	11/25/24 12:11	
Total Organic Carbon	mg/L	<0.50	0.50	11/25/24 12:11	

LABORATORY CONTROL SAMPLE:		1949328				
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	10	10.2	102	85-115	
Total Organic Carbon	mg/L	10	10.1	101	85-115	
Total Organic Carbon	mg/L	10	10.3	103	85-115	
Total Organic Carbon	mg/L	10	10.1	101	85-115	
Total Organic Carbon	mg/L	10	10.2	102	85-115	

MATRIX SPIKE SAMPLE:		1949330					
Parameter	Units	70322186002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	<1.0	10	10.8	101	75-125	
Total Organic Carbon	mg/L	<1.0	10	11.0	104	75-125	
Total Organic Carbon	mg/L	<1.0	10	10.6	99	75-125	
Total Organic Carbon	mg/L	<1.0	10	10.7	101	75-125	
Total Organic Carbon	mg/L	1.0	10	11.0	99	75-125	

SAMPLE DUPLICATE: 1949329					
Parameter	Units	70322186002 Result	Dup Result	RPD	Qualifiers
Mean Total Organic Carbon	mg/L	<1.0	<1.0		
Total Organic Carbon	mg/L	<1.0	<1.0		
Total Organic Carbon	mg/L	1.0	<1.0		
Total Organic Carbon	mg/L	<1.0	<1.0		
Total Organic Carbon	mg/L	<1.0	<1.0		

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QUALIFIERS

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 371549

- [1] The post digestion spike for sample 70322186002 (PDS 1943568) did not meet acceptance criteria for Silver and Calcium.
- [2] The serial dilution for sample 70322186002 (SD 1943569) did not meet acceptance criteria for Silver, Aluminum, Antimony, Vanadium and Zinc.

ANALYTE QUALIFIERS

H1 Analysis conducted outside the EPA method holding time.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70322186001	MW-3A	SM22 2340B	371670		
70322186002	MW-5D MS/MSD	SM22 2340B	371670		
70322186003	MW-5S	SM22 2340B	371670		
70322186004	MW-6DA	SM22 2340B	371670		
70322186005	MW-6S	SM22 2340B	371670		
70322186006	MW-7S	SM22 2340B	371670		
70322186007	MW-9S	SM22 2340B	371670		
70322186008	MW-9D	SM22 2340B	371670		
70322186009	MW-17D	SM22 2340B	371670		
70322186010	MW-17S	SM22 2340B	371670		
70322186011	MW-27D	SM22 2340B	371670		
70322186012	MW-27S	SM22 2340B	371670		
70322186013	FB-01	SM22 2340B	371670		
70322186001	MW-3A	EPA 3005A	371523	EPA 6010D	371549
70322186002	MW-5D MS/MSD	EPA 3005A	371523	EPA 6010D	371549
70322186003	MW-5S	EPA 3005A	371523	EPA 6010D	371549
70322186004	MW-6DA	EPA 3005A	371523	EPA 6010D	371549
70322186005	MW-6S	EPA 3005A	371523	EPA 6010D	371549
70322186006	MW-7S	EPA 3005A	371523	EPA 6010D	371549
70322186007	MW-9S	EPA 3005A	371523	EPA 6010D	371549
70322186008	MW-9D	EPA 3005A	371523	EPA 6010D	371549
70322186009	MW-17D	EPA 3005A	371523	EPA 6010D	371549
70322186010	MW-17S	EPA 3005A	371523	EPA 6010D	371549
70322186011	MW-27D	EPA 3005A	371523	EPA 6010D	371549
70322186012	MW-27S	EPA 3005A	371523	EPA 6010D	371549
70322186013	FB-01	EPA 3005A	371523	EPA 6010D	371549
70322186001	MW-3A	EPA 7470A	371488	EPA 7470A	371537
70322186002	MW-5D MS/MSD	EPA 7470A	371488	EPA 7470A	371537
70322186003	MW-5S	EPA 7470A	371488	EPA 7470A	371537
70322186004	MW-6DA	EPA 7470A	371488	EPA 7470A	371537
70322186005	MW-6S	EPA 7470A	371488	EPA 7470A	371537
70322186006	MW-7S	EPA 7470A	371488	EPA 7470A	371537
70322186007	MW-9S	EPA 7470A	371488	EPA 7470A	371537
70322186008	MW-9D	EPA 7470A	371488	EPA 7470A	371537
70322186009	MW-17D	EPA 7470A	371488	EPA 7470A	371537
70322186010	MW-17S	EPA 7470A	371488	EPA 7470A	371537
70322186011	MW-27D	EPA 7470A	371488	EPA 7470A	371537
70322186012	MW-27S	EPA 7470A	371488	EPA 7470A	371537
70322186013	FB-01	EPA 7470A	371488	EPA 7470A	371537
70322186001	MW-3A	EPA 180.1	370953		
70322186002	MW-5D MS/MSD	EPA 180.1	370953		
70322186003	MW-5S	EPA 180.1	370953		
70322186004	MW-6DA	EPA 180.1	370953		
70322186005	MW-6S	EPA 180.1	370953		
70322186006	MW-7S	EPA 180.1	370953		
70322186007	MW-9S	EPA 180.1	370953		
70322186008	MW-9D	EPA 180.1	370953		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70322186009	MW-17D	EPA 180.1	370953		
70322186010	MW-17S	EPA 180.1	370953		
70322186011	MW-27D	EPA 180.1	370953		
70322186012	MW-27S	EPA 180.1	370953		
70322186013	FB-01	EPA 180.1	370953		
70322186001	MW-3A	SM22 2320B	372965		
70322186002	MW-5D MS/MSD	SM22 2320B	372965		
70322186003	MW-5S	SM22 2320B	372965		
70322186004	MW-6DA	SM22 2320B	372965		
70322186005	MW-6S	SM22 2320B	372965		
70322186006	MW-7S	SM22 2320B	372965		
70322186007	MW-9S	SM22 2320B	372965		
70322186008	MW-9D	SM22 2320B	372965		
70322186009	MW-17D	SM22 2320B	372965		
70322186010	MW-17S	SM22 2320B	372965		
70322186011	MW-27D	SM22 2320B	372965		
70322186012	MW-27S	SM22 2320B	372965		
70322186013	FB-01	SM22 2320B	372965		
70322186001	MW-3A	SM22 2510B	371289		
70322186002	MW-5D MS/MSD	SM22 2510B	371289		
70322186003	MW-5S	SM22 2510B	371289		
70322186004	MW-6DA	SM22 2510B	371289		
70322186005	MW-6S	SM22 2510B	371289		
70322186006	MW-7S	SM22 2510B	371289		
70322186007	MW-9S	SM22 2510B	371289		
70322186008	MW-9D	SM22 2510B	371289		
70322186009	MW-17D	SM22 2510B	371289		
70322186010	MW-17S	SM22 2510B	371289		
70322186011	MW-27D	SM22 2510B	371289		
70322186012	MW-27S	SM22 2510B	371289		
70322186013	FB-01	SM22 2510B	371289		
70322186001	MW-3A	SM22 2540C	371552		
70322186002	MW-5D MS/MSD	SM22 2540C	371552		
70322186003	MW-5S	SM22 2540C	371552		
70322186004	MW-6DA	SM22 2540C	371552		
70322186005	MW-6S	SM22 2540C	371552		
70322186006	MW-7S	SM22 2540C	371552		
70322186007	MW-9S	SM22 2540C	371552		
70322186008	MW-9D	SM22 2540C	371552		
70322186009	MW-17D	SM22 2540C	371552		
70322186010	MW-17S	SM22 2540C	371552		
70322186011	MW-27D	SM22 2540C	371552		
70322186012	MW-27S	SM22 2540C	371552		
70322186013	FB-01	SM22 2540C	371553		
70322186001	MW-3A	EPA 410.4	371463	EPA 410.4	371468
70322186002	MW-5D MS/MSD	EPA 410.4	371463	EPA 410.4	371468

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70322186003	MW-5S	EPA 410.4	371463	EPA 410.4	371468
70322186004	MW-6DA	EPA 410.4	371463	EPA 410.4	371468
70322186005	MW-6S	EPA 410.4	371463	EPA 410.4	371468
70322186006	MW-7S	EPA 410.4	371463	EPA 410.4	371468
70322186007	MW-9S	EPA 410.4	371463	EPA 410.4	371468
70322186008	MW-9D	EPA 410.4	371463	EPA 410.4	371468
70322186009	MW-17D	EPA 410.4	371463	EPA 410.4	371468
70322186010	MW-17S	EPA 410.4	371463	EPA 410.4	371468
70322186011	MW-27D	EPA 410.4	371463	EPA 410.4	371468
70322186012	MW-27S	EPA 410.4	371463	EPA 410.4	371468
70322186013	FB-01	EPA 410.4	371463	EPA 410.4	371468
70322186001	MW-3A	SM22 5210B	370933	SM22 5210B	372062
70322186002	MW-5D MS/MSD	SM22 5210B	370933	SM22 5210B	372062
70322186003	MW-5S	SM22 5210B	370933	SM22 5210B	372062
70322186004	MW-6DA	SM22 5210B	370933	SM22 5210B	372062
70322186005	MW-6S	SM22 5210B	370933	SM22 5210B	372062
70322186006	MW-7S	SM22 5210B	370933	SM22 5210B	372062
70322186007	MW-9S	SM22 5210B	370933	SM22 5210B	372062
70322186008	MW-9D	SM22 5210B	370933	SM22 5210B	372062
70322186009	MW-17D	SM22 5210B	370933	SM22 5210B	372062
70322186010	MW-17S	SM22 5210B	370933	SM22 5210B	372062
70322186011	MW-27D	SM22 5210B	370933	SM22 5210B	372062
70322186012	MW-27S	SM22 5210B	370933	SM22 5210B	372062
70322186013	FB-01	SM22 5210B	370933	SM22 5210B	372062
70322186001	MW-3A	EPA 300.0	372801		
70322186002	MW-5D MS/MSD	EPA 300.0	372801		
70322186003	MW-5S	EPA 300.0	372801		
70322186004	MW-6DA	EPA 300.0	372801		
70322186005	MW-6S	EPA 300.0	372801		
70322186006	MW-7S	EPA 300.0	372801		
70322186007	MW-9S	EPA 300.0	372801		
70322186008	MW-9D	EPA 300.0	372801		
70322186009	MW-17D	EPA 300.0	372801		
70322186010	MW-17S	EPA 300.0	372801		
70322186011	MW-27D	EPA 300.0	372801		
70322186012	MW-27S	EPA 300.0	372801		
70322186013	FB-01	EPA 300.0	372801		
70322186001	MW-3A	EPA 351.2	370978	EPA 351.2	370986
70322186002	MW-5D MS/MSD	EPA 351.2	370978	EPA 351.2	370986
70322186003	MW-5S	EPA 351.2	370978	EPA 351.2	370986
70322186004	MW-6DA	EPA 351.2	370978	EPA 351.2	370986
70322186005	MW-6S	EPA 351.2	370978	EPA 351.2	370986
70322186006	MW-7S	EPA 351.2	370978	EPA 351.2	370986
70322186007	MW-9S	EPA 351.2	370978	EPA 351.2	370986
70322186008	MW-9D	EPA 351.2	370978	EPA 351.2	370986
70322186009	MW-17D	EPA 351.2	370978	EPA 351.2	370986
70322186010	MW-17S	EPA 351.2	370978	EPA 351.2	370986

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OPERATIONAL WELLS 11/13

Pace Project No.: 70322186

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70322186011	MW-27D	EPA 351.2	370978	EPA 351.2	370986
70322186012	MW-27S	EPA 351.2	370978	EPA 351.2	370986
70322186013	FB-01	EPA 351.2	370978	EPA 351.2	370986
70322186001	MW-3A	EPA 353.2	370966		
70322186002	MW-5D MS/MSD	EPA 353.2	370969		
70322186003	MW-5S	EPA 353.2	370969		
70322186004	MW-6DA	EPA 353.2	370966		
70322186005	MW-6S	EPA 353.2	370966		
70322186006	MW-7S	EPA 353.2	370966		
70322186007	MW-9S	EPA 353.2	370969		
70322186008	MW-9D	EPA 353.2	370969		
70322186009	MW-17D	EPA 353.2	370969		
70322186010	MW-17S	EPA 353.2	370969		
70322186011	MW-27D	EPA 353.2	370969		
70322186012	MW-27S	EPA 353.2	370969		
70322186013	FB-01	EPA 353.2	370969		
70322186001	MW-3A	EPA 353.2	370963		
70322186002	MW-5D MS/MSD	EPA 353.2	370964		
70322186003	MW-5S	EPA 353.2	370964		
70322186004	MW-6DA	EPA 353.2	370963		
70322186005	MW-6S	EPA 353.2	370963		
70322186006	MW-7S	EPA 353.2	370963		
70322186007	MW-9S	EPA 353.2	370964		
70322186008	MW-9D	EPA 353.2	370964		
70322186009	MW-17D	EPA 353.2	370964		
70322186010	MW-17S	EPA 353.2	370963		
70322186011	MW-27D	EPA 353.2	370964		
70322186012	MW-27S	EPA 353.2	370964		
70322186013	FB-01	EPA 353.2	370964		
70322186001	MW-3A	SM22 4500 NH3 H	371570		
70322186002	MW-5D MS/MSD	SM22 4500 NH3 H	371573		
70322186003	MW-5S	SM22 4500 NH3 H	371573		
70322186004	MW-6DA	SM22 4500 NH3 H	371573		
70322186005	MW-6S	SM22 4500 NH3 H	371573		
70322186006	MW-7S	SM22 4500 NH3 H	371573		
70322186007	MW-9S	SM22 4500 NH3 H	371573		
70322186008	MW-9D	SM22 4500 NH3 H	371573		
70322186009	MW-17D	SM22 4500 NH3 H	371573		
70322186010	MW-17S	SM22 4500 NH3 H	371573		
70322186011	MW-27D	SM22 4500 NH3 H	371573		
70322186012	MW-27S	SM22 4500 NH3 H	371573		
70322186013	FB-01	SM22 4500 NH3 H	371573		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OPERATIONAL WELLS 11/13
Pace Project No.: 70322186

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70322186001	MW-3A	EPA 9060A	371268		
70322186002	MW-5D MS/MSD	EPA 9060A	372515		
70322186003	MW-5S	EPA 9060A	372515		
70322186004	MW-6DA	EPA 9060A	372515		
70322186005	MW-6S	EPA 9060A	372515		
70322186006	MW-7S	EPA 9060A	372515		
70322186007	MW-9S	EPA 9060A	372515		
70322186008	MW-9D	EPA 9060A	372515		
70322186009	MW-17D	EPA 9060A	372515		
70322186010	MW-17S	EPA 9060A	372515		
70322186011	MW-27D	EPA 9060A	372515		
70322186012	MW-27S	EPA 9060A	372515		
70322186013	FB-01	EPA 9060A	372515		

REPORT OF LABORATORY ANALYSIS

Chain-of-Custody Analytical Request Document

LAB USE ONLY

W0#: 70322186

Number or MTJL Log-ONLY

Company: Al Tun Landfill

Address: 73 Hartley Road Goshen, NY 10924

Report To: TJ Milo

Copy To:

Customer Project Name/Number: Operational Wells

Phone: 914-807-2385

Fax:

Collected by (print): Matt Broker PACE

Collected by (signature):

Turnaround Date Required: Standard

Sample Disposal: [] Return [] Archive [] Hold

RUSH: Same Day Next Day 2 Day 3 Day 4 Day 5 Day (Expedite Charges Apply)

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID

Matrix* Comp/Grab

Collected (or Composite Start) Date Time

Composite End Date Time

Res CI

of Cans

NH3, TKN, COD

TOC

TOTAL PHENOLS

ALKALINITY

TDS, CL, NO3, SO4, BROMIDE, BOD5

T-AS, CA, CD, FE, MN, MG, PB, K, NA+CALC

HARDNESS

PH, EH, TEMP, TURBIDITY, CONDUCTIVITY

LAB Sample Receipt Checklist:

Custody Seals Present/Intact

Custody Signatures Present

Collector Signature Present

Bottles Intact

Correct Bottles

Sufficient Volume

VOC - Headspace Acceptable

USDA Regulated Solids

Samples in holding time

Residual Chlorine Present

Cl Strips

Sample pH Acceptable

pH Strips

Sulfide Present

Lead Acetate Strips

LAB USE ONLY: ↓

LAB Sample # / Comments

LAB Profile/Line:

LAB Sample Temperature Info:

Temp Blank received:

Therm ID #:

Cooler 1 Temp Upon Receipt

Cooler 1 Therm Corr. Factor

Cooler 1 Corrected Temp

Comments:

Trip Blank Received:

HCL MeOH TSP Other

NonConformance(s)

YES / NO

Page of

PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-3A

PACE ID

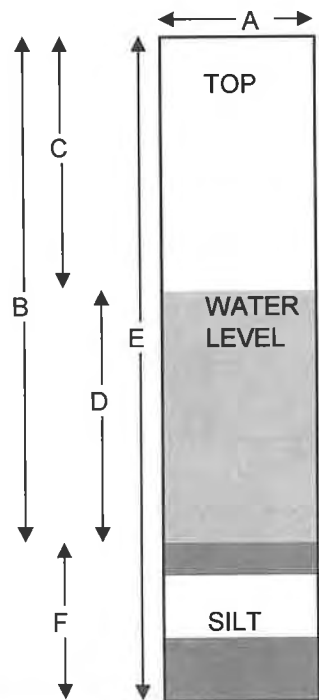
Condition of Well: Good

Locked: yes

Method of Evacuation: Bailer

Lock ID: _____

Method of Sampling: Bailer



A.	Diameter of Well	<u>4</u>	inches
B.	Well Depth Measured	<u>27.90</u>	feet
C.	Depth to Water	<u>17.10</u>	feet
D.	Length of Water Column (calculated)	<u>10.80</u>	feet
	Conversion Factor	<u>0.65</u>	-----
	Well Volume (calculated)	<u>7.02</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>21.06</u>	gallons
	Actual Volume Evacuated	<u>20.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>11/12/24</u>	<u>11/13/24</u>
Time	<u>11:45</u>	<u>10:50</u>
EH	<u>76</u>	<u>75</u> mV
Temperature	<u>12.3</u>	<u>10.9</u> C
pH	<u>8.34</u>	<u>7.61</u> SU
Specific Cond.	<u>327.7</u>	<u>568.1</u> uS
Turbidity	<u>8.3</u>	<u>104</u> NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>clear</u>	<u>cloudy</u>

% Recharge:

Initial Depth to Water	<u>17.10</u>	feet
Recharge Depth to Water	<u>18.20</u>	feet
2nd water column height	_____	%
1st water column height	_____	

Elevation (Top of Casing)	<u>N/A</u>	feet
G.W. Elevation=	<u>N/A</u>	feet
G.W. Elevation = Top of Case Elev - Total Depth		

Weather: 8C sunny, windy

Observations: sulfur odor

Sampler:

Matt Broker

Signature:

[Signature]

PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-5D MS/MSD

PACE ID

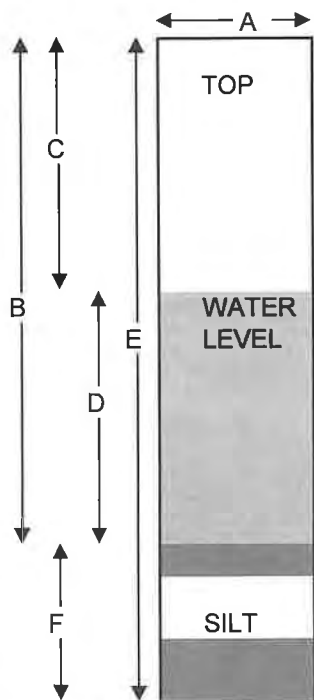
Condition of Well: Good

Locked: yes

Method of Evacuation: Bailer

Lock ID: _____

Method of Sampling: Bailer



A.	Diameter of Well	<u>2</u>	inches
B.	Well Depth Measured	<u>156.48</u>	feet
C.	Depth to Water	<u>21.50</u>	feet
D.	Length of Water Column (calculated)	<u>134.98</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>21.60</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>64.80</u>	gallons
	Actual Volume Evacuated	<u>64.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>11/12/24</u>	<u>11/13/24</u>
Time	<u>13:10</u>	<u>12:05</u>
EH	<u>22</u>	<u>-37</u> mV
Temperature	<u>14.7</u>	<u>13.1</u> C
pH	<u>8.36</u>	<u>8.13</u> SU
Specific Cond.	<u>264.6</u>	<u>261.5</u> uS
Turbidity	<u>8.86</u>	<u>8.29</u> NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>clear</u>	<u>clear</u>

% Recharge:

Initial Depth to Water 21.13 feet

Recharge Depth to Water 21.42 feet

2nd water column height _____ %

1st water column height _____

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Matt Broker

Signature: [Signature]

Weather: 9C sunny, windy

Observations: sample clear

PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-5S

PACE ID

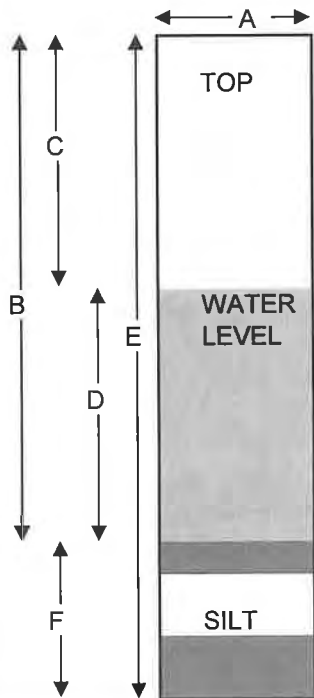
Condition of Well: Good

Locked: yes

Method of Evacuation: Bailer

Lock ID: _____

Method of Sampling: Bailer



A.	Diameter of Well	<u>2</u>	inches
B.	Well Depth Measured	<u>38.92</u>	feet
C.	Depth to Water	<u>21.13</u>	feet
D.	Length of Water Column (calculated)	<u>17.79</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>2.85</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>8.55</u>	gallons
	Actual Volume Evacuated	<u>8.5</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>11/12/24</u>	<u>11/13/24</u>
Time	<u>13:05</u>	<u>11:55</u>
EH	<u>12</u>	<u>-3</u> mV
Temperature	<u>14.9</u>	<u>12.5</u> C
pH	<u>6.99</u>	<u>6.99</u> SU
Specific Cond.	<u>1027</u>	<u>1055</u> uS
Turbidity	<u>> 1000</u>	<u>78.9</u> NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>orange</u>	<u>cloudy</u>

% Recharge:

Initial Depth to Water 21.50 feet

Recharge Depth to Water 21.15 feet

2nd water column height _____ %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 9C sunny, windy

Observations: sample cloudy

cloudy orange while purging

Sampler:

Matt Broker

Signature: [Signature]

PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-6DA

PACE ID

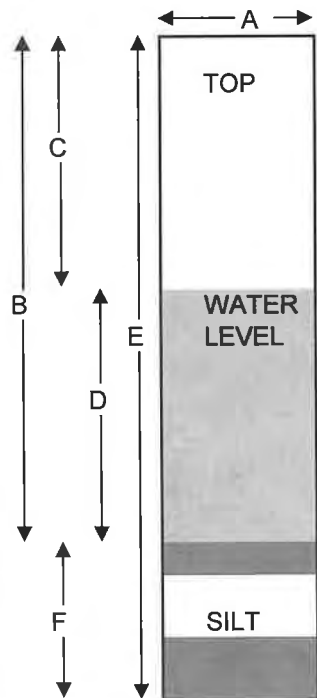
Condition of Well: Good

Locked: _____

Method of Evacuation: Bailer

Lock ID: _____

Method of Sampling: Bailer



A.	Diameter of Well	<u>2</u>	inches
B.	Well Depth Measured	<u>123.06</u>	feet
C.	Depth to Water	<u>20.70</u>	feet
D.	Length of Water Column (calculated)	<u>102.36</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>16.38</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>49.14</u>	gallons
	Actual Volume Evacuated	<u>50.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling	
Date	<u>11/12/24</u>	<u>11/13/24</u>	
Time	<u>12:20</u>	<u>11:18</u>	
EH	<u>-71</u>	<u>-54</u>	mV
Temperature	<u>13.5</u>	<u>11.5</u>	C
pH	<u>7.61</u>	<u>7.77</u>	SU
Specific Cond.	<u>406.2</u>	<u>383.2</u>	uS
Turbidity	<u>173</u>	<u>4.72</u>	NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>	
Appearance	<u>cloudy</u>	<u>clear</u>	

% Recharge:

Initial Depth to Water 20.70 feet

Recharge Depth to Water 21.10 feet

2nd water column height _____ %

1st water column height _____

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 9C sunny, windy

Observations: sample clear

Sampler:

Matt Broker

Signature: _____

PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-6S

PACE ID

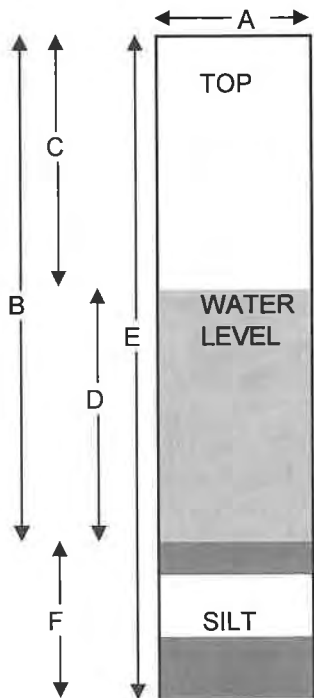
Condition of Well: Broken

Locked: no

Method of Evacuation: Bailer

Lock ID:

Method of Sampling: Bailer



A.	Diameter of Well	<u>2</u>	inches
B.	Well Depth Measured	<u>33.73</u>	feet
C.	Depth to Water	<u>31.35</u>	feet
D.	Length of Water Column (calculated)	<u>2.38</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>0.38</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>1.14</u>	gallons
	Actual Volume Evacuated	<u>1.3</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling	
Date	<u>11/12/24</u>	<u>11/13/24</u>	
Time	<u>12:15</u>	<u>11:25</u>	
EH	<u>-89</u>	<u>-54</u>	mV
Temperature	<u>13.6</u>	<u>11.3</u>	C
pH	<u>6.75</u>	<u>6.79</u>	SU
Specific Cond.	<u>912.3</u>	<u>887.5</u>	uS
Turbidity	<u>12.4</u>	<u>280</u>	NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>	
Appearance	<u>clear</u>	<u>cloudy</u>	

% Recharge:

Initial Depth to Water 31.35 feet
 Recharge Depth to Water 30.13 feet
 2nd water column height %
 1st water column height

Elevation(Top of Casing) N/A feet
 G.W. Elevation=N/A feet
 G.W.Elevation =Top of Case Elev-Total Depth

Weather: 9C sunny, windy

Observations: orange to cloudy while purging

sulfur odor

Sampler:

Matt Broker

Signature:

PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-7S

PACE ID

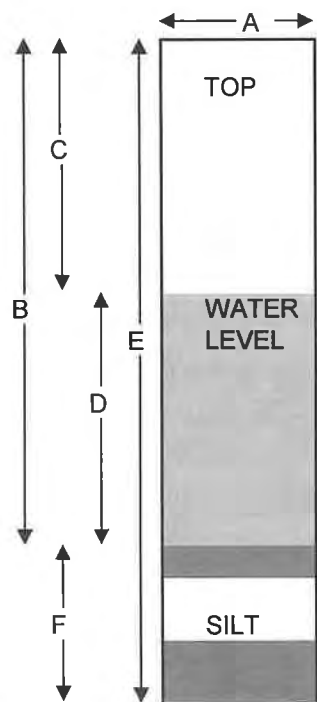
Condition of Well: Broken

Locked: yes

Method of Evacuation: Bailer

Lock ID: _____

Method of Sampling: Bailer



A.	Diameter of Well	<u>2</u>	inches
B.	Well Depth Measured	<u>45.00</u>	feet
C.	Depth to Water	<u>36.36</u>	feet
D.	Length of Water Column (calculated)	<u>8.64</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>1.38</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>4.14</u>	gallons
	Actual Volume Evacuated	<u>5.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>11/12/24</u>	<u>11/13/24</u>
Time	<u>12:00</u>	<u>11:07</u>
EH	<u>-49</u>	<u>-82</u> mV
Temperature	<u>14.9</u>	<u>13.9</u> C
pH	<u>6.89</u>	<u>6.91</u> SU
Specific Cond.	<u>1241</u>	<u>1218</u> uS
Turbidity	<u>2.99</u>	<u>15.4</u> NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>clear</u>	<u>slightly cloudy</u>

% Recharge:

Initial Depth to Water 36.36 feet

Recharge Depth to Water 36.35 feet

2nd water column height _____ %

1st water column height _____

Elevation (Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W. Elevation = Top of Case Elev - Total Depth

Weather: 9C sunny, windy

Observations: sulfur odor

Sampler:

Matt Broker

Signature: [Signature]

PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-9D

PACE ID

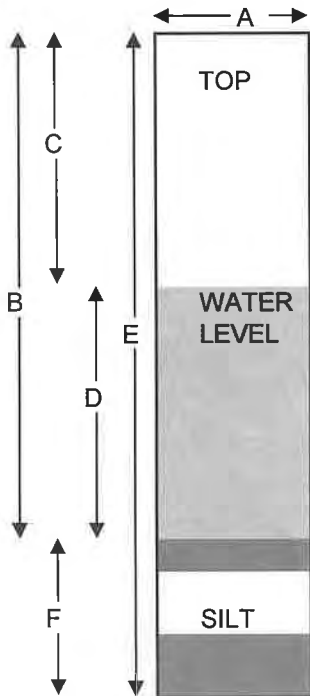
Condition of Well: Good

Locked: _____

Method of Evacuation: Bailer

Lock ID: _____

Method of Sampling: Bailer



A.	Diameter of Well	<u>2</u>	inches
B.	Well Depth Measured	<u>275.00</u>	feet
C.	Depth to Water	<u>45.50</u>	feet
D.	Length of Water Column (calculated)	<u>229.50</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>36.72</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>110.16</u>	gallons
	Actual Volume Evacuated	<u>40.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>11/12/24</u>	<u>11/13/24</u>
Time	<u>14:10</u>	<u>13:10</u>
EH	<u>-25</u>	<u>13</u> mV
Temperature	<u>14.4</u>	<u>14.4</u> C
pH	<u>7.33</u>	<u>7.35</u> SU
Specific Cond.	<u>860.8</u>	<u>843.2</u> uS
Turbidity	<u>4.33</u>	<u>6.9</u> NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>clear</u>	<u>clear</u>

% Recharge:	
Initial Depth to Water	<u>45.50</u> feet
Recharge Depth to Water	<u>48.40</u> feet
2nd water column height	_____ %
1st water column height	_____
Elevation (Top of Casing)	<u>N/A</u> feet
G.W. Elevation=	<u>N/A</u> feet
G.W. Elevation = Top of Case Elev - Total Depth	

Weather: 9C sunny, windy
 Observations: sample clear

Sampler: Matt Broker
 Signature: [Signature]

PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-9S

PACE ID

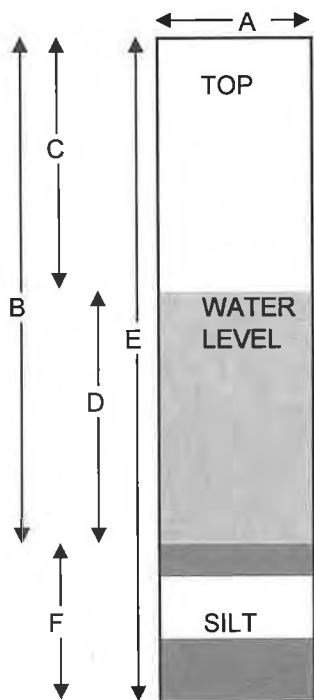
Condition of Well: Good

Locked: no

Method of Evacuation: Bailer

Lock ID: _____

Method of Sampling: Bailer



A.	Diameter of Well	<u>2</u>	inches
B.	Well Depth Measured	<u>58.06</u>	feet
C.	Depth to Water	<u>47.84</u>	feet
D.	Length of Water Column (calculated)	<u>10.22</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>1.64</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>4.92</u>	gallons
	Actual Volume Evacuated	<u>5.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>11/12/24</u>	<u>11/13/24</u>
Time	<u>14:00</u>	<u>13:00</u>
EH	<u>-16</u>	<u>4</u> mV
Temperature	<u>15.3</u>	<u>13.8</u> C
pH	<u>6.42</u>	<u>6.47</u> SU
Specific Cond.	<u>1171</u>	<u>1159</u> uS
Turbidity	<u>6.16</u>	<u>21.6</u> NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>clear</u>	<u>slightly cloudy</u>

% Recharge:

Initial Depth to Water 47.84 feet

Recharge Depth to Water 47.80 feet

2nd water column height _____ %

1st water column height _____

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 9C sunny, windy

Observations: _____

Sampler: _____

Matt Broker

Signature: _____

PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-17D

PACE ID

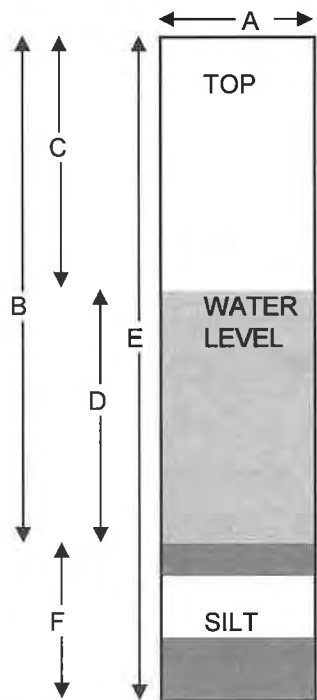
Condition of Well: Good

Locked: yes

Method of Evacuation: Bailer

Lock ID: _____

Method of Sampling: Bailer



A.	Diameter of Well	<u>2</u>	inches
B.	Well Depth Measured	<u>86.91</u>	feet
C.	Depth to Water	<u>21.79</u>	feet
D.	Length of Water Column (calculated)	<u>65.12</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>10.42</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>31.26</u>	gallons
	Actual Volume Evacuated	<u>31.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>11/12/24</u>	<u>11/13/24</u>
Time	<u>12:40</u>	<u>11:45</u>
EH	<u>-17</u>	<u>-18</u> mV
Temperature	<u>13</u>	<u>12.3</u> C
pH	<u>7.63</u>	<u>7.09</u> SU
Specific Cond.	<u>992.1</u>	<u>1135</u> uS
Turbidity	<u>6.96</u>	<u>6.55</u> NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>clear</u>	<u>clear</u>

Weather: 9C sunny, windy

Observations: sulfur odor

% Recharge:

Initial Depth to Water 21.79 feet

Recharge Depth to Water 21.75 feet

2nd water column height _____ %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Sampler:

Matt Broker

Signature: [Signature]

PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-17S

PACE ID

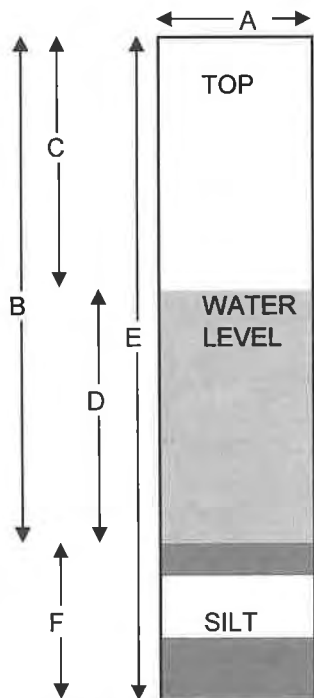
Condition of Well: Good

Locked: yes

Method of Evacuation: Bailer

Lock ID: _____

Method of Sampling: Bailer



A.	Diameter of Well	<u>2</u>	inches
B.	Well Depth Measured	<u>29.40</u>	feet
C.	Depth to Water	<u>22.62</u>	feet
D.	Length of Water Column (calculated)	<u>6.78</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>1.08</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>3.24</u>	gallons
	Actual Volume Evacuated	<u>3.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>11/12/24</u>	<u>11/13/24</u>
Time	<u>12:30</u>	<u>11:37</u>
EH	<u>-44</u>	<u>-29</u> mV
Temperature	<u>13.2</u>	<u>12</u> C
pH	<u>6.86</u>	<u>6.79</u> SU
Specific Cond.	<u>1027</u>	<u>1038</u> uS
Turbidity	<u>832</u>	<u>187</u> NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>orange</u>	<u>cloudy</u>

% Recharge:

Initial Depth to Water 22.62 feet

Recharge Depth to Water 22.60 feet

2nd water column height _____ %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 9C sunny, windy

Observations: sample cloudy

Sampler:

Matt Broker

Signature: Matt Broker

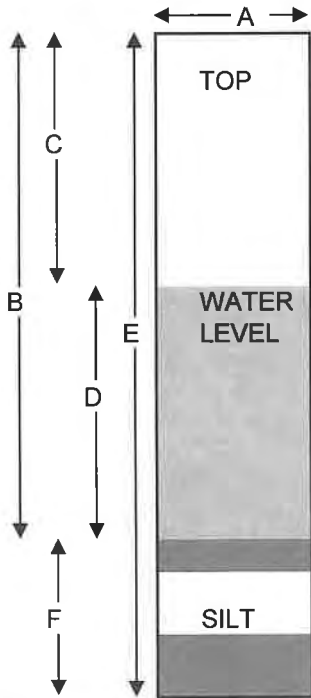
PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-27D

PACE ID

Condition of Well: Good
 Method of Evacuation: Bailer
 Method of Sampling: Bailer

Locked: yes
 Lock ID: _____



A.	Diameter of Well	<u>2</u>	inches
B.	Well Depth Measured	<u>135.40</u>	feet
C.	Depth to Water	<u>40.55</u>	feet
D.	Length of Water Column (calculated)	<u>94.85</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>15.18</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>45.54</u>	gallons
	Actual Volume Evacuated	<u>45.0</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>11/12/24</u>	<u>11/13/24</u>
Time	<u>13:20</u>	<u>12:45</u>
EH	<u>-55</u>	<u>-4</u> mV
Temperature	<u>15.4</u>	<u>12.5</u> C
pH	<u>7.55</u>	<u>7.72</u> SU
Specific Cond.	<u>354.7</u>	<u>364.8</u> uS
Turbidity	<u>14.4</u>	<u>6.21</u> NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>slightly cloudy</u>	<u>clear</u>

% Recharge:

Initial Depth to Water	<u>40.55</u>	feet
Recharge Depth to Water	<u>41.14</u>	feet
2nd water column height		%
1st water column height		
Elevation (Top of Casing)	<u>N/A</u>	feet
G.W. Elevation=	<u>N/A</u>	feet
G.W. Elevation = Top of Case Elev - Total Depth		

Weather: 9C sunny, windy
 Observations: sample clear

Sampler: Matt Broker
 Signature: [Signature]

PACE Analytical Services, Inc. Ground water Field Log

Client: Al Turi Landfill
 Project: Operational Wells
 Well ID.: W-27S

PACE ID

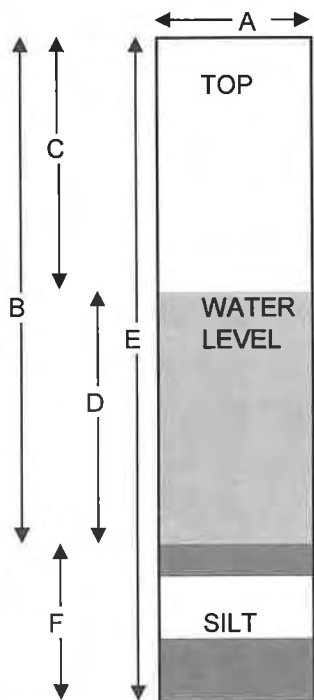
Condition of Well: Good

Locked: yes

Method of Evacuation: Bailer

Lock ID: _____

Method of Sampling: Bailer



A.	Diameter of Well	<u>2</u>	inches
B.	Well Depth Measured	<u>44.28</u>	feet
C.	Depth to Water	<u>41.52</u>	feet
D.	Length of Water Column (calculated)	<u>2.76</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>0.44</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>1.32</u>	gallons
	Actual Volume Evacuated	<u>1.5</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	<u>11/12/24</u>	<u>11/13/24</u>
Time	<u>13:25</u>	<u>12:35</u>
EH	<u>-65</u>	<u>19</u> mV
Temperature	<u>14.9</u>	<u>12.1</u> C
pH	<u>6.75</u>	<u>6.81</u> SU
Specific Cond.	<u>1186</u>	<u>1194</u> uS
Turbidity	<u>23.7</u>	<u>11.9</u> NTU
Dissolved Oxygen	<u>N/A</u>	<u>N/A</u>
Appearance	<u>cloudy</u>	<u>clear</u>

% Recharge:

Initial Depth to Water 41.52 feet

Recharge Depth to Water 41.50 feet

2nd water column height _____ %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W. Elevation =Top of Case Elev-Total Depth

Weather: (C sunny, windy

Observations: sample clear

Sampler:

Matt Broker

Signature: [Signature]

Sample Receiving Non-Conformance Form (NCF)

Date: 11/14/24	Evaluated by: AEB
Client: ALTURI	

Affix Workorder/Login Label Here or List Pace
 Workorder Number or MTJL Log-in Number
 Here

70322186

If Chain-of-Custody (COC) is not received: contact client and if necessary, fill out a COC and indicate that it was filled out by personnel. Note issues on this NCF.

If COC is incomplete, check applicable issues below and add details where appropriate:

Collection date/time missing or incorrect	Analyses or analytes: missing or clarification needed	☒	Samples listed on COC do not match samples received (missing, additional, etc.)
Sample IDs on COC do not match sample labels	Required trip blanks were not received		Required signatures are missing

Comments/Details/Other Issues not listed above:

**FB-01 Sample not listed on COC
 client said he would bring in the other page
 on 11/15**

3. Sample integrity issues: check applicable issues below and add details where appropriate:

Samples: Past holding time	Samples: Condition needs to be brought to lab personnel's attention (details below)	Preservation: Improper
Samples: Not field filtered	Containers: Broken or compromised	Temperature: not within acceptance criteria (typical 0-6C)
Samples: Insufficient volume received	Containers: Incorrect	Temperature: Samples arrived frozen
Samples: Cooler damaged or compromised	Custody Seals: Missing or compromised on samples, trip blanks or coolers	Vials received with improper headspace
Samples: contain chlorine or sulfides	Packing Material: Insufficient/Improper	Other:

Comments/Details:

4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:

Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:

5. Client Contact: If client is contacted for any issue listed above, fill in details below:

Client:	Contacted per:
PM Initials:	Date/Time:
Client Comments/Instructions:	



Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

M4K1205

Project Description

Phenolics 70322186

For:

Avida Sharma

Pace Analytical Melville

575 Broad Hollow RD

Melville, NY 11747

Customer Relationship Coordinator

Jacqueline Parsons

Monday, December 2, 2024

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories Inc., - Marietta, OH. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc.

158 Starlite Drive | Marietta, OH 45750 | 800.373.4071 p | www.microbac.com



Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

M4K1205

Pace Analytical Melville

Project Name: Phenolics 70322186

Avida Sharma
575 Broad Hollow RD
Melville, NY 11747

Project / PO Number: 70322186 KMM
Received: 11/19/2024
Reported: 12/02/2024

Case Narrative

Only received (1) bottle for parent/MS/MSD.

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
MW-3A	M4K1205-01	Aqueous			11/13/24 10:50	11/19/24 10:45
MW-5D MS/MSD	M4K1205-02	Aqueous			11/13/24 12:05	11/19/24 10:45
MW-5S	M4K1205-03	Aqueous			11/13/24 11:55	11/19/24 10:45
MW-6DA	M4K1205-04	Aqueous			11/13/24 11:18	11/19/24 10:45
MW-6S	M4K1205-05	Aqueous			11/13/24 11:25	11/19/24 10:45
MW-7S	M4K1205-06	Aqueous			11/13/24 11:07	11/19/24 10:45
MW-9S	M4K1205-07	Aqueous			11/13/24 13:00	11/19/24 10:45
MW-9D	M4K1205-08	Aqueous			11/13/24 13:10	11/19/24 10:45
MW-17D	M4K1205-09	Aqueous			11/13/24 11:45	11/19/24 10:45
MW-17S	M4K1205-10	Aqueous			11/13/24 11:37	11/19/24 10:45
MW-27D	M4K1205-11	Aqueous			11/13/24 12:45	11/19/24 10:45
MW-27S	M4K1205-12	Aqueous			11/13/24 12:35	11/19/24 10:45
FB-01	M4K1205-13	Aqueous			11/13/24 12:25	11/19/24 10:45



Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

M4K1205

Analytical Testing Parameters

Client Sample ID:	MW-3A	Collection Date:	11/13/2024 10:50
Sample Matrix:	Aqueous		
Lab Sample ID:	M4K1205-01		

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0100	0.0100	mg/L	1		11/25/24 0847	11/26/24 1257	TTB

Client Sample ID:	MW-5D MS/MSD	Collection Date:	11/13/2024 12:05
Sample Matrix:	Aqueous		
Lab Sample ID:	M4K1205-02		

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0100	0.0100	mg/L	1		11/25/24 0847	11/26/24 1300	TTB

Client Sample ID:	MW-5S	Collection Date:	11/13/2024 11:55
Sample Matrix:	Aqueous		
Lab Sample ID:	M4K1205-03		

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0100	0.0100	mg/L	1		11/25/24 0847	11/26/24 1311	TTB

Client Sample ID:	MW-6DA	Collection Date:	11/13/2024 11:18
Sample Matrix:	Aqueous		
Lab Sample ID:	M4K1205-04		

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0100	0.0100	mg/L	1		11/25/24 0847	11/26/24 1313	TTB

Client Sample ID:	MW-6S	Collection Date:	11/13/2024 11:25
Sample Matrix:	Aqueous		
Lab Sample ID:	M4K1205-05		

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0200	0.0200	mg/L	1		11/25/24 0847	11/26/24 1316	TTB



Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

M4K1205

Client Sample ID:	MW-7S								
Sample Matrix:	Aqueous								
Lab Sample ID:	M4K1205-06								
Collection Date:						11/13/2024 11:07			

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0100	0.0100	mg/L	1		11/25/24 0847	11/26/24 1319	TTB

Client Sample ID:	MW-9S								
Sample Matrix:	Aqueous								
Lab Sample ID:	M4K1205-07								
Collection Date:						11/13/2024 13:00			

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	0.156	0.0200	mg/L	1		11/27/24 1448	11/29/24 1503	TTB

Client Sample ID:	MW-9D								
Sample Matrix:	Aqueous								
Lab Sample ID:	M4K1205-08								
Collection Date:						11/13/2024 13:10			

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0100	0.0100	mg/L	1		11/25/24 0847	11/26/24 1321	TTB

Client Sample ID:	MW-17D								
Sample Matrix:	Aqueous								
Lab Sample ID:	M4K1205-09								
Collection Date:						11/13/2024 11:45			

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0200	0.0200	mg/L	1		11/27/24 1448	11/29/24 1505	TTB

Client Sample ID:	MW-17S								
Sample Matrix:	Aqueous								
Lab Sample ID:	M4K1205-10								
Collection Date:						11/13/2024 11:37			

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0100	0.0100	mg/L	1		11/25/24 0847	11/26/24 1324	TTB

Client Sample ID:	MW-27D								
Sample Matrix:	Aqueous								
Lab Sample ID:	M4K1205-11								
Collection Date:						11/13/2024 12:45			

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0200	0.0200	mg/L	1		11/25/24 0847	11/26/24 1327	TTB



Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

M4K1205

Client Sample ID:	MW-27S								
Sample Matrix:	Aqueous								
Lab Sample ID:	M4K1205-12								
					Collection Date:	11/13/2024 12:35			

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0100	0.0100	mg/L	1		11/25/24 0847	11/26/24 1330	TTB

Client Sample ID:	FB-01								
Sample Matrix:	Aqueous								
Lab Sample ID:	M4K1205-13								
					Collection Date:	11/13/2024 12:25			

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0100	0.0100	mg/L	1		11/25/24 0847	11/26/24 1332	TTB

Definitions

DF:	Dilution Factor representing the amount the sample was diluted during analysis and may not represent preparation factors.
MDL:	Minimum Detection Limit
mg/L:	Milligrams per Liter
RL:	Reporting Limit

Cooler Receipt Log

Cooler ID:	Default Cooler	Temp:	2.2°C
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Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes	Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes		

Project Requested Certification(s)

Microbac Laboratories Inc., - Marietta, OH
10861

NY State Department of Health

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

Jacqueline Parsons
Customer Relationship Coordinator
Reported: 12/02/2024 16:09

Chain of Custody

PASI New York Laboratory



Workorder: 70322186

Workorder Name: OPERATIONAL WELLS 11/13

Results Requested By: 12/2/2024

Kimberly M. Mack
Pace Analytical Melville
575 Broad Hollow Road
Melville, NY 11747
Phone 516-370-6052
Email: kimberly.mack@pacelabs.com

MICROBAC
158 Starlite Drive
Marietta, OH 45750
P.O. 70322186 KMM

Send Invoice To: invoices@pacelabs.coupanhost.com
State of Sample Origin: NY

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	H2SO4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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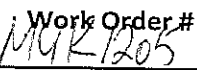


M 4 K 1 2 0 5

Pace Analytical - Melville, NY
Rec'd: 11/13/2024 10:45
By: Stephanie Murphy
Temp: 2.2
(Signature)

AFB

Transfers			Released By		Date/Time	Received By	Date/Time	Comments	
1					11/16/24 18:00				
2									
3									
Cooler Temperature on Receipt 22 °C									
					Custody Seal	Y or N	Received on Ice	Y or N	
								Samples Intact Y or N	



COOLER TEMP >6° C LOG

pH Lot # HC 94-1407

PRESERVATIVE EXCEPTIONS

~~NONE~~
AS NOTED

Document Control # 1957
Last 04-10-2019

11/19/24 Sm

Issued to: Document Master File



Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

M4K1205

Project Description

Phenolics 70322186

For:

Avida Sharma

Pace Analytical Melville

575 Broad Hollow RD

Melville, NY 11747

Customer Relationship Coordinator

Jacqueline Parsons

Monday, December 2, 2024

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories Inc., - Marietta, OH. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc.

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Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

M4K1205

Pace Analytical Melville

Project Name: Phenolics 70322186

Avida Sharma
575 Broad Hollow RD
Melville, NY 11747

Project / PO Number: 70322186 KMM
Received: 11/19/2024
Reported: 12/02/2024

Case Narrative

Only received (1) bottle for parent/MS/MSD.

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
MW-3A	M4K1205-01	Aqueous			11/13/24 10:50	11/19/24 10:45
MW-5D MS/MSD	M4K1205-02	Aqueous			11/13/24 12:05	11/19/24 10:45
MW-5S	M4K1205-03	Aqueous			11/13/24 11:55	11/19/24 10:45
MW-6DA	M4K1205-04	Aqueous			11/13/24 11:18	11/19/24 10:45
MW-6S	M4K1205-05	Aqueous			11/13/24 11:25	11/19/24 10:45
MW-7S	M4K1205-06	Aqueous			11/13/24 11:07	11/19/24 10:45
MW-9S	M4K1205-07	Aqueous			11/13/24 13:00	11/19/24 10:45
MW-9D	M4K1205-08	Aqueous			11/13/24 13:10	11/19/24 10:45
MW-17D	M4K1205-09	Aqueous			11/13/24 11:45	11/19/24 10:45
MW-17S	M4K1205-10	Aqueous			11/13/24 11:37	11/19/24 10:45
MW-27D	M4K1205-11	Aqueous			11/13/24 12:45	11/19/24 10:45
MW-27S	M4K1205-12	Aqueous			11/13/24 12:35	11/19/24 10:45
FB-01	M4K1205-13	Aqueous			11/13/24 12:25	11/19/24 10:45



Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

M4K1205

Analytical Testing Parameters

Client Sample ID:	MW-3A	Collection Date:	11/13/2024 10:50
Sample Matrix:	Aqueous		
Lab Sample ID:	M4K1205-01		

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0100	0.0100	mg/L	1		11/25/24 0847	11/26/24 1257	TTB

Client Sample ID:	MW-5D MS/MSD	Collection Date:	11/13/2024 12:05
Sample Matrix:	Aqueous		
Lab Sample ID:	M4K1205-02		

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0100	0.0100	mg/L	1		11/25/24 0847	11/26/24 1300	TTB

Client Sample ID:	MW-5S	Collection Date:	11/13/2024 11:55
Sample Matrix:	Aqueous		
Lab Sample ID:	M4K1205-03		

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0100	0.0100	mg/L	1		11/25/24 0847	11/26/24 1311	TTB

Client Sample ID:	MW-6DA	Collection Date:	11/13/2024 11:18
Sample Matrix:	Aqueous		
Lab Sample ID:	M4K1205-04		

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0100	0.0100	mg/L	1		11/25/24 0847	11/26/24 1313	TTB

Client Sample ID:	MW-6S	Collection Date:	11/13/2024 11:25
Sample Matrix:	Aqueous		
Lab Sample ID:	M4K1205-05		

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0200	0.0200	mg/L	1		11/25/24 0847	11/26/24 1316	TTB

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CERTIFICATE OF ANALYSIS

M4K1205

Client Sample ID: MW-7S
Sample Matrix: Aqueous
Lab Sample ID: M4K1205-06

Collection Date: 11/13/2024 11:07

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0100	0.0100	mg/L	1		11/25/24 0847	11/26/24 1319	TTB

Client Sample ID: MW-9S
Sample Matrix: Aqueous
Lab Sample ID: M4K1205-07

Collection Date: 11/13/2024 13:00

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	0.156	0.0200	mg/L	1		11/27/24 1448	11/29/24 1503	TTB

Client Sample ID: MW-9D
Sample Matrix: Aqueous
Lab Sample ID: M4K1205-08

Collection Date: 11/13/2024 13:10

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0100	0.0100	mg/L	1		11/25/24 0847	11/26/24 1321	TTB

Client Sample ID: MW-17D
Sample Matrix: Aqueous
Lab Sample ID: M4K1205-09

Collection Date: 11/13/2024 11:45

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0200	0.0200	mg/L	1		11/27/24 1448	11/29/24 1505	TTB

Client Sample ID: MW-17S
Sample Matrix: Aqueous
Lab Sample ID: M4K1205-10

Collection Date: 11/13/2024 11:37

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0100	0.0100	mg/L	1		11/25/24 0847	11/26/24 1324	TTB

Client Sample ID: MW-27D
Sample Matrix: Aqueous
Lab Sample ID: M4K1205-11

Collection Date: 11/13/2024 12:45

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0200	0.0200	mg/L	1		11/25/24 0847	11/26/24 1327	TTB

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Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

M4K1205

Client Sample ID: MW-27S
Sample Matrix: Aqueous
Lab Sample ID: M4K1205-12

Collection Date: 11/13/2024 12:35

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0100	0.0100	mg/L	1		11/25/24 0847	11/26/24 1330	TTB

Client Sample ID: FB-01
Sample Matrix: Aqueous
Lab Sample ID: M4K1205-13

Collection Date: 11/13/2024 12:25

Inorganics Total	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 420.1								
Phenolics, Total	<0.0100	0.0100	mg/L	1		11/25/24 0847	11/26/24 1332	TTB

Definitions

DF: Dilution Factor representing the amount the sample was diluted during analysis and may not represent preparation factors.
MDL: Minimum Detection Limit
mg/L: Milligrams per Liter
RL: Reporting Limit

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 2.2°C

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes	Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes		

Project Requested Certification(s)

Microbac Laboratories Inc., - Marietta, OH
10861

NY State Department of Health

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

Jacqueline Parsons
Customer Relationship Coordinator
Reported: 12/02/2024 16:09

Microbac Laboratories Inc., - Marietta, OH

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Page 5 of 8

Chain of Custody

PASI New York Laboratory



Workorder: 70322186

Workorder Name: OPERATIONAL WELLS 11/13

Results Requested By: 12/2/2024



Kimberly M. Mack
Pace Analytical Melville
575 Broad Hollow Road
Melville, NY 11747
Phone 516-370-6052
Email: kimberly.mack@pacelabs.com

MICROBAC
158 Starlite Drive
Marietta, OH 45750
P.O. 70322186 KMM

Send Invoice To: invoices@pacelabs.coupanhost.com
State of Sample Origin: NY

Report / Invoice To			Subcontract To			Requested Analysis												LAB USE ONLY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Kimberley M. Mack Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 Phone 516-370-6052 Email: kimberley.mack@pace-labs.com			MICROBAC 158 Starlite Drive Marietta, OH 45750 P.O. 70322186 KMM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers												PHENOLS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			



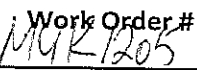
M 4 K 1 2 0 5

Pace Analytical - Melville, NY
Rec'd: 11/13/2024 10:45
By: Stephanie Murphy

Temp: 2.2 (Signature)

AFB

Transfers				Released By		Date/Time	Received By	Date/Time	Comments		
1						11/16/24 18:00					
2											
3											
Cooler Temperature on Receipt 22 °C											
						Custody Seal	Y or N	Received on Ice	Y or N	Samples Intact	Y or N



4. COOLER TEMP >6° C LOG

pH Lot # HC 947407

PRESERVATIVE EXCEPTIONS

~~NONE~~

AS NOTED

Document Control # 1957
Last 04-10-2019

11/19/24 Sm

Issued to: Document Master File



November 20, 2024

TJ Milo
Al Turi Landfill
73 Hartley Road
Goshen, NY 10924

RE: Project: OPERATIONAL WELLS 11/11
Pace Project No.: 70321615

Dear TJ Milo:

Enclosed are the analytical results for sample(s) received by the laboratory on November 12, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville
- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Kimberley Mack".

Kimberley M. Mack
kimberley.mack@pacelabs.com
516-370-6052
Project Manager

Enclosures

cc: Marc Colantuono
Diane Conroy, Tetra Tech



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



CERTIFICATIONS

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321615

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

Pace Analytical Services, LLC - Melville, NY

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Texas Certification #: T104704582

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SAMPLE ANALYTE COUNT

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321615

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70321615001	WALL UP	EPA 6010D	JWT	15	PACE-MV
		ASTM D2216-05M	NAA	1	PACE-MV
		Lloyd Kahn	TJJ	1	PASI-G
70321615002	WALL DOWN	EPA 6010D	JWT	15	PACE-MV
		ASTM D2216-05M	NAA	1	PACE-MV
		Lloyd Kahn	TJJ	1	PASI-G

PACE-MV = Pace Analytical Services - Melville

PASI-G = Pace Analytical Services - Green Bay

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321615

Sample: WALL UP Lab ID: 70321615001 Collected: 11/11/24 10:45 Received: 11/12/24 07:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
Pace Analytical Services - Melville								
Aluminum	12700	mg/kg	15.2	1	11/19/24 07:07	11/19/24 16:43	7429-90-5	
Antimony	<4.6	mg/kg	4.6	1	11/19/24 07:07	11/19/24 16:43	7440-36-0	
Arsenic	7.1	mg/kg	0.76	1	11/19/24 07:07	11/19/24 16:43	7440-38-2	
Barium	75.0	mg/kg	15.2	1	11/19/24 07:07	11/19/24 16:43	7440-39-3	
Boron	<3.8	mg/kg	3.8	1	11/19/24 07:07	11/19/24 16:43	7440-42-8	
Cadmium	0.49	mg/kg	0.19	1	11/19/24 07:07	11/19/24 16:43	7440-43-9	
Cobalt	11.3	mg/kg	3.8	1	11/19/24 07:07	11/19/24 16:43	7440-48-4	
Copper	38.7	mg/kg	1.9	1	11/19/24 07:07	11/19/24 16:43	7440-50-8	
Iron	22500	mg/kg	7.6	1	11/19/24 07:07	11/19/24 16:43	7439-89-6	
Lead	26.7	mg/kg	0.38	1	11/19/24 07:07	11/19/24 16:43	7439-92-1	
Manganese	843	mg/kg	1.1	1	11/19/24 07:07	11/19/24 16:43	7439-96-5	
Nickel	25.6	mg/kg	3.0	1	11/19/24 07:07	11/19/24 16:43	7440-02-0	
Selenium	<0.76	mg/kg	0.76	1	11/19/24 07:07	11/19/24 16:43	7782-49-2	
Vanadium	21.1	mg/kg	3.8	1	11/19/24 07:07	11/19/24 16:43	7440-62-2	
Zinc	433	mg/kg	1.5	1	11/19/24 07:07	11/19/24 16:43	7440-66-6	
Percent Moisture								
Analytical Method: ASTM D2216-05M								
Pace Analytical Services - Melville								
Percent Moisture	38.3	%	0.10	1		11/13/24 07:40		
TOC via Lloyd Kahn								
Analytical Method: Lloyd Kahn								
Pace Analytical Services - Green Bay								
Total Organic Carbon	48600	mg/kg	2100	1		11/14/24 21:24	7440-44-0	C4

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321615

Sample: WALL DOWN Lab ID: 70321615002 Collected: 11/11/24 11:25 Received: 11/12/24 07:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Melville						
Aluminum	9220	mg/kg	16.6	1	11/19/24 07:07	11/19/24 16:45	7429-90-5	
Antimony	<5.0	mg/kg	5.0	1	11/19/24 07:07	11/19/24 16:45	7440-36-0	
Arsenic	4.6	mg/kg	0.83	1	11/19/24 07:07	11/19/24 16:45	7440-38-2	
Barium	60.6	mg/kg	16.6	1	11/19/24 07:07	11/19/24 16:45	7440-39-3	
Boron	<4.2	mg/kg	4.2	1	11/19/24 07:07	11/19/24 16:45	7440-42-8	
Cadmium	0.25	mg/kg	0.21	1	11/19/24 07:07	11/19/24 16:45	7440-43-9	
Cobalt	8.0	mg/kg	4.2	1	11/19/24 07:07	11/19/24 16:45	7440-48-4	
Copper	26.0	mg/kg	2.1	1	11/19/24 07:07	11/19/24 16:45	7440-50-8	
Iron	16700	mg/kg	8.3	1	11/19/24 07:07	11/19/24 16:45	7439-89-6	
Lead	13.7	mg/kg	0.42	1	11/19/24 07:07	11/19/24 16:45	7439-92-1	
Manganese	667	mg/kg	1.2	1	11/19/24 07:07	11/19/24 16:45	7439-96-5	
Nickel	17.3	mg/kg	3.3	1	11/19/24 07:07	11/19/24 16:45	7440-02-0	
Selenium	<0.83	mg/kg	0.83	1	11/19/24 07:07	11/19/24 16:45	7782-49-2	
Vanadium	15.4	mg/kg	4.2	1	11/19/24 07:07	11/19/24 16:45	7440-62-2	
Zinc	106	mg/kg	1.7	1	11/19/24 07:07	11/19/24 16:45	7440-66-6	
Percent Moisture		Analytical Method: ASTM D2216-05M Pace Analytical Services - Melville						
Percent Moisture	49.4	%	0.10	1		11/13/24 07:41		
TOC via Lloyd Kahn		Analytical Method: Lloyd Kahn Pace Analytical Services - Green Bay						
Total Organic Carbon	67000	mg/kg	4010	1		11/14/24 21:46	7440-44-0	C4,M0

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321615

QC Batch: 371484

Analysis Method: EPA 6010D

QC Batch Method: EPA 3050B

Analysis Description: 6010D MET

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321615001, 70321615002

METHOD BLANK: 1943271

Matrix: Solid

Associated Lab Samples: 70321615001, 70321615002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	mg/kg	<8.9	8.9	11/19/24 16:16	
Antimony	mg/kg	<2.7	2.7	11/19/24 16:16	
Arsenic	mg/kg	<0.44	0.44	11/19/24 16:16	
Barium	mg/kg	<8.9	8.9	11/19/24 16:16	
Boron	mg/kg	<2.2	2.2	11/19/24 16:16	
Cadmium	mg/kg	<0.11	0.11	11/19/24 16:16	
Cobalt	mg/kg	<2.2	2.2	11/19/24 16:16	
Copper	mg/kg	<1.1	1.1	11/19/24 16:16	
Iron	mg/kg	<4.4	4.4	11/19/24 16:16	
Lead	mg/kg	<0.22	0.22	11/19/24 16:16	
Manganese	mg/kg	<0.67	0.67	11/19/24 16:16	
Nickel	mg/kg	<1.8	1.8	11/19/24 16:16	
Selenium	mg/kg	<0.44	0.44	11/19/24 16:16	
Vanadium	mg/kg	<2.2	2.2	11/19/24 16:16	
Zinc	mg/kg	<0.89	0.89	11/19/24 16:16	

LABORATORY CONTROL SAMPLE: 1943272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/kg	6110	6260	103	53-147	
Antimony	mg/kg	114	62.6	55	10-200	
Arsenic	mg/kg	280	285	102	80-120	
Barium	mg/kg	274	311	113	80-120	
Boron	mg/kg	206	226	109	69-189	
Cadmium	mg/kg	191	211	110	80-120	
Cobalt	mg/kg	73.5	81.1	110	80-120	
Copper	mg/kg	185	204	110	80-120	
Iron	mg/kg	5860	5950	101	58-142	
Lead	mg/kg	83.6	91.4	109	80-120	
Manganese	mg/kg	478	514	107	80-120	
Nickel	mg/kg	282	298	106	80-120	
Selenium	mg/kg	149	158	106	80-120	
Vanadium	mg/kg	92.8	101	109	80-120	
Zinc	mg/kg	150	161	108	80-120	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321615

MATRIX SPIKE SAMPLE: 1943274		70321208001	Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits	
Aluminum	mg/kg	24700	925	23500	-129	75-125	M1
Antimony	mg/kg	<4.4	74	63.4	82	75-125	
Arsenic	mg/kg	3.6	36.9	39.2	96	75-125	
Barium	mg/kg	237	36.9	261	64	75-125	M1
Boron	mg/kg	15.6	74	89.5	100	75-125	
Cadmium	mg/kg	1.2	36.9	39.4	103	75-125	
Cobalt	mg/kg	<3.7	36.9	40.3	104	75-125	
Copper	mg/kg	343	36.9	347	9	75-125	M1
Iron	mg/kg	6010	369	5840	-47	75-125	M1
Lead	mg/kg	21.2	36.9	57.4	98	75-125	
Manganese	mg/kg	189	36.9	206	45	75-125	M1
Nickel	mg/kg	12.7	36.9	48.1	96	75-125	
Selenium	mg/kg	5.9	36.9	43.7	102	75-125	
Vanadium	mg/kg	5.0	36.9	42.4	101	75-125	
Zinc	mg/kg	735	36.9	697	-103	75-125	M1

SAMPLE DUPLICATE: 1943273

Parameter	Units	70321208001	Dup	RPD	Qualifiers
		Result	Result		
Aluminum	mg/kg	24700	20900	17	
Antimony	mg/kg	<4.4	<4.4		
Arsenic	mg/kg	3.6	2.9	24	D6
Barium	mg/kg	237	206	14	
Boron	mg/kg	15.6	19.2	21	D6
Cadmium	mg/kg	1.2	1.1	5	
Cobalt	mg/kg	<3.7	<3.6		
Copper	mg/kg	343	305	12	
Iron	mg/kg	6010	5230	14	
Lead	mg/kg	21.2	17.4	19	
Manganese	mg/kg	189	162	15	
Nickel	mg/kg	12.7	11.6	9	
Selenium	mg/kg	5.9	5.0	16	
Vanadium	mg/kg	5.0	4.4	13	
Zinc	mg/kg	735	635	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321615

QC Batch: 370525

Analysis Method: ASTM D2216-05M

QC Batch Method: ASTM D2216-05M

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321615001, 70321615002

SAMPLE DUPLICATE: 1937418

Parameter	Units	70321615001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	38.3	36.8	4	

SAMPLE DUPLICATE: 1937419

Parameter	Units	70321615002 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	49.4	54.2	9	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321615

QC Batch: 490280

Analysis Method: Lloyd Kahn

QC Batch Method: Lloyd Kahn

Analysis Description: Lloyd Kahn TOC

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 70321615001, 70321615002

METHOD BLANK: 2807686

Matrix: Solid

Associated Lab Samples: 70321615001, 70321615002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/kg	<100	100	11/14/24 21:14	

LABORATORY CONTROL SAMPLE: 2807687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/kg	2000	1960	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2807688 2807689

Parameter	Units	70321615002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Total Organic Carbon	mg/kg	67000	21900	22700	104000	98100	168	137	80-120	6	M0

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QUALIFIERS

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321615

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 371535

- [1] The post digestion spike for sample 70321208001 (PDS 1943485) did not meet acceptance criteria for Silver, Aluminum, Barium, Calcium, Copper, Iron, Magnesium, Manganese and Zinc.
- [2] The serial dilution for sample 70321208001 (SD 1943484) did not meet acceptance criteria for Silver, Beryllium, Cobalt, Potassium, Antimony and Thallium.

ANALYTE QUALIFIERS

- C4 Sample container did not meet EPA or method requirements.
- D6 The precision between the sample and sample duplicate exceeded laboratory control limits.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OPERATIONAL WELLS 11/11
Pace Project No.: 70321615

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70321615001	WALL UP	EPA 3050B	371484	EPA 6010D	371535
70321615002	WALL DOWN	EPA 3050B	371484	EPA 6010D	371535
70321615001	WALL UP	ASTM D2216-05M	370525		
70321615002	WALL DOWN	ASTM D2216-05M	370525		
70321615001	WALL UP	Lloyd Kahn	490280		
70321615002	WALL DOWN	Lloyd Kahn	490280		

REPORT OF LABORATORY ANALYSIS



December 02, 2024

TJ Milo
Al Turi Landfill
73 Hartley Road
Goshen, NY 10924

RE: Project: CONDENSATE 11/11
Pace Project No.: 70321633

Dear TJ Milo:

Enclosed are the analytical results for sample(s) received by the laboratory on November 12, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kimberley M. Mack
kimberley.mack@pacelabs.com
516-370-6052
Project Manager

Enclosures

cc: Marc Colantuono
Diane Conroy, Tetra Tech



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CERTIFICATIONS

Project: CONDENSATE 11/11

Pace Project No.: 70321633

Pace Analytical Services, LLC - Melville, NY

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Texas Certification #: T104704582

Florida Certification #: E871198

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ANALYTICAL RESULTS

Project: CONDENSATE 11/11

Pace Project No.: 70321633

Sample: CONDENSATE		Lab ID: 70321633001		Collected: 11/11/24 11:10		Received: 11/12/24 07:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	62600	ug/L	830	1		11/14/24 14:32			
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Aluminum	5880	ug/L	200	1	11/14/24 07:09	11/14/24 14:32	7429-90-5		
Antimony	2070	ug/L	60.0	1	11/14/24 07:09	11/14/24 14:32	7440-36-0		
Arsenic	183	ug/L	10.0	1	11/14/24 07:09	11/14/24 14:32	7440-38-2		
Barium	<200	ug/L	200	1	11/14/24 07:09	11/14/24 14:32	7440-39-3		
Beryllium	<5.0	ug/L	5.0	1	11/14/24 07:09	11/14/24 14:32	7440-41-7		
Boron	<50.0	ug/L	50.0	1	11/14/24 07:09	11/14/24 14:32	7440-42-8		
Cadmium	16.8	ug/L	2.5	1	11/14/24 07:09	11/14/24 14:32	7440-43-9		
Calcium	21600	ug/L	200	1	11/14/24 07:09	11/14/24 14:32	7440-70-2		
Chromium	167000	ug/L	100	10	11/14/24 07:09	11/14/24 16:07	7440-47-3		
Cobalt	691	ug/L	50.0	1	11/14/24 07:09	11/14/24 14:32	7440-48-4		
Copper	37600	ug/L	25.0	1	11/14/24 07:09	11/14/24 14:32	7440-50-8		
Iron	908000	ug/L	1000	10	11/14/24 07:09	11/14/24 16:07	7439-89-6		
Lead	1770	ug/L	5.0	1	11/14/24 07:09	11/14/24 14:32	7439-92-1		
Magnesium	2110	ug/L	200	1	11/14/24 07:09	11/14/24 14:32	7439-95-4		
Manganese	17000	ug/L	10.0	1	11/14/24 07:09	11/14/24 14:32	7439-96-5		
Nickel	13800	ug/L	40.0	1	11/14/24 07:09	11/14/24 14:32	7440-02-0		
Potassium	<5000	ug/L	5000	1	11/14/24 07:09	11/14/24 14:32	7440-09-7		
Selenium	<10.0	ug/L	10.0	1	11/14/24 07:09	11/14/24 14:32	7782-49-2		
Silver	<10.0	ug/L	10.0	1	11/14/24 07:09	11/14/24 14:32	7440-22-4		
Sodium	<5000	ug/L	5000	1	11/14/24 07:09	11/14/24 14:32	7440-23-5		
Thallium	31.2	ug/L	10.0	1	11/14/24 07:09	11/14/24 14:32	7440-28-0		
Vanadium	420	ug/L	50.0	1	11/14/24 07:09	11/14/24 14:32	7440-62-2		
Zinc	27800	ug/L	20.0	1	11/14/24 07:09	11/14/24 14:32	7440-66-6		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Melville							
Mercury	86.0	ug/L	2.0	10	11/18/24 07:15	11/18/24 17:15	7439-97-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1,2-Tetrachloroethane	<5.0	ug/L	5.0	1		11/14/24 18:51	630-20-6		
1,1,1-Trichloroethane	<5.0	ug/L	5.0	1		11/14/24 18:51	71-55-6		
1,1,2,2-Tetrachloroethane	<5.0	ug/L	5.0	1		11/14/24 18:51	79-34-5		
1,1,2-Trichloroethane	<5.0	ug/L	5.0	1		11/14/24 18:51	79-00-5		
1,1-Dichloroethane	<5.0	ug/L	5.0	1		11/14/24 18:51	75-34-3		
1,1-Dichloroethene	<5.0	ug/L	5.0	1		11/14/24 18:51	75-35-4		
1,1-Dichloropropene	<5.0	ug/L	5.0	1		11/14/24 18:51	563-58-6		
1,2,3-Trichloropropane	<5.0	ug/L	5.0	1		11/14/24 18:51	96-18-4		
1,2-Dibromo-3-chloropropane	<5.0	ug/L	5.0	1		11/14/24 18:51	96-12-8	v3	
1,2-Dibromoethane (EDB)	<5.0	ug/L	5.0	1		11/14/24 18:51	106-93-4		
1,2-Dichlorobenzene	5.0	ug/L	5.0	1		11/14/24 18:51	95-50-1		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CONDENSATE 11/11

Pace Project No.: 70321633

Sample: CONDENSATE		Lab ID: 70321633001		Collected: 11/11/24 11:10		Received: 11/12/24 07:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,2-Dichloroethane	<5.0	ug/L	5.0	1		11/14/24 18:51	107-06-2		
1,2-Dichloropropane	<5.0	ug/L	5.0	1		11/14/24 18:51	78-87-5		
1,3-Dichlorobenzene	<5.0	ug/L	5.0	1		11/14/24 18:51	541-73-1		
1,3-Dichloropropane	<5.0	ug/L	5.0	1		11/14/24 18:51	142-28-9		
1,4-Dichlorobenzene	17.3	ug/L	5.0	1		11/14/24 18:51	106-46-7		
2,2-Dichloropropane	<5.0	ug/L	5.0	1		11/14/24 18:51	594-20-7		
2-Butanone (MEK)	7.2	ug/L	5.0	1		11/14/24 18:51	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		11/14/24 18:51	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		11/14/24 18:51	108-10-1		
Acetone	44.4	ug/L	5.0	1		11/14/24 18:51	67-64-1	v1	
Acetonitrile	<5.0	ug/L	5.0	1		11/14/24 18:51	75-05-8		
Acrolein	<5.0	ug/L	5.0	1		11/14/24 18:51	107-02-8	L1	
Acrylonitrile	<5.0	ug/L	5.0	1		11/14/24 18:51	107-13-1		
Allyl chloride	<5.0	ug/L	5.0	1		11/14/24 18:51	107-05-1		
Benzene	5.0	ug/L	5.0	1		11/14/24 18:51	71-43-2		
Bromochloromethane	<5.0	ug/L	5.0	1		11/14/24 18:51	74-97-5		
Bromodichloromethane	<5.0	ug/L	5.0	1		11/14/24 18:51	75-27-4		
Bromoform	<5.0	ug/L	5.0	1		11/14/24 18:51	75-25-2		
Bromomethane	<5.0	ug/L	5.0	1		11/14/24 18:51	74-83-9		
Carbon disulfide	5.0	ug/L	5.0	1		11/14/24 18:51	75-15-0		
Carbon tetrachloride	<5.0	ug/L	5.0	1		11/14/24 18:51	56-23-5		
Chlorobenzene	5.0	ug/L	5.0	1		11/14/24 18:51	108-90-7		
Chloroethane	<5.0	ug/L	5.0	1		11/14/24 18:51	75-00-3		
Chloroform	<5.0	ug/L	5.0	1		11/14/24 18:51	67-66-3		
Chloromethane	<5.0	ug/L	5.0	1		11/14/24 18:51	74-87-3		
Chloroprene	<5.0	ug/L	5.0	1		11/14/24 18:51	126-99-8		
Dibromochloromethane	<5.0	ug/L	5.0	1		11/14/24 18:51	124-48-1		
Dibromomethane	<5.0	ug/L	5.0	1		11/14/24 18:51	74-95-3		
Dichlorodifluoromethane	<5.0	ug/L	5.0	1		11/14/24 18:51	75-71-8		
Ethyl methacrylate	<5.0	ug/L	5.0	1		11/14/24 18:51	97-63-2		
Ethylbenzene	12.3	ug/L	5.0	1		11/14/24 18:51	100-41-4		
Iodomethane	<5.0	ug/L	5.0	1		11/14/24 18:51	74-88-4	IC	
Isobutanol	<25.0	ug/L	25.0	1		11/14/24 18:51	78-83-1		
Methacrylonitrile	<5.0	ug/L	5.0	1		11/14/24 18:51	126-98-7		
Methyl methacrylate	<5.0	ug/L	5.0	1		11/14/24 18:51	80-62-6		
Methylene Chloride	<5.0	ug/L	5.0	1		11/14/24 18:51	75-09-2		
Propionitrile	<5.0	ug/L	5.0	1		11/14/24 18:51	107-12-0		
Styrene	<5.0	ug/L	5.0	1		11/14/24 18:51	100-42-5		
Tetrachloroethene	<5.0	ug/L	5.0	1		11/14/24 18:51	127-18-4		
Toluene	18.0	ug/L	5.0	1		11/14/24 18:51	108-88-3		
Trichloroethene	<5.0	ug/L	5.0	1		11/14/24 18:51	79-01-6		
Trichlorofluoromethane	<5.0	ug/L	5.0	1		11/14/24 18:51	75-69-4		
Vinyl acetate	<5.0	ug/L	5.0	1		11/14/24 18:51	108-05-4		
Vinyl chloride	<5.0	ug/L	5.0	1		11/14/24 18:51	75-01-4		
Xylene (Total)	24.0	ug/L	5.0	1		11/14/24 18:51	1330-20-7		
cis-1,2-Dichloroethene	<5.0	ug/L	5.0	1		11/14/24 18:51	156-59-2		

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ANALYTICAL RESULTS

Project: CONDENSATE 11/11

Pace Project No.: 70321633

Sample: CONDENSATE		Lab ID: 70321633001		Collected: 11/11/24 11:10		Received: 11/12/24 07:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
cis-1,3-Dichloropropene		<5.0	ug/L	5.0	1		11/14/24 18:51	10061-01-5	
trans-1,2-Dichloroethene		<5.0	ug/L	5.0	1		11/14/24 18:51	156-60-5	
trans-1,3-Dichloropropene		<5.0	ug/L	5.0	1		11/14/24 18:51	10061-02-6	
trans-1,4-Dichloro-2-butene		<5.0	ug/L	5.0	1		11/14/24 18:51	110-57-6	
Surrogates									
1,2-Dichloroethane-d4 (S)		94	%	80-120	1		11/14/24 18:51	17060-07-0	
4-Bromofluorobenzene (S)		94	%	80-120	1		11/14/24 18:51	460-00-4	
Toluene-d8 (S)		105	%	80-120	1		11/14/24 18:51	2037-26-5	
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville							
Turbidity		85.0	NTU	25.0	25		11/12/24 20:00		
2120B W Apparent Color		Analytical Method: SM22 2120B Pace Analytical Services - Melville							
Apparent Color		400	units	125	25		11/12/24 19:53		
pH		4.1	Std. Units	0.10	25		11/12/24 19:53		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3		<1.0	mg/L	1.0	1		11/25/24 09:24		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids		4600	mg/L	1250	1		11/18/24 13:47		
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand		757	mg/L	200	1	11/18/24 03:10	11/18/24 05:31		
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day		<100	mg/L	100	50	11/12/24 14:53	11/17/24 08:16		
7196 Chromium, Hexavalent		Analytical Method: EPA 7196A Pace Analytical Services - Melville							
Chromium, Hexavalent		<0.020	mg/L	0.020	1		11/12/24 10:23	18540-29-9	M1
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide		<0.50	mg/L	0.50	1		11/25/24 03:51	24959-67-9	
Chloride		<2.0	mg/L	2.0	1		11/25/24 03:51	16887-00-6	
Sulfate		3970	mg/L	250	50		11/25/24 18:07	14808-79-8	

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ANALYTICAL RESULTS

Project: CONDENSATE 11/11

Pace Project No.: 70321633

Sample: CONDENSATE	Lab ID: 70321633001	Collected: 11/11/24 11:10	Received: 11/12/24 07:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	20.4	mg/L	2.5	1	11/14/24 03:39	11/14/24 12:22	7727-37-9	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	18.8	mg/L	5.0	50		11/17/24 12:13	7664-41-7	
9060A TOC as NPOC	Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	59.9	mg/L	5.0	5		11/18/24 18:04	7440-44-0	
Total Organic Carbon	59.0	mg/L	5.0	5		11/18/24 18:04	7440-44-0	
Total Organic Carbon	58.7	mg/L	5.0	5		11/18/24 18:04	7440-44-0	
Total Organic Carbon	59.1	mg/L	5.0	5		11/18/24 18:04	7440-44-0	
Mean Total Organic Carbon	59.2	mg/L	5.0	5		11/18/24 18:04	7440-44-0	

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QUALITY CONTROL DATA

Project: CONDENSATE 11/11

Pace Project No.: 70321633

QC Batch: 371251

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321633001

METHOD BLANK: 1942083

Matrix: Water

Associated Lab Samples: 70321633001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	11/18/24 16:49	

LABORATORY CONTROL SAMPLE & LCSD: 1942084

1942085

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ug/L	1	1.1	1.1	111	114	80-120	2	20	

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QUALITY CONTROL DATA

Project: CONDENSATE 11/11

Pace Project No.: 70321633

QC Batch: 370750

Analysis Method: EPA 6010D

QC Batch Method: EPA 3005A

Analysis Description: 6010D MET Water

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321633001

METHOD BLANK: 1938683

Matrix: Water

Associated Lab Samples: 70321633001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	11/14/24 13:50	
Antimony	ug/L	<60.0	60.0	11/14/24 13:50	
Arsenic	ug/L	<10.0	10.0	11/14/24 13:50	
Barium	ug/L	<200	200	11/14/24 13:50	
Beryllium	ug/L	<5.0	5.0	11/14/24 13:50	
Boron	ug/L	<50.0	50.0	11/14/24 13:50	
Cadmium	ug/L	<2.5	2.5	11/14/24 13:50	
Calcium	ug/L	<200	200	11/14/24 13:50	
Chromium	ug/L	<10.0	10.0	11/14/24 13:50	
Cobalt	ug/L	<50.0	50.0	11/14/24 13:50	
Copper	ug/L	<25.0	25.0	11/14/24 13:50	
Iron	ug/L	<100	100	11/14/24 13:50	
Lead	ug/L	<5.0	5.0	11/14/24 13:50	
Magnesium	ug/L	<200	200	11/14/24 13:50	
Manganese	ug/L	<10.0	10.0	11/14/24 13:50	
Nickel	ug/L	<40.0	40.0	11/14/24 13:50	
Potassium	ug/L	<5000	5000	11/14/24 13:50	
Selenium	ug/L	<10.0	10.0	11/14/24 13:50	
Silver	ug/L	<10.0	10.0	11/14/24 13:50	
Sodium	ug/L	<5000	5000	11/14/24 13:50	
Thallium	ug/L	<10.0	10.0	11/14/24 13:50	
Vanadium	ug/L	<50.0	50.0	11/14/24 13:50	
Zinc	ug/L	<20.0	20.0	11/14/24 13:50	

LABORATORY CONTROL SAMPLE: 1938684

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	25000	24400	98	80-120	
Antimony	ug/L	1000	973	97	80-120	
Arsenic	ug/L	500	496	99	80-120	
Barium	ug/L	500	499	100	80-120	
Beryllium	ug/L	500	495	99	80-120	
Boron	ug/L	1000	958	96	80-120	
Cadmium	ug/L	500	479	96	80-120	
Calcium	ug/L	25000	24300	97	80-120	
Chromium	ug/L	500	479	96	80-120	
Cobalt	ug/L	500	477	95	80-120	
Copper	ug/L	500	477	95	80-120	
Iron	ug/L	12500	12300	98	80-120	

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QUALITY CONTROL DATA

Project: CONDENSATE 11/11

Pace Project No.: 70321633

LABORATORY CONTROL SAMPLE: 1938684

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	479	96	80-120	
Magnesium	ug/L	25000	24100	96	80-120	
Manganese	ug/L	500	481	96	80-120	
Nickel	ug/L	500	483	97	80-120	
Potassium	ug/L	25000	24800	99	80-120	
Selenium	ug/L	500	498	100	80-120	
Silver	ug/L	250	243	97	80-120	
Sodium	ug/L	25000	24700	99	80-120	
Thallium	ug/L	250	244	98	80-120	
Vanadium	ug/L	500	483	97	80-120	
Zinc	ug/L	500	469	94	80-120	

MATRIX SPIKE SAMPLE: 1938686

Parameter	Units	70320854008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	12500	12800	102	75-125	
Antimony	ug/L	<60.0	1000	1020	101	75-125	
Arsenic	ug/L	<10.0	500	529	106	75-125	
Barium	ug/L	<200	500	533	105	75-125	
Beryllium	ug/L	<5.0	500	538	108	75-125	
Boron	ug/L	85.3	1000	1090	100	75-125	
Cadmium	ug/L	<2.5	500	504	101	75-125	
Calcium	ug/L	56900	12500	70300	107	75-125	
Chromium	ug/L	187	500	711	105	75-125	
Cobalt	ug/L	<50.0	500	502	100	75-125	
Copper	ug/L	7.8J	500	510	100	75-125	
Iron	ug/L	1100	5000	6120	100	75-125	
Lead	ug/L	<5.0	500	503	101	75-125	
Magnesium	ug/L	35400	12500	48400	104	75-125	
Manganese	ug/L	15.8	500	520	101	75-125	
Nickel	ug/L	89.0	500	567	96	75-125	
Potassium	ug/L	3120J	12500	16400	106	75-125	
Selenium	ug/L	<10.0	500	526	105	75-125	
Silver	ug/L	<10.0	250	274	109	75-125	
Sodium	ug/L	65100	12500	79000	111	75-125	
Thallium	ug/L	<10.0	250	258	103	75-125	
Vanadium	ug/L	<50.0	500	519	103	75-125	
Zinc	ug/L	76.0	500	567	98	75-125	

SAMPLE DUPLICATE: 1938685

Parameter	Units	70320854008 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	<200		
Antimony	ug/L	<60.0	<60.0		

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QUALITY CONTROL DATA

Project: CONDENSATE 11/11

Pace Project No.: 70321633

SAMPLE DUPLICATE: 1938685

Parameter	Units	70320854008 Result	Dup Result	RPD	Qualifiers
Arsenic	ug/L	<10.0	<10.0		
Barium	ug/L	<200	<200		
Beryllium	ug/L	<5.0	<5.0		
Boron	ug/L	85.3	87.3	2	
Cadmium	ug/L	<2.5	<2.5		
Calcium	ug/L	56900	58400	3	
Chromium	ug/L	187	199	6	
Cobalt	ug/L	<50.0	<50.0		
Copper	ug/L	7.8J	<25.0		
Iron	ug/L	1100	1130	3	
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	35400	36500	3	
Manganese	ug/L	15.8	16.0	1	
Nickel	ug/L	89.0	91.8	3	
Potassium	ug/L	3120J	<5000		
Selenium	ug/L	<10.0	<10.0		
Silver	ug/L	<10.0	<10.0		
Sodium	ug/L	65100	67100	3	
Thallium	ug/L	<10.0	<10.0		
Vanadium	ug/L	<50.0	<50.0		
Zinc	ug/L	76.0	79.0	4	

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QUALITY CONTROL DATA

Project: CONDENSATE 11/11
Pace Project No.: 70321633

QC Batch:	370889	Analysis Method:	EPA 8260C/5030C
QC Batch Method:	EPA 8260C/5030C	Analysis Description:	8260 MSV
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70321633001

METHOD BLANK: 1939607 Matrix: Water

Associated Lab Samples: 70321633001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<5.0	5.0	11/14/24 14:08	
1,1,1-Trichloroethane	ug/L	<5.0	5.0	11/14/24 14:08	
1,1,2,2-Tetrachloroethane	ug/L	<5.0	5.0	11/14/24 14:08	
1,1,2-Trichloroethane	ug/L	<5.0	5.0	11/14/24 14:08	
1,1-Dichloroethane	ug/L	<5.0	5.0	11/14/24 14:08	
1,1-Dichloroethene	ug/L	<5.0	5.0	11/14/24 14:08	
1,1-Dichloropropene	ug/L	<5.0	5.0	11/14/24 14:08	
1,2,3-Trichloropropane	ug/L	<5.0	5.0	11/14/24 14:08	
1,2-Dibromo-3-chloropropane	ug/L	<5.0	5.0	11/14/24 14:08	v3
1,2-Dibromoethane (EDB)	ug/L	<5.0	5.0	11/14/24 14:08	
1,2-Dichlorobenzene	ug/L	<5.0	5.0	11/14/24 14:08	
1,2-Dichloroethane	ug/L	<5.0	5.0	11/14/24 14:08	
1,2-Dichloropropane	ug/L	<5.0	5.0	11/14/24 14:08	
1,3-Dichlorobenzene	ug/L	<5.0	5.0	11/14/24 14:08	
1,3-Dichloropropane	ug/L	<5.0	5.0	11/14/24 14:08	
1,4-Dichlorobenzene	ug/L	<5.0	5.0	11/14/24 14:08	
2,2-Dichloropropane	ug/L	<5.0	5.0	11/14/24 14:08	
2-Butanone (MEK)	ug/L	<5.0	5.0	11/14/24 14:08	
2-Hexanone	ug/L	<5.0	5.0	11/14/24 14:08	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	11/14/24 14:08	
Acetone	ug/L	<5.0	5.0	11/14/24 14:08	
Acetonitrile	ug/L	<5.0	5.0	11/14/24 14:08	
Acrolein	ug/L	<5.0	5.0	11/14/24 14:08	
Acrylonitrile	ug/L	<5.0	5.0	11/14/24 14:08	
Allyl chloride	ug/L	<5.0	5.0	11/14/24 14:08	
Benzene	ug/L	<5.0	5.0	11/14/24 14:08	
Bromochloromethane	ug/L	<5.0	5.0	11/14/24 14:08	
Bromodichloromethane	ug/L	<5.0	5.0	11/14/24 14:08	
Bromoform	ug/L	<5.0	5.0	11/14/24 14:08	
Bromomethane	ug/L	<5.0	5.0	11/14/24 14:08	
Carbon disulfide	ug/L	<5.0	5.0	11/14/24 14:08	
Carbon tetrachloride	ug/L	<5.0	5.0	11/14/24 14:08	
Chlorobenzene	ug/L	<5.0	5.0	11/14/24 14:08	
Chloroethane	ug/L	<5.0	5.0	11/14/24 14:08	
Chloroform	ug/L	<5.0	5.0	11/14/24 14:08	
Chloromethane	ug/L	<5.0	5.0	11/14/24 14:08	
Chloroprene	ug/L	<5.0	5.0	11/14/24 14:08	
cis-1,2-Dichloroethene	ug/L	<5.0	5.0	11/14/24 14:08	
cis-1,3-Dichloropropene	ug/L	<5.0	5.0	11/14/24 14:08	
Dibromochloromethane	ug/L	<5.0	5.0	11/14/24 14:08	

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QUALITY CONTROL DATA

Project: CONDENSATE 11/11
Pace Project No.: 70321633

METHOD BLANK: 1939607

Matrix: Water

Associated Lab Samples: 70321633001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	<5.0	5.0	11/14/24 14:08	
Dichlorodifluoromethane	ug/L	<5.0	5.0	11/14/24 14:08	
Ethyl methacrylate	ug/L	<5.0	5.0	11/14/24 14:08	
Ethylbenzene	ug/L	<5.0	5.0	11/14/24 14:08	
Iodomethane	ug/L	<5.0	5.0	11/14/24 14:08	IC
Isobutanol	ug/L	<25.0	25.0	11/14/24 14:08	
Methacrylonitrile	ug/L	<5.0	5.0	11/14/24 14:08	
Methyl methacrylate	ug/L	<5.0	5.0	11/14/24 14:08	
Methylene Chloride	ug/L	<5.0	5.0	11/14/24 14:08	
Propionitrile	ug/L	<5.0	5.0	11/14/24 14:08	
Styrene	ug/L	<5.0	5.0	11/14/24 14:08	
Tetrachloroethene	ug/L	<5.0	5.0	11/14/24 14:08	
Toluene	ug/L	<5.0	5.0	11/14/24 14:08	
trans-1,2-Dichloroethene	ug/L	<5.0	5.0	11/14/24 14:08	
trans-1,3-Dichloropropene	ug/L	<5.0	5.0	11/14/24 14:08	
trans-1,4-Dichloro-2-butene	ug/L	<5.0	5.0	11/14/24 14:08	
Trichloroethene	ug/L	<5.0	5.0	11/14/24 14:08	
Trichlorofluoromethane	ug/L	<5.0	5.0	11/14/24 14:08	
Vinyl acetate	ug/L	<5.0	5.0	11/14/24 14:08	
Vinyl chloride	ug/L	<5.0	5.0	11/14/24 14:08	
Xylene (Total)	ug/L	<5.0	5.0	11/14/24 14:08	
1,2-Dichloroethane-d4 (S)	%	94	80-120	11/14/24 14:08	
4-Bromofluorobenzene (S)	%	98	80-120	11/14/24 14:08	
Toluene-d8 (S)	%	106	80-120	11/14/24 14:08	

LABORATORY CONTROL SAMPLE: 1939608

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	55.8	112	70-119	
1,1,1-Trichloroethane	ug/L	50	49.3	99	72-122	
1,1,2,2-Tetrachloroethane	ug/L	50	45.1	90	71-118	
1,1,2-Trichloroethane	ug/L	50	50.4	101	83-122	
1,1-Dichloroethane	ug/L	50	44.8	90	72-131	
1,1-Dichloroethene	ug/L	50	35.5	71	71-128	
1,1-Dichloropropene	ug/L	50	52.2	104	78-126	
1,2,3-Trichloropropane	ug/L	50	45.1	90	70-114	
1,2-Dibromo-3-chloropropane	ug/L	50	38.5	77	40-134 v3	
1,2-Dibromoethane (EDB)	ug/L	50	51.4	103	81-119	
1,2-Dichlorobenzene	ug/L	50	42.9	86	75-112	
1,2-Dichloroethane	ug/L	50	44.2	88	74-118	
1,2-Dichloropropane	ug/L	50	50.2	100	75-121	
1,3-Dichlorobenzene	ug/L	50	52.3	105	72-119	
1,3-Dichloropropane	ug/L	50	52.5	105	79-120	
1,4-Dichlorobenzene	ug/L	50	50.8	102	74-114	

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QUALITY CONTROL DATA

Project: CONDENSATE 11/11

Pace Project No.: 70321633

LABORATORY CONTROL SAMPLE: 1939608

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	42.7	85	63-140	
2-Butanone (MEK)	ug/L	50	47.4	95	43-175	
2-Hexanone	ug/L	50	61.4	123	55-141	
4-Methyl-2-pentanone (MIBK)	ug/L	50	49.0	98	64-131	
Acetone	ug/L	50	78.0	156	11-200	v1
Acetonitrile	ug/L	250	220	88	39-153	
Acrolein	ug/L	50	214	429	10-200	E,L1,v1
Acrylonitrile	ug/L	50	43.4	87	58-156	
Allyl chloride	ug/L	50	41.9	84	60-138	
Benzene	ug/L	50	50.3	101	74-121	
Bromochloromethane	ug/L	50	49.6	99	72-133	
Bromodichloromethane	ug/L	50	50.2	100	76-121	
Bromoform	ug/L	50	58.6	117	60-135	
Bromomethane	ug/L	50	32.7	65	10-200	
Carbon disulfide	ug/L	50	37.9	76	67-129	
Carbon tetrachloride	ug/L	50	51.7	103	69-129	
Chlorobenzene	ug/L	50	55.2	110	82-113	
Chloroethane	ug/L	50	39.3	79	59-140	v1
Chloroform	ug/L	50	46.8	94	78-126	
Chloromethane	ug/L	50	28.3	57	40-136	
Chloroprene	ug/L	50	43.7	87	59-134	
cis-1,2-Dichloroethene	ug/L	50	45.7	91	78-128	
cis-1,3-Dichloropropene	ug/L	50	48.3	97	71-127	
Dibromochloromethane	ug/L	50	55.6	111	70-125	
Dibromomethane	ug/L	50	52.2	104	87-115	
Dichlorodifluoromethane	ug/L	50	23.4	47	22-145	
Ethyl methacrylate	ug/L	50	46.0	92	77-124	
Ethylbenzene	ug/L	50	53.3	107	79-113	
Iodomethane	ug/L	50	35.3	71	10-186	IC
Isobutanol	ug/L	250	199	79	20-147	
Methacrylonitrile	ug/L	50	44.6	89	69-130	
Methyl methacrylate	ug/L	50	48.3	97	77-122	
Methylene Chloride	ug/L	50	44.9	90	70-127	
Propionitrile	ug/L	50	42.1	84	45-150	
Styrene	ug/L	50	55.5	111	77-120	
Tetrachloroethene	ug/L	50	58.3	117	76-123	
Toluene	ug/L	50	51.6	103	82-118	
trans-1,2-Dichloroethene	ug/L	50	42.6	85	73-130	
trans-1,3-Dichloropropene	ug/L	50	49.2	98	66-129	
trans-1,4-Dichloro-2-butene	ug/L	50	44.9	90	49-130	
Trichloroethene	ug/L	50	50.7	101	82-123	
Trichlorofluoromethane	ug/L	50	42.8	86	72-132	v1
Vinyl acetate	ug/L	50	44.6	89	57-138	
Vinyl chloride	ug/L	50	34.0	68	51-144	v1
Xylene (Total)	ug/L	150	161	107	81-112	
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			104	80-120	

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QUALITY CONTROL DATA

Project: CONDENSATE 11/11

Pace Project No.: 70321633

LABORATORY CONTROL SAMPLE: 1939608

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			107	80-120	

SAMPLE DUPLICATE: 1941065

Parameter	Units	70321937001 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	<5.0		
1,1,1-Trichloroethane	ug/L	<1.0	<5.0		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<5.0		
1,1,2-Trichloroethane	ug/L	<1.0	<5.0		
1,1-Dichloroethane	ug/L	<1.0	<5.0		
1,1-Dichloroethene	ug/L	<1.0	<5.0		
1,1-Dichloropropene	ug/L	<1.0	<5.0		
1,2,3-Trichloropropane	ug/L	<1.0	<5.0		
1,2-Dibromo-3-chloropropane	ug/L	<1.0	<5.0		v3
1,2-Dibromoethane (EDB)	ug/L	<1.0	<5.0		
1,2-Dichlorobenzene	ug/L	<1.0	<5.0		
1,2-Dichloroethane	ug/L	<1.0	<5.0		
1,2-Dichloropropane	ug/L	<1.0	<5.0		
1,3-Dichlorobenzene	ug/L	<1.0	<5.0		
1,3-Dichloropropane	ug/L	<1.0	<5.0		
1,4-Dichlorobenzene	ug/L	<1.0	<5.0		
2,2-Dichloropropane	ug/L	<1.0	<5.0		
2-Butanone (MEK)	ug/L	<5.0	<5.0		
2-Hexanone	ug/L	<5.0	<5.0		
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	<5.0	<5.0		v1
Acetonitrile	ug/L	<5.0	<5.0		
Acrolein	ug/L	<1.0	<5.0		
Acrylonitrile	ug/L	<1.0	<5.0		
Allyl chloride	ug/L	<4.0	<5.0		
Benzene	ug/L	<1.0	<5.0		
Bromochloromethane	ug/L	<1.0	<5.0		
Bromodichloromethane	ug/L	<1.0	<5.0		
Bromoform	ug/L	<1.0	<5.0		
Bromomethane	ug/L	<1.0	<5.0		
Carbon disulfide	ug/L	<1.0	<5.0		
Carbon tetrachloride	ug/L	<1.0	<5.0		
Chlorobenzene	ug/L	<1.0	<5.0		
Chloroethane	ug/L	<1.0	<5.0		
Chloroform	ug/L	<1.0	<5.0		
Chloromethane	ug/L	<1.0	<5.0		
Chloroprene	ug/L	<1.0	<5.0		
cis-1,2-Dichloroethene	ug/L	<1.0	<5.0		
cis-1,3-Dichloropropene	ug/L	<1.0	<5.0		
Dibromochloromethane	ug/L	<1.0	<5.0		

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QUALITY CONTROL DATA

Project: CONDENSATE 11/11

Pace Project No.: 70321633

SAMPLE DUPLICATE: 1941065

Parameter	Units	70321937001 Result	Dup Result	RPD	Qualifiers
Dibromomethane	ug/L	<1.0	<5.0		
Dichlorodifluoromethane	ug/L	<1.0	<5.0		
Ethyl methacrylate	ug/L	<1.0	<5.0		
Ethylbenzene	ug/L	<1.0	<5.0		
Iodomethane	ug/L	<4.0	<5.0		IC
Isobutanol	ug/L	<20.0	<25.0		
Methacrylonitrile	ug/L	<1.0	<5.0		
Methyl methacrylate	ug/L	<1.0	<5.0		
Methylene Chloride	ug/L	<1.0	<5.0		
Propionitrile	ug/L	<4.0	<5.0		
Styrene	ug/L	<1.0	<5.0		
Tetrachloroethene	ug/L	3.2	5.0	9	
Toluene	ug/L	<1.0	<5.0		
trans-1,2-Dichloroethene	ug/L	<1.0	<5.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<5.0		
trans-1,4-Dichloro-2-butene	ug/L	<1.0	<5.0		
Trichloroethene	ug/L	<1.0	<5.0		
Trichlorofluoromethane	ug/L	<1.0	<5.0		
Vinyl acetate	ug/L	<1.0	<5.0		
Vinyl chloride	ug/L	<1.0	<5.0		
Xylene (Total)	ug/L	<3.0	<5.0		
1,2-Dichloroethane-d4 (S)	%	93	99		
4-Bromofluorobenzene (S)	%	98	95		
Toluene-d8 (S)	%	106	106		

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QUALITY CONTROL DATA

Project: CONDENSATE 11/11

Pace Project No.: 70321633

QC Batch: 370465

QC Batch Method: EPA 180.1

Analysis Method: EPA 180.1

Analysis Description: 180.1 Turbidity

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321633001

METHOD BLANK: 1937181

Matrix: Water

Associated Lab Samples: 70321633001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Turbidity	NTU	<1.0	1.0	11/12/24 19:56	

LABORATORY CONTROL SAMPLE: 1937182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	10	9.0	90	90-110	

SAMPLE DUPLICATE: 1937183

Parameter	Units	70321633001 Result	Dup Result	RPD	Qualifiers
Turbidity	NTU	85.0	85.0	0	

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QUALITY CONTROL DATA

Project: CONDENSATE 11/11

Pace Project No.: 70321633

QC Batch: 370463

Analysis Method: SM22 2120B

QC Batch Method: SM22 2120B

Analysis Description: 2120B Color

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321633001

METHOD BLANK: 1937175

Matrix: Water

Associated Lab Samples: 70321633001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Apparent Color	units	<5.0	5.0	11/12/24 19:47	

LABORATORY CONTROL SAMPLE: 1937176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Apparent Color	units	40	40.0	100	90-110	

SAMPLE DUPLICATE: 1937177

Parameter	Units	70321633001 Result	Dup Result	RPD	Qualifiers
Apparent Color	units	400	400	0	
pH	Std. Units	4.1	4.1	0	

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QUALITY CONTROL DATA

Project: CONDENSATE 11/11

Pace Project No.: 70321633

QC Batch: 372490

Analysis Method: SM22 2320B

QC Batch Method: SM22 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321633001

METHOD BLANK: 1949241

Matrix: Water

Associated Lab Samples: 70321633001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	<1.0	1.0	11/25/24 09:08	

LABORATORY CONTROL SAMPLE: 1949242

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	25	25.9	103	85-115	

MATRIX SPIKE SAMPLE: 1949252

Parameter	Units	70320854010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	257	50	307	99	75-125	

SAMPLE DUPLICATE: 1949251

Parameter	Units	70320854010 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	257	254	1	

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QUALITY CONTROL DATA

Project: CONDENSATE 11/11
Pace Project No.: 70321633

QC Batch: 371337 Analysis Method: SM22 2540C
QC Batch Method: SM22 2540C Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321633001

METHOD BLANK: 1942405 Matrix: Water
Associated Lab Samples: 70321633001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	11/18/24 13:47	

LABORATORY CONTROL SAMPLE: 1942406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	514	103	85-115	

MATRIX SPIKE SAMPLE: 1942408

Parameter	Units	70321807002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	333	300	645	104	75-125	

MATRIX SPIKE SAMPLE: 1942410

Parameter	Units	70321980002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	69.0	300	369	100	75-125	

SAMPLE DUPLICATE: 1942407

Parameter	Units	70321807002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	333	338	1	

SAMPLE DUPLICATE: 1942409

Parameter	Units	70321980002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	69.0	68.0	1	

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QUALITY CONTROL DATA

Project: CONDENSATE 11/11
Pace Project No.: 70321633

QC Batch:	371235	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70321633001

METHOD BLANK: 1942034
Associated Lab Samples: 70321633001

Matrix: Water

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<10.0	10.0	11/18/24 05:28	

LABORATORY CONTROL SAMPLE: 1942035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	508	102	90-110	

MATRIX SPIKE SAMPLE: 1942036

Parameter	Units	70322141001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	35.7	1000	1030	99	90-110	

MATRIX SPIKE SAMPLE: 1942038

Parameter	Units	70321807001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	55.0	1000	1030	97	90-110	

SAMPLE DUPLICATE: 1942037

Parameter	Units	70322141001 Result	Dup Result	RPD	Qualifiers
Chemical Oxygen Demand	mg/L	35.7	31.4	13	

SAMPLE DUPLICATE: 1942039

Parameter	Units	70321807001 Result	Dup Result	RPD	Qualifiers
Chemical Oxygen Demand	mg/L	55.0	48.6	12	

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QUALITY CONTROL DATA

Project: CONDENSATE 11/11

Pace Project No.: 70321633

QC Batch: 370418

Analysis Method: SM22 5210B

QC Batch Method: SM22 5210B

Analysis Description: 5210B BOD, 5 day

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321633001

METHOD BLANK: 1936608

Matrix: Water

Associated Lab Samples: 70321633001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	<1.0	1.0	11/17/24 07:24	

LABORATORY CONTROL SAMPLE: 1936609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	176	89	84.5-115.4	

SAMPLE DUPLICATE: 1936610

Parameter	Units	70321273001 Result	Dup Result	RPD	Qualifiers
BOD, 5 day	mg/L	753	800	6	H1

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QUALITY CONTROL DATA

Project: CONDENSATE 11/11

Pace Project No.: 70321633

QC Batch: 370443

QC Batch Method: EPA 7196A

Analysis Method: EPA 7196A

Analysis Description: 7196 Chromium, Hexavalent

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321633001

METHOD BLANK: 1936997

Matrix: Water

Associated Lab Samples: 70321633001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	11/12/24 10:21	

LABORATORY CONTROL SAMPLE: 1936998

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.2	0.18	90	85-115	

MATRIX SPIKE SAMPLE: 1936999

Parameter	Units	70321633001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	<0.020	1	85-115	M1

SAMPLE DUPLICATE: 1937000

Parameter	Units	70321633001 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		

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QUALITY CONTROL DATA

Project: CONDENSATE 11/11

Pace Project No.: 70321633

QC Batch: 372447

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321633001

METHOD BLANK: 1949114

Matrix: Water

Associated Lab Samples: 70321633001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	<0.50	0.50	11/24/24 21:08	
Chloride	mg/L	<2.0	2.0	11/24/24 21:08	
Sulfate	mg/L	<5.0	5.0	11/24/24 21:08	

LABORATORY CONTROL SAMPLE: 1949115

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	1	1.1	108	90-110	
Chloride	mg/L	10	10.4	104	90-110	
Sulfate	mg/L	10	10.4	104	90-110	

MATRIX SPIKE SAMPLE: 1949116

Parameter	Units	70321980002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	<0.50	1	1.1	105	90-110	
Chloride	mg/L	15.9	10	26.1	102	90-110	
Sulfate	mg/L	13.2	10	23.5	103	90-110	

MATRIX SPIKE SAMPLE: 1949118

Parameter	Units	70322569002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	<0.50	1	1.1	107	90-110	
Chloride	mg/L	15.7	10	26.0	103	90-110	
Sulfate	mg/L	14.0	10	24.0	99	90-110	

SAMPLE DUPLICATE: 1949117

Parameter	Units	70321980002 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	<0.50	<0.50		
Chloride	mg/L	15.9	16.0	0	
Sulfate	mg/L	13.2	13.2	0	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CONDENSATE 11/11
Pace Project No.: 70321633

SAMPLE DUPLICATE: 1949119

Parameter	Units	70322569002 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	<0.50	<0.50		
Chloride	mg/L	15.7	15.7	0	
Sulfate	mg/L	14.0	13.6	4	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS



QUALITY CONTROL DATA

Project: CONDENSATE 11/11
Pace Project No.: 70321633

QC Batch:	370736	Analysis Method:	EPA 351.2
QC Batch Method:	EPA 351.2	Analysis Description:	351.2 TKN
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70321633001

METHOD BLANK: 1938647
Associated Lab Samples: 70321633001

Matrix: Water

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.094	0.094	11/14/24 11:52	

LABORATORY CONTROL SAMPLE: 1938648

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	4.2	106	90-110	

MATRIX SPIKE SAMPLE: 1938649

Parameter	Units	70321800002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.7	4	5.1	86	90-110	M1

MATRIX SPIKE SAMPLE: 1938651

Parameter	Units	70320854012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	2.2	4	5.4	80	90-110	M1

SAMPLE DUPLICATE: 1938650

Parameter	Units	70321800002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.7	1.8	6	

SAMPLE DUPLICATE: 1938652

Parameter	Units	70320854012 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	2.2	2.2	0	

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QUALITY CONTROL DATA

Project: CONDENSATE 11/11

Pace Project No.: 70321633

QC Batch: 371211

Analysis Method: SM22 4500 NH3 H

QC Batch Method: SM22 4500 NH3 H

Analysis Description: 4500 Ammonia

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321633001

METHOD BLANK: 1941993

Matrix: Water

Associated Lab Samples: 70321633001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.050	0.050	11/17/24 11:52	

LABORATORY CONTROL SAMPLE: 1941994

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.96	96	90-110	

MATRIX SPIKE SAMPLE: 1941995

Parameter	Units	70320854008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	1	1.1	102	75-125	

SAMPLE DUPLICATE: 1941996

Parameter	Units	70320854008 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	<0.10		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CONDENSATE 11/11
Pace Project No.: 70321633

QC Batch:	371268	Analysis Method:	EPA 9060A
QC Batch Method:	EPA 9060A	Analysis Description:	9060 TOC
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70321633001

METHOD BLANK: 1942141 Matrix: Water

Associated Lab Samples: 70321633001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<0.50	0.50	11/18/24 15:37	
Total Organic Carbon	mg/L	<0.50	0.50	11/18/24 15:37	
Total Organic Carbon	mg/L	<0.50	0.50	11/18/24 15:37	
Total Organic Carbon	mg/L	<0.50	0.50	11/18/24 15:37	
Total Organic Carbon	mg/L	<0.50	0.50	11/18/24 15:37	

LABORATORY CONTROL SAMPLE: 1942142

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	10	10.0	100	85-115	
Total Organic Carbon	mg/L	10	9.9	99	85-115	
Total Organic Carbon	mg/L	10	10.1	101	85-115	
Total Organic Carbon	mg/L	10	10.1	101	85-115	
Total Organic Carbon	mg/L	10	10.1	101	85-115	

MATRIX SPIKE SAMPLE: 1942143

Parameter	Units	70322287001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	<1.0	10	10	99	75-125	
Total Organic Carbon	mg/L	<1.0	10	9.8	98	75-125	
Total Organic Carbon	mg/L	<1.0	10	10.0	100	75-125	
Total Organic Carbon	mg/L	<1.0	10	10.0	99	75-125	
Total Organic Carbon	mg/L	<1.0	10	10	99	75-125	

SAMPLE DUPLICATE: 1942144

Parameter	Units	70322287001 Result	Dup Result	RPD	Qualifiers
Mean Total Organic Carbon	mg/L	<1.0	<1.0		
Total Organic Carbon	mg/L	<1.0	<1.0		
Total Organic Carbon	mg/L	<1.0	<1.0		
Total Organic Carbon	mg/L	<1.0	<1.0		
Total Organic Carbon	mg/L	<1.0	<1.0		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: CONDENSATE 11/11

Pace Project No.: 70321633

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 370788

- [1] The post digestion spike for sample 70320854008 (PDS 1938809) did not meet acceptance criteria for Silver, Calcium, Magnesium and Sodium.
- [2] The serial dilution for sample 70320854008 (SD 1938810) did not meet acceptance criteria for Boron.

ANALYTE QUALIFIERS

- E Analyte concentration exceeded the calibration range. The reported result is estimated.
- H1 Analysis conducted outside the EPA method holding time.
- IC The initial calibration for this compound was outside of method control limits. The result is estimated.
- L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
- v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CONDENSATE 11/11

Pace Project No.: 70321633

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70321633001	CONDENSATE	SM22 2340B	371276		
70321633001	CONDENSATE	EPA 3005A	370750	EPA 6010D	370788
70321633001	CONDENSATE	EPA 7470A	371251	EPA 7470A	371309
70321633001	CONDENSATE	EPA 8260C/5030C	370889		
70321633001	CONDENSATE	EPA 180.1	370465		
70321633001	CONDENSATE	SM22 2120B	370463		
70321633001	CONDENSATE	SM22 2320B	372490		
70321633001	CONDENSATE	SM22 2540C	371337		
70321633001	CONDENSATE	EPA 410.4	371235	EPA 410.4	371238
70321633001	CONDENSATE	SM22 5210B	370418	SM22 5210B	371342
70321633001	CONDENSATE	EPA 7196A	370443		
70321633001	CONDENSATE	EPA 300.0	372447		
70321633001	CONDENSATE	EPA 351.2	370736	EPA 351.2	370739
70321633001	CONDENSATE	SM22 4500 NH3 H	371211		
70321633001	CONDENSATE	EPA 9060A	371268		

REPORT OF LABORATORY ANALYSIS

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WO#: 70321633



70321633

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section C	
Required Client Information:	Required Project Information:
Company: AI Turi Landfill	Report To: TJ Milo
Address: 73 Hartley Road	Company Name: AI Turi Landfill
Goshen, NY 10924	Address:
Email To:	Pace Quote Reference:
Phone: 914-907-2385	Pace Project Manager:
Fax:	Pace Profile #:
Requested Due Date/TAT:	Standard

#	ITEM	Valid Matrix Codes MATRIX	CODE	COLLECTED		# OF CONTAINERS	Preservatives						Requested Ani	Filtered (Y/N)	SITe	LOCATION	REGULATORY AGENCY
				COMPOSITE START	COMPOSITE END/GRAB		DATE	TIME	DATE	TIME	DATE	TIME					
1	Condensate	WW	G	11/12/24	11:10	11	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH/Zn Acetate	Na ₂ S ₂ O ₃	Methanol				
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS										
							Temp in °C	Received on	Ice	Custody	Sealed Cooler	Samples Intact					
PART 360 1993 BASELINE ASP A	Matt Broke	11/12/24	15:30	JSA PACE	11/11/24												
	JSA PACE	11/12/24		SEE PACE LI	11/12/24	7:00											
SAMPLER NAME AND SIGNATURE				SAMPLER NAME AND SIGNATURE				SAMPLER NAME AND SIGNATURE				SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER: Matt Broke				PRINT Name of SAMPLER: Matt Broke				PRINT Name of SAMPLER: Matt Broke				PRINT Name of SAMPLER: Matt Broke					
SIGNATURE of SAMPLER: [Signature]				SIGNATURE of SAMPLER: [Signature]				SIGNATURE of SAMPLER: [Signature]				SIGNATURE of SAMPLER: [Signature]					
DATE Signed (MM/DD/YY): 11/11/24				DATE Signed (MM/DD/YY): 11/11/24				DATE Signed (MM/DD/YY): 11/11/24				DATE Signed (MM/DD/YY): 11/11/24					

WO#: 70321633

Client Name:

Project

PM: KMM

Due Date: 11/26/24

CLIENT: ALTURI

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pac ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No Temperature Blank Present: ☐ Yes ☒ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Ziplo ☐ None ☐ Other Type of Ice: ☒ Wet ☐ Blue ☐ None

Thermometer Used: TMC1 Correction Factor: 40.3 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 0.3 Cooler Temperature Corrected(°C): 0.6 Date/Time 5035A kits placed in freezer _____

Temp should be above freezing to 6.0°C

USDA Regulated Soil ☒ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX,
or VA (check map)? ☐ Yes ☒ No

Did samples originate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: ASF 11/12/24

		COMMENTS:
Chain of Custody Present:	☒ Yes ☐ No	1.
Chain of Custody Filled Out:	☒ Yes ☐ No	2.
Chain of Custody Relinquished:	☒ Yes ☐ No	3.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr):	☒ Yes ☐ No	6.
Rush Turn Around Time Requested	☒ Yes ☐ No	7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☒ Yes ☐ No	8.
Correct Containers Used:	☒ Yes ☐ No	9.
-Pace Containers Used:	☒ Yes ☐ No	10.
Containers Intact:	☒ Yes ☐ No	11.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	Note: if sediment is visible in the dissolved container,
Sample Labels match COC:	☒ Yes ☐ No	12.
-Includes date/time/ID/Analysis Matrix:	SL WT OIL OTHER	

Date and Initials of person checking preservation: ASF 11/12/24

All containers needing preservation have been ☒ Yes ☐ No ☐ N/A pH paper Lot # <u>200623</u> All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, ☒ Yes ☐ No ☐ N/A NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl		
	Sample #		
Samples checked for dechlorination: ☐ Yes ☐ No ☒ N/A	Initial when completed:	Lot # of added preservative:	Date/Time preservative added:
KI starch test strips Lot #	14. Positive for Res. Chlorine? Y N		
Residual chlorine strips Lot #	15. Positive for Sulfide? Y N		
SM 4500 CN samples checked for sul ☐ Yes ☐ No ☒ N/A	16.		
Lead Acetate Strips Lot #	17.		
Headspace in ALK Bottle (>6mm): ☐ Yes ☐ No ☒ N/A			
Headspace in VOA Vials (>6mm): ☐ Yes ☒ No ☐ N/A			
Trip Blank Present: ☐ Yes ☒ No ☐ N/A			
Trip Blank Custody Seals Present ☐ Yes ☒ No ☐ N/A			

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS



Microbac Laboratories Inc., - Marietta, OH

Client Project ID:

70321633

For:

Avida Sharma

Pace Analytical Melville

575 Broad Hollow RD

Melville, NY 11747

Project State of Origin: New York

Project Requested Certification:

Microbac Laboratories Inc., - Marietta, OH

10861

NY State Department of Health

All test results meet the requirements of the QAPP and other applicable contract terms and conditions. Any exceptions are attached to this cover page or addressed in the method narratives presented in the report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. The reported results are related only to the samples analyzed as received. This laboratory report may be released as a hardcopy and in computer-readable form submitted electronically or on diskette. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories, Inc.

Laboratory Project Manager:

Michelle Taylor

Project Manager

Michelle.Taylor@microbac.com

Authorized By:

Michelle Taylor

Project Manager

Issued: 11/22/2024

Microbac Laboratories, Inc.

158 Starlite Drive | Marietta, OH 45750 | 800.373.4071 p | www.microbac.com



Laboratory Report Number: M4K0903

Client Project ID: 70321633

Cooler Receipt Log

Cooler ID: Default Cooler

Temp: 1.4°C

Cooler Inspection Checklist

Ice Present or not required?	Yes
Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes
Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes
Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes
Sample type identified on COC?	Yes
Correct type of Containers Received	Yes
Correct number of containers listed on COC?	Yes
Containers Intact?	Yes
COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes
Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes
Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes
Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes



Laboratory Report Number: M4K0903
Client Project ID: 70321633
Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: CONDENSATE		Collection Date: 11/11/2024 11:10				
Laboratory ID: M4K0903-01		Prep Date: 11/20/2024 11:06				
Matrix: Aqueous		Analyzed: 11/20/2024 18:58				
Batch / Sequence: B4K1012 / S4K0344		Analytical Method: EPA 420.1		Calibration: UNASSIGNED		
Instrument: SEAL1		Units: mg/L		File ID: 24-11-20_01_PHENOL_APH-028		
Analyst: APH		Dilution: 1				
Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	0.104	0.0094	0.0100		



Laboratory Report Number: M4K0903

Client Project ID: 70321633

Notes and Definitions

mg/L: Milligrams per Liter

MDL: Method Detection Limit

RL: Reporting Limit

Chain of Custody

PASI New York Laboratory



Workorder: 70321633

Workorder Name: CONDENSATE 11/11

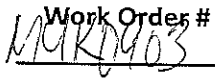
Results Requested By: 11/26/2024

Report / Invoice To		Subcontract To		Requested Analysis											
Kimberly M. Mack Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 Phone 516-370-6052 Email: kimberly.mack@pace labs.com		MICROBAC 158 Starlite Drive Marietta, OH 45750 P.O. 70321633 KMM													
Send Invoice To: invoices@pacelabs.coupahost.com															
State of Sample Origin: NY															
Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers	PHENOLS					LAB USE ONLY				
1	CONDENSATE	11/11/2024 11:10	70321633001	Water											
2															
3															
4															
5															
Comments															
Transfers		Released By		Date/Time		Received By		Date/Time							
1		MPL PACE LI		11/13/24 10:00		Stephanie Murphy		11/14/24 10:45							
2															
3															
Cooler Temperature on Receipt		1.4 °C		N		Custody Seal		Y or N		Received on Ice		Y or N		Samples Intact Y or N	



M 4 K 0 9 0 3

Pace Analytical - Melville, NY
Rec'd: 11/14/2024 10:45
By: Stephanie Murphy
Temp: 1.4 (Signature)

[illegible]

pH Lot # HC 44-1497

pH	Exceptions
----	------------

[illegible]

PRESERVATIVE EXCEPTIONS

NONE

AS NOTED

11/14/24 gm

Issued to: Document Master File



December 02, 2024

TJ Milo
Al Turi Landfill
73 Hartley Road
Goshen, NY 10924

RE: Project: OPERATIONAL WELLS 11/11
Pace Project No.: 70321581

Dear TJ Milo:

Enclosed are the analytical results for sample(s) received by the laboratory on November 12, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kimberley M. Mack
kimberley.mack@pacelabs.com
516-370-6052
Project Manager

Enclosures

cc: Marc Colantuono
Diane Conroy, Tetra Tech



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321581

Pace Analytical Services, LLC - Melville, NY

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Texas Certification #: T104704582

Florida Certification #: E871198

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321581

Sample: LEACHATE 11S		Lab ID: 70321581001		Collected: 11/11/24 11:50		Received: 11/12/24 07:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
Field Data	Analytical Method: Pace Analytical Services - Melville								
Field pH	7.49	Std. Units		1		11/11/24 11:50			
Field Temperature	12.7	deg C		1		11/11/24 11:50			
Field Specific Conductance	772.5	umhos/cm		1		11/11/24 11:50			
Eh	162	mV		1		11/11/24 11:50			
Field Turbidity	1.53	NTU		1		11/11/24 11:50			
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville								
Tot Hardness asCaCO3 (SM 2340B	240000	ug/L	830	1		11/14/24 14:26			
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Melville								
Arsenic	<10.0	ug/L	10.0	1	11/14/24 07:09	11/14/24 14:26	7440-38-2		
Cadmium	<2.5	ug/L	2.5	1	11/14/24 07:09	11/14/24 14:26	7440-43-9		
Calcium	63100	ug/L	200	1	11/14/24 07:09	11/14/24 14:26	7440-70-2		
Iron	<100	ug/L	100	1	11/14/24 07:09	11/14/24 14:26	7439-89-6		
Lead	<5.0	ug/L	5.0	1	11/14/24 07:09	11/14/24 14:26	7439-92-1		
Magnesium	19900	ug/L	200	1	11/14/24 07:09	11/14/24 14:26	7439-95-4		
Manganese	24.7	ug/L	10.0	1	11/14/24 07:09	11/14/24 14:26	7439-96-5		
Potassium	13400	ug/L	5000	1	11/14/24 07:09	11/14/24 14:26	7440-09-7		
Sodium	59600	ug/L	5000	1	11/14/24 07:09	11/14/24 14:26	7440-23-5		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Melville								
Mercury	<0.20	ug/L	0.20	1	11/18/24 07:15	11/18/24 17:05	7439-97-6		
180.1 Turbidity	Analytical Method: EPA 180.1 Pace Analytical Services - Melville								
Turbidity	1.2	NTU	1.0	1		11/12/24 20:02			
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville								
Alkalinity, Total as CaCO3	106	mg/L	1.0	1		11/22/24 14:05			
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville								
Total Dissolved Solids	458	mg/L	25.0	1		11/14/24 16:11			
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville								
Chemical Oxygen Demand	20.7	mg/L	10.0	1	11/18/24 03:10	11/18/24 05:31			
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville								
BOD, 5 day	<2.0	mg/L	2.0	1	11/12/24 14:35	11/17/24 08:06			

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321581

Sample: LEACHATE 11S		Lab ID: 70321581001	Collected: 11/11/24 11:50	Received: 11/12/24 07:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville						
Bromide	0.80	mg/L	0.50	1		11/25/24 02:06	24959-67-9	
Chloride	87.2	mg/L	2.0	1		11/25/24 02:06	16887-00-6	
Sulfate	98.5	mg/L	5.0	1		11/25/24 02:06	14808-79-8	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville						
Nitrogen, Kjeldahl, Total	<0.10	mg/L	0.10	1	11/14/24 03:39	11/14/24 12:20	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrate-Nitrite (as N)	13.8	mg/L	0.50	10		11/18/24 15:14	7727-37-9	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville						
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		11/17/24 12:06	7664-41-7	
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville						
Total Organic Carbon	5.6	mg/L	1.0	1		11/18/24 16:44	7440-44-0	
Total Organic Carbon	5.9	mg/L	1.0	1		11/18/24 16:44	7440-44-0	
Total Organic Carbon	5.7	mg/L	1.0	1		11/18/24 16:44	7440-44-0	
Total Organic Carbon	5.7	mg/L	1.0	1		11/18/24 16:44	7440-44-0	
Mean Total Organic Carbon	5.7	mg/L	1.0	1		11/18/24 16:44	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321581

Sample: LEACHATE 11P		Lab ID: 70321581002		Collected: 11/11/24 10:55		Received: 11/12/24 07:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
Field Data	Analytical Method: Pace Analytical Services - Melville								
Field pH	7.07	Std. Units		1		11/11/24 10:55			
Field Temperature	13.4	deg C		1		11/11/24 10:55			
Field Specific Conductance	752.4	umhos/cm		1		11/11/24 10:55			
Eh	153	mV		1		11/11/24 10:55			
Field Turbidity	0.79	NTU		1		11/11/24 10:55			
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville								
Tot Hardness asCaCO3 (SM 2340B	140000	ug/L	830	1		11/14/24 14:27			
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Melville								
Arsenic	<10.0	ug/L	10.0	1	11/14/24 07:09	11/14/24 14:27	7440-38-2		
Cadmium	<2.5	ug/L	2.5	1	11/14/24 07:09	11/14/24 14:27	7440-43-9		
Calcium	47200	ug/L	200	1	11/14/24 07:09	11/14/24 14:27	7440-70-2		
Iron	<100	ug/L	100	1	11/14/24 07:09	11/14/24 14:27	7439-89-6		
Lead	<5.0	ug/L	5.0	1	11/14/24 07:09	11/14/24 14:27	7439-92-1		
Magnesium	5470	ug/L	200	1	11/14/24 07:09	11/14/24 14:27	7439-95-4		
Manganese	<10.0	ug/L	10.0	1	11/14/24 07:09	11/14/24 14:27	7439-96-5		
Potassium	13000	ug/L	5000	1	11/14/24 07:09	11/14/24 14:27	7440-09-7		
Sodium	40000	ug/L	5000	1	11/14/24 07:09	11/14/24 14:27	7440-23-5		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Melville								
Mercury	<0.20	ug/L	0.20	1	11/18/24 07:15	11/18/24 17:06	7439-97-6		
180.1 Turbidity	Analytical Method: EPA 180.1 Pace Analytical Services - Melville								
Turbidity	<1.0	NTU	1.0	1		11/12/24 20:04			
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville								
Alkalinity, Total as CaCO3	68.0	mg/L	1.0	1		11/22/24 14:12			
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville								
Total Dissolved Solids	281	mg/L	25.0	1		11/14/24 16:11			
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville								
Chemical Oxygen Demand	<10.0	mg/L	10.0	1	11/18/24 03:10	11/18/24 05:31			
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville								
BOD, 5 day	<2.0	mg/L	2.0	1	11/12/24 14:40	11/17/24 08:08			

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321581

Sample: LEACHATE 11P		Lab ID: 70321581002	Collected: 11/11/24 10:55		Received: 11/12/24 07:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville						
Bromide	0.83	mg/L	0.50	1		11/25/24 02:59	24959-67-9	
Chloride	69.5	mg/L	2.0	1		11/25/24 02:59	16887-00-6	
Sulfate	61.1	mg/L	5.0	1		11/25/24 02:59	14808-79-8	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville						
Nitrogen, Kjeldahl, Total	<0.10	mg/L	0.10	1	11/14/24 03:39	11/14/24 12:08	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrate-Nitrite (as N)	3.7	mg/L	0.25	5		11/18/24 15:16	7727-37-9	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville						
Nitrogen, Ammonia	0.12	mg/L	0.10	1		11/17/24 12:07	7664-41-7	
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville						
Total Organic Carbon	1.9	mg/L	1.0	1		11/18/24 17:05	7440-44-0	
Total Organic Carbon	1.9	mg/L	1.0	1		11/18/24 17:05	7440-44-0	
Total Organic Carbon	1.9	mg/L	1.0	1		11/18/24 17:05	7440-44-0	
Total Organic Carbon	1.9	mg/L	1.0	1		11/18/24 17:05	7440-44-0	
Mean Total Organic Carbon	1.9	mg/L	1.0	1		11/18/24 17:05	7440-44-0	

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321581

Sample: LEACHATE 12S		Lab ID: 70321581003		Collected: 11/11/24 12:10		Received: 11/12/24 07:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
Field Data	Analytical Method: Pace Analytical Services - Melville								
Field pH	7.89	Std. Units		1		11/11/24 12:10			
Field Temperature	13.2	deg C		1		11/11/24 12:10			
Field Specific Conductance	306.3	umhos/cm		1		11/11/24 12:10			
Eh	157	mV		1		11/11/24 12:10			
Field Turbidity	0.8	NTU		1		11/11/24 12:10			
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville								
Tot Hardness asCaCO3 (SM 2340B	150000	ug/L	830	1		11/14/24 14:29			
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Melville								
Arsenic	<10.0	ug/L	10.0	1	11/14/24 07:09	11/14/24 14:29	7440-38-2		
Cadmium	<2.5	ug/L	2.5	1	11/14/24 07:09	11/14/24 14:29	7440-43-9		
Calcium	50900	ug/L	200	1	11/14/24 07:09	11/14/24 14:29	7440-70-2		
Iron	<100	ug/L	100	1	11/14/24 07:09	11/14/24 14:29	7439-89-6		
Lead	<5.0	ug/L	5.0	1	11/14/24 07:09	11/14/24 14:29	7439-92-1		
Magnesium	5640	ug/L	200	1	11/14/24 07:09	11/14/24 14:29	7439-95-4		
Manganese	<10.0	ug/L	10.0	1	11/14/24 07:09	11/14/24 14:29	7439-96-5		
Potassium	6350	ug/L	5000	1	11/14/24 07:09	11/14/24 14:29	7440-09-7		
Sodium	<5000	ug/L	5000	1	11/14/24 07:09	11/14/24 14:29	7440-23-5		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Melville								
Mercury	<0.20	ug/L	0.20	1	11/18/24 07:15	11/18/24 17:08	7439-97-6		
180.1 Turbidity	Analytical Method: EPA 180.1 Pace Analytical Services - Melville								
Turbidity	<1.0	NTU	1.0	1		11/12/24 20:05			
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville								
Alkalinity, Total as CaCO3	151	mg/L	1.0	1		11/22/24 14:22			
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville								
Total Dissolved Solids	172	mg/L	25.0	1		11/14/24 16:18			
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville								
Chemical Oxygen Demand	14.2	mg/L	10.0	1	11/18/24 03:10	11/18/24 05:31			
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville								
BOD, 5 day	<2.0	mg/L	2.0	1	11/12/24 14:44	11/17/24 08:11			

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321581

Sample: LEACHATE 12S		Lab ID: 70321581003		Collected: 11/11/24 12:10		Received: 11/12/24 07:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<0.50	mg/L	0.50	1		11/25/24 03:16	24959-67-9		
Chloride	<2.0	mg/L	2.0	1		11/25/24 03:16	16887-00-6		
Sulfate	<5.0	mg/L	5.0	1		11/25/24 03:16	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	0.53	mg/L	0.10	1	11/14/24 03:39	11/14/24 12:09	7727-37-9		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	0.36	mg/L	0.050	1		11/18/24 15:01	7727-37-9		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		11/17/24 12:08	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	5.4	mg/L	1.0	1		11/18/24 17:17	7440-44-0		
Total Organic Carbon	5.5	mg/L	1.0	1		11/18/24 17:17	7440-44-0		
Total Organic Carbon	5.4	mg/L	1.0	1		11/18/24 17:17	7440-44-0		
Total Organic Carbon	5.5	mg/L	1.0	1		11/18/24 17:17	7440-44-0		
Mean Total Organic Carbon	5.5	mg/L	1.0	1		11/18/24 17:17	7440-44-0		

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321581

Sample: LEACHATE 12P		Lab ID: 70321581004		Collected: 11/11/24 12:00		Received: 11/12/24 07:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
Field Data	Analytical Method: Pace Analytical Services - Melville								
Field pH	7.55	Std. Units		1		11/11/24 12:00			
Field Temperature	13.5	deg C		1		11/11/24 12:00			
Field Specific Conductance	1626	umhos/cm		1		11/11/24 12:00			
Eh	169	mV		1		11/11/24 12:00			
Field Turbidity	2.46	NTU		1		11/11/24 12:00			
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville								
Tot Hardness asCaCO3 (SM 2340B	367000	ug/L	830	1		11/14/24 14:30			
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Melville								
Arsenic	<10.0	ug/L	10.0	1	11/14/24 07:09	11/14/24 14:30	7440-38-2		
Cadmium	<2.5	ug/L	2.5	1	11/14/24 07:09	11/14/24 14:30	7440-43-9		
Calcium	110000	ug/L	200	1	11/14/24 07:09	11/14/24 14:30	7440-70-2		
Iron	<100	ug/L	100	1	11/14/24 07:09	11/14/24 14:30	7439-89-6		
Lead	<5.0	ug/L	5.0	1	11/14/24 07:09	11/14/24 14:30	7439-92-1		
Magnesium	22500	ug/L	200	1	11/14/24 07:09	11/14/24 14:30	7439-95-4		
Manganese	626	ug/L	10.0	1	11/14/24 07:09	11/14/24 14:30	7439-96-5		
Potassium	54600	ug/L	5000	1	11/14/24 07:09	11/14/24 14:30	7440-09-7		
Sodium	120000	ug/L	5000	1	11/14/24 07:09	11/14/24 14:30	7440-23-5		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Melville								
Mercury	<0.20	ug/L	0.20	1	11/18/24 07:15	11/18/24 17:09	7439-97-6		
180.1 Turbidity	Analytical Method: EPA 180.1 Pace Analytical Services - Melville								
Turbidity	2.4	NTU	1.0	1		11/12/24 20:06			
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville								
Alkalinity, Total as CaCO3	453	mg/L	1.0	1		11/22/24 14:42			
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville								
Total Dissolved Solids	818	mg/L	50.0	1		11/14/24 16:18			
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville								
Chemical Oxygen Demand	70.1	mg/L	10.0	1	11/18/24 03:10	11/18/24 05:31			
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville								
BOD, 5 day	14.3	mg/L	2.0	1	11/12/24 14:48	11/17/24 08:13			

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ANALYTICAL RESULTS

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321581

Sample: LEACHATE 12P		Lab ID: 70321581004		Collected: 11/11/24 12:00		Received: 11/12/24 07:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	0.95	mg/L	0.50	1		11/25/24 03:34	24959-67-9		
Chloride	173	mg/L	4.0	2		11/25/24 17:49	16887-00-6		
Sulfate	27.6	mg/L	5.0	1		11/25/24 03:34	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	32.8	mg/L	2.5	5	11/14/24 03:39	11/14/24 12:21	7727-37-9		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	28.9	mg/L	1.0	20		11/18/24 15:18	7727-37-9		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	40.4	mg/L	1.0	10		11/17/24 12:29	7664-41-7		
9060A TOC as NPOC		Analytical Method: EPA 9060A Pace Analytical Services - Melville							
Total Organic Carbon	18.2	mg/L	1.0	1		11/18/24 17:51	7440-44-0		
Total Organic Carbon	18.3	mg/L	1.0	1		11/18/24 17:51	7440-44-0		
Total Organic Carbon	18.5	mg/L	1.0	1		11/18/24 17:51	7440-44-0		
Total Organic Carbon	18.3	mg/L	1.0	1		11/18/24 17:51	7440-44-0		
Mean Total Organic Carbon	18.3	mg/L	1.0	1		11/18/24 17:51	7440-44-0		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321581

QC Batch:	371251	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70321581001, 70321581002, 70321581003, 70321581004

METHOD BLANK: 1942083 Matrix: Water

Associated Lab Samples: 70321581001, 70321581002, 70321581003, 70321581004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	11/18/24 16:49	

LABORATORY CONTROL SAMPLE & LCSD: 1942084		1942085								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ug/L	1	1.1	1.1	111	114	80-120	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321581

QC Batch:	370750	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3005A	Analysis Description:	6010D MET Water
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70321581001, 70321581002, 70321581003, 70321581004

METHOD BLANK: 1938683 Matrix: Water

Associated Lab Samples: 70321581001, 70321581002, 70321581003, 70321581004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<10.0	10.0	11/14/24 13:50	
Cadmium	ug/L	<2.5	2.5	11/14/24 13:50	
Calcium	ug/L	<200	200	11/14/24 13:50	
Iron	ug/L	<100	100	11/14/24 13:50	
Lead	ug/L	<5.0	5.0	11/14/24 13:50	
Magnesium	ug/L	<200	200	11/14/24 13:50	
Manganese	ug/L	<10.0	10.0	11/14/24 13:50	
Potassium	ug/L	<5000	5000	11/14/24 13:50	
Sodium	ug/L	<5000	5000	11/14/24 13:50	

LABORATORY CONTROL SAMPLE: 1938684

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	496	99	80-120	
Cadmium	ug/L	500	479	96	80-120	
Calcium	ug/L	25000	24300	97	80-120	
Iron	ug/L	12500	12300	98	80-120	
Lead	ug/L	500	479	96	80-120	
Magnesium	ug/L	25000	24100	96	80-120	
Manganese	ug/L	500	481	96	80-120	
Potassium	ug/L	25000	24800	99	80-120	
Sodium	ug/L	25000	24700	99	80-120	

MATRIX SPIKE SAMPLE: 1938686

Parameter	Units	70320854008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	<10.0	500	529	106	75-125	
Cadmium	ug/L	<2.5	500	504	101	75-125	
Calcium	ug/L	56900	12500	70300	107	75-125	
Iron	ug/L	1100	5000	6120	100	75-125	
Lead	ug/L	<5.0	500	503	101	75-125	
Magnesium	ug/L	35400	12500	48400	104	75-125	
Manganese	ug/L	15.8	500	520	101	75-125	
Potassium	ug/L	3120J	12500	16400	106	75-125	
Sodium	ug/L	65100	12500	79000	111	75-125	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321581

SAMPLE DUPLICATE: 1938685

Parameter	Units	70320854008 Result	Dup Result	RPD	Qualifiers
Arsenic	ug/L	<10.0	<10.0		
Cadmium	ug/L	<2.5	<2.5		
Calcium	ug/L	56900	58400	3	
Iron	ug/L	1100	1130	3	
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	35400	36500	3	
Manganese	ug/L	15.8	16.0	1	
Potassium	ug/L	3120J	<5000		
Sodium	ug/L	65100	67100	3	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321581

QC Batch: 370465

Analysis Method: EPA 180.1

QC Batch Method: EPA 180.1

Analysis Description: 180.1 Turbidity

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321581001, 70321581002, 70321581003, 70321581004

METHOD BLANK: 1937181

Matrix: Water

Associated Lab Samples: 70321581001, 70321581002, 70321581003, 70321581004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Turbidity	NTU	<1.0	1.0	11/12/24 19:56	

LABORATORY CONTROL SAMPLE: 1937182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	10	9.0	90	90-110	

SAMPLE DUPLICATE: 1937183

Parameter	Units	70321633001 Result	Dup Result	RPD	Qualifiers
Turbidity	NTU	85.0	85.0	0	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321581

QC Batch:	372302	Analysis Method:	SM22 2320B
QC Batch Method:	SM22 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70321581001, 70321581002, 70321581003, 70321581004

METHOD BLANK: 1947963 Matrix: Water

Associated Lab Samples: 70321581001, 70321581002, 70321581003, 70321581004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	<1.0	1.0	11/22/24 12:57	

LABORATORY CONTROL SAMPLE: 1947964

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	25	25.7	103	85-115	

MATRIX SPIKE SAMPLE: 1947966

Parameter	Units	70322443010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	126	50	175	98	75-125	

SAMPLE DUPLICATE: 1947965

Parameter	Units	70322443010 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	126	126	1	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321581

QC Batch: 370824

Analysis Method: SM22 2540C

QC Batch Method: SM22 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321581001, 70321581002, 70321581003, 70321581004

METHOD BLANK: 1939138

Matrix: Water

Associated Lab Samples: 70321581001, 70321581002, 70321581003, 70321581004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	11/14/24 15:34	

LABORATORY CONTROL SAMPLE: 1939139

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	496	99	85-115	

MATRIX SPIKE SAMPLE: 1939141

Parameter	Units	70321286001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	347	300	645	99	75-125	

MATRIX SPIKE SAMPLE: 1939143

Parameter	Units	70320854008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	452	600	1060	101	75-125	

SAMPLE DUPLICATE: 1939140

Parameter	Units	70321286001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	347	350	1	

SAMPLE DUPLICATE: 1939142

Parameter	Units	70320854008 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	452	454	0	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321581

QC Batch:	371235	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70321581001, 70321581002, 70321581003, 70321581004

METHOD BLANK: 1942034 Matrix: Water

Associated Lab Samples: 70321581001, 70321581002, 70321581003, 70321581004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<10.0	10.0	11/18/24 05:28	

LABORATORY CONTROL SAMPLE: 1942035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	508	102	90-110	

MATRIX SPIKE SAMPLE: 1942036

Parameter	Units	70322141001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	35.7	1000	1030	99	90-110	

MATRIX SPIKE SAMPLE: 1942038

Parameter	Units	70321807001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	55.0	1000	1030	97	90-110	

SAMPLE DUPLICATE: 1942037

Parameter	Units	70322141001 Result	Dup Result	RPD	Qualifiers
Chemical Oxygen Demand	mg/L	35.7	31.4	13	

SAMPLE DUPLICATE: 1942039

Parameter	Units	70321807001 Result	Dup Result	RPD	Qualifiers
Chemical Oxygen Demand	mg/L	55.0	48.6	12	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321581

QC Batch:	370418	Analysis Method:	SM22 5210B
QC Batch Method:	SM22 5210B	Analysis Description:	5210B BOD, 5 day
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70321581001, 70321581002, 70321581003, 70321581004

METHOD BLANK: 1936608 Matrix: Water

Associated Lab Samples: 70321581001, 70321581002, 70321581003, 70321581004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	<1.0	1.0	11/17/24 07:24	

LABORATORY CONTROL SAMPLE: 1936609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	176	89	84.5-115.4	

SAMPLE DUPLICATE: 1936610

Parameter	Units	70321273001 Result	Dup Result	RPD	Qualifiers
BOD, 5 day	mg/L	753	800	6 H1	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321581

QC Batch: 372447 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70321581001, 70321581002, 70321581003, 70321581004

METHOD BLANK: 1949114 Matrix: Water
Associated Lab Samples: 70321581001, 70321581002, 70321581003, 70321581004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	<0.50	0.50	11/24/24 21:08	
Chloride	mg/L	<2.0	2.0	11/24/24 21:08	
Sulfate	mg/L	<5.0	5.0	11/24/24 21:08	

LABORATORY CONTROL SAMPLE: 1949115

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	1	1.1	108	90-110	
Chloride	mg/L	10	10.4	104	90-110	
Sulfate	mg/L	10	10.4	104	90-110	

MATRIX SPIKE SAMPLE: 1949116

Parameter	Units	70321980002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	<0.50	1	1.1	105	90-110	
Chloride	mg/L	15.9	10	26.1	102	90-110	
Sulfate	mg/L	13.2	10	23.5	103	90-110	

MATRIX SPIKE SAMPLE: 1949118

Parameter	Units	70322569002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	<0.50	1	1.1	107	90-110	
Chloride	mg/L	15.7	10	26.0	103	90-110	
Sulfate	mg/L	14.0	10	24.0	99	90-110	

SAMPLE DUPLICATE: 1949117

Parameter	Units	70321980002 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	<0.50	<0.50		
Chloride	mg/L	15.9	16.0	0	
Sulfate	mg/L	13.2	13.2	0	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/11
Pace Project No.: 70321581

SAMPLE DUPLICATE: 1949119

Parameter	Units	70322569002 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	<0.50	<0.50		
Chloride	mg/L	15.7	15.7	0	
Sulfate	mg/L	14.0	13.6	4	

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REPORT OF LABORATORY ANALYSIS



QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321581

QC Batch: 370736

Analysis Method: EPA 351.2

QC Batch Method: EPA 351.2

Analysis Description: 351.2 TKN

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321581001, 70321581002, 70321581003, 70321581004

METHOD BLANK: 1938647

Matrix: Water

Associated Lab Samples: 70321581001, 70321581002, 70321581003, 70321581004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.094	0.094	11/14/24 11:52	

LABORATORY CONTROL SAMPLE: 1938648

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	4.2	106	90-110	

MATRIX SPIKE SAMPLE: 1938649

Parameter	Units	70321800002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.7	4	5.1	86	90-110	M1

MATRIX SPIKE SAMPLE: 1938651

Parameter	Units	70320854012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	2.2	4	5.4	80	90-110	M1

SAMPLE DUPLICATE: 1938650

Parameter	Units	70321800002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.7	1.8	6	

SAMPLE DUPLICATE: 1938652

Parameter	Units	70320854012 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	2.2	2.2	0	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321581

QC Batch: 371379

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, preserved

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321581001, 70321581002, 70321581003, 70321581004

METHOD BLANK: 1942575

Matrix: Water

Associated Lab Samples: 70321581001, 70321581002, 70321581003, 70321581004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.037	0.037	11/18/24 14:35	

LABORATORY CONTROL SAMPLE: 1942576

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	0.97	97	90-110	

MATRIX SPIKE SAMPLE: 1942577

Parameter	Units	70322572001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	2.1	0.5	2.5	89	90-110	M1

MATRIX SPIKE SAMPLE: 1942579

Parameter	Units	70321581001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	13.8	5	18.4	92	90-110	

SAMPLE DUPLICATE: 1942578

Parameter	Units	70322572001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	2.1	2.0	2	

SAMPLE DUPLICATE: 1942580

Parameter	Units	70321581001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	13.8	14.8	7	

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321581

QC Batch: 371211 Analysis Method: SM22 4500 NH3 H
QC Batch Method: SM22 4500 NH3 H Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70321581001, 70321581002, 70321581003, 70321581004

METHOD BLANK: 1941993 Matrix: Water
Associated Lab Samples: 70321581001, 70321581002, 70321581003, 70321581004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.050	0.050	11/17/24 11:52	

LABORATORY CONTROL SAMPLE: 1941994

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.96	96	90-110	

MATRIX SPIKE SAMPLE: 1941995

Parameter	Units	70320854008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	1	1.1	102	75-125	

SAMPLE DUPLICATE: 1941996

Parameter	Units	70320854008 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	<0.10		

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QUALITY CONTROL DATA

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321581

QC Batch: 371268

Analysis Method: EPA 9060A

QC Batch Method: EPA 9060A

Analysis Description: 9060 TOC

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70321581001, 70321581002, 70321581003, 70321581004

METHOD BLANK: 1942141

Matrix: Water

Associated Lab Samples: 70321581001, 70321581002, 70321581003, 70321581004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<0.50	0.50	11/18/24 15:37	
Total Organic Carbon	mg/L	<0.50	0.50	11/18/24 15:37	
Total Organic Carbon	mg/L	<0.50	0.50	11/18/24 15:37	
Total Organic Carbon	mg/L	<0.50	0.50	11/18/24 15:37	
Total Organic Carbon	mg/L	<0.50	0.50	11/18/24 15:37	

LABORATORY CONTROL SAMPLE: 1942142

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	10	10.0	100	85-115	
Total Organic Carbon	mg/L	10	9.9	99	85-115	
Total Organic Carbon	mg/L	10	10.1	101	85-115	
Total Organic Carbon	mg/L	10	10.1	101	85-115	
Total Organic Carbon	mg/L	10	10.1	101	85-115	

MATRIX SPIKE SAMPLE: 1942143

Parameter	Units	70322287001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	<1.0	10	10	99	75-125	
Total Organic Carbon	mg/L	<1.0	10	10	99	75-125	
Total Organic Carbon	mg/L	<1.0	10	10.0	100	75-125	
Total Organic Carbon	mg/L	<1.0	10	9.8	98	75-125	
Total Organic Carbon	mg/L	<1.0	10	10.0	99	75-125	

SAMPLE DUPLICATE: 1942144

Parameter	Units	70322287001 Result	Dup Result	RPD	Qualifiers
Mean Total Organic Carbon	mg/L	<1.0	<1.0		
Total Organic Carbon	mg/L	<1.0	<1.0		
Total Organic Carbon	mg/L	<1.0	<1.0		
Total Organic Carbon	mg/L	<1.0	<1.0		
Total Organic Carbon	mg/L	<1.0	<1.0		

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QUALIFIERS

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321581

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 370788

- [1] The post digestion spike for sample 70320854008 (PDS 1938809) did not meet acceptance criteria for Silver, Calcium, Magnesium and Sodium.
- [2] The serial dilution for sample 70320854008 (SD 1938810) did not meet acceptance criteria for Boron.

ANALYTE QUALIFIERS

H1 Analysis conducted outside the EPA method holding time.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321581

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70321581001	LEACHATE 11S		372345		
70321581002	LEACHATE 11P		372345		
70321581003	LEACHATE 12S		372345		
70321581004	LEACHATE 12P		372345		
70321581001	LEACHATE 11S	SM22 2340B	371276		
70321581002	LEACHATE 11P	SM22 2340B	371276		
70321581003	LEACHATE 12S	SM22 2340B	371276		
70321581004	LEACHATE 12P	SM22 2340B	371276		
70321581001	LEACHATE 11S	EPA 3005A	370750	EPA 6010D	370788
70321581002	LEACHATE 11P	EPA 3005A	370750	EPA 6010D	370788
70321581003	LEACHATE 12S	EPA 3005A	370750	EPA 6010D	370788
70321581004	LEACHATE 12P	EPA 3005A	370750	EPA 6010D	370788
70321581001	LEACHATE 11S	EPA 7470A	371251	EPA 7470A	371309
70321581002	LEACHATE 11P	EPA 7470A	371251	EPA 7470A	371309
70321581003	LEACHATE 12S	EPA 7470A	371251	EPA 7470A	371309
70321581004	LEACHATE 12P	EPA 7470A	371251	EPA 7470A	371309
70321581001	LEACHATE 11S	EPA 180.1	370465		
70321581002	LEACHATE 11P	EPA 180.1	370465		
70321581003	LEACHATE 12S	EPA 180.1	370465		
70321581004	LEACHATE 12P	EPA 180.1	370465		
70321581001	LEACHATE 11S	SM22 2320B	372302		
70321581002	LEACHATE 11P	SM22 2320B	372302		
70321581003	LEACHATE 12S	SM22 2320B	372302		
70321581004	LEACHATE 12P	SM22 2320B	372302		
70321581001	LEACHATE 11S	SM22 2540C	370824		
70321581002	LEACHATE 11P	SM22 2540C	370824		
70321581003	LEACHATE 12S	SM22 2540C	370824		
70321581004	LEACHATE 12P	SM22 2540C	370824		
70321581001	LEACHATE 11S	EPA 410.4	371235	EPA 410.4	371238
70321581002	LEACHATE 11P	EPA 410.4	371235	EPA 410.4	371238
70321581003	LEACHATE 12S	EPA 410.4	371235	EPA 410.4	371238
70321581004	LEACHATE 12P	EPA 410.4	371235	EPA 410.4	371238
70321581001	LEACHATE 11S	SM22 5210B	370418	SM22 5210B	371342
70321581002	LEACHATE 11P	SM22 5210B	370418	SM22 5210B	371342
70321581003	LEACHATE 12S	SM22 5210B	370418	SM22 5210B	371342
70321581004	LEACHATE 12P	SM22 5210B	370418	SM22 5210B	371342
70321581001	LEACHATE 11S	EPA 300.0	372447		
70321581002	LEACHATE 11P	EPA 300.0	372447		
70321581003	LEACHATE 12S	EPA 300.0	372447		
70321581004	LEACHATE 12P	EPA 300.0	372447		
70321581001	LEACHATE 11S	EPA 351.2	370736	EPA 351.2	370739
70321581002	LEACHATE 11P	EPA 351.2	370736	EPA 351.2	370739
70321581003	LEACHATE 12S	EPA 351.2	370736	EPA 351.2	370739
70321581004	LEACHATE 12P	EPA 351.2	370736	EPA 351.2	370739

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OPERATIONAL WELLS 11/11

Pace Project No.: 70321581

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70321581001	LEACHATE 11S	EPA 353.2	371379		
70321581002	LEACHATE 11P	EPA 353.2	371379		
70321581003	LEACHATE 12S	EPA 353.2	371379		
70321581004	LEACHATE 12P	EPA 353.2	371379		
70321581001	LEACHATE 11S	SM22 4500 NH3 H	371211		
70321581002	LEACHATE 11P	SM22 4500 NH3 H	371211		
70321581003	LEACHATE 12S	SM22 4500 NH3 H	371211		
70321581004	LEACHATE 12P	SM22 4500 NH3 H	371211		
70321581001	LEACHATE 11S	EPA 9060A	371268		
70321581002	LEACHATE 11P	EPA 9060A	371268		
70321581003	LEACHATE 12S	EPA 9060A	371268		
70321581004	LEACHATE 12P	EPA 9060A	371268		

REPORT OF LABORATORY ANALYSIS

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Chain-of-Custody Analytical Request Document

LAB USE ONLY - Affix Workorder/analysis number or MTJL Log-

W0#: 70321581

70321581

Chain-of-Custody is a LEGAL DOCUMENT- Complete all relevant fields

Billing Information: TJ Milo, 306 Fayette Avenue Realty, 566 Westchester Ave. Rye Brook, NY 10573

Company: Al Turi Landfill

Address: 73 Hartley Road Goshen, NY 10924

Report To: TJ Milo

Report To: TJ Milo

Copy To:

Customer Project Name/Number: Operational Wells

Site/Facility ID #

Phone: 914-307-2385

Fax:

Collected by (print) Matt broker (PACE)

Quote #

Turnaround Date Required:

Standard

RUSH:

Same Day Next Day 2

Day 3 Day 4 Day 5 Day

(Expedite Charges Apply)

Sample Disposal:

() Dispose as appropriate () Return

() Archive () Hold

() Hold

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID

Comp/ Grab

Collected (or Composite Start)

Date

Time

Res Cl

of Chns

Customer Remarks/ Special Conditions/ Possible Hazards: Part 360 Baseline 1995 Modified ASP A

6.5' Hrs For 11/11/24

LAB USE ONLY

Temp Blank received: Y N NA

Therm ID #: 1121

Cooler 1 Temp Upon Receipt: 0.3 oC

Cooler 1 Therm Corr. Factor: 0.3 oC

Cooler 1 Corrected Temp: 0.6 oC

Comments:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

NonConformance(s)

YES / NO

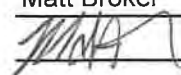
Page of

PACE Analytical Services, Inc. Tap Water / Surface Water / Wastewater Field Log

Client: Al Turi Landfill

Sampler (print): Matt Broker

Project: Operational Wells

Signature: 

Date: 11/11/24

Location	<u>Leachate 11S</u>	TIME SAMPLED	<u>11:50</u>	PACE ID. NO.	
SWL	<u>N/A</u> Feet	WEATHER CONDITION:	<u>16C sunny</u>		
TEMPERATURE	<u>12.7</u> C				
PH	<u>7.49</u> STD. UNITS	APPEARANCE / OBSERVATIONS	<u>clear</u>		
SPEC. COND.	<u>772.5</u> uS				
TURBIDITY	<u>1.53</u> NTU				
EH	<u>162</u> mV	IF TESTING FOR CYANIDE:	IF TESTING FOR PHENOLICS:		
SULFITE	<u>N/A</u> MG/L	CHLORINE RES.	<u>n/a</u>	CHLORINE RES.	<u>n/a</u>
DIS.OXYGEN	<u>N/A</u> MG/L	SULFIDE			

Location	<u>Leachate 11P</u>	TIME SAMPLED	<u>10:55</u>	PACE ID. NO.	
SWL	<u>N/A</u> Feet	WEATHER CONDITION:	<u>15C sunny</u>		
TEMPERATURE	<u>13.4</u> C				
PH	<u>7.07</u> STD. UNITS	APPEARANCE / OBSERVATIONS	<u>clear</u>		
SPEC. COND.	<u>752.4</u> uS				
TURBIDITY	<u>0.79</u> NTU				
EH	<u>153</u> mV	IF TESTING FOR CYANIDE:	IF TESTING FOR PHENOLICS:		
SULFITE	<u>N/A</u> MG/L	CHLORINE RES.	<u>n/a</u>	CHLORINE RES.	<u>n/a</u>
DIS.OXYGEN	<u>N/A</u> MG/L	SULFIDE			

Location	<u>Leachate 12S</u>	TIME SAMPLED	<u>12:10</u>	PACE ID. NO.	
FLOW	<u>N/A</u> gallons	WEATHER CONDITION:	<u>16C sunny</u>		
TEMPERATURE	<u>13.2</u> C				
PH	<u>7.89</u> STD. UNITS	APPEARANCE / OBSERVATIONS	<u>clear no odor</u>		
SPEC. COND.	<u>306.3</u> uMHOS/CM				
TURBIDITY	<u>0.8</u> NTU				
EH	<u>157</u> mV	IF TESTING FOR CYANIDE:	IF TESTING FOR PHENOLICS:		
SULFITE	<u>N/A</u> MG/L	CHLORINE RES.	<u>n/a</u>	CHLORINE RES.	<u>n/a</u>
DIS.OXYGEN	<u>N/A</u> MG/L	SULFIDE			

Location	<u>Leachate 12P</u>	TIME SAMPLED	<u>12:00</u>	PACE ID. NO.	
FLOW	<u>N/A</u> gallons	WEATHER CONDITION:	<u>16C sunny</u>		
TEMPERATURE	<u>13.5</u> C				
PH	<u>7.55</u> STD. UNITS	APPEARANCE / OBSERVATIONS	<u>clear</u>		
SPEC. COND.	<u>1626</u> uS				
TURBIDITY	<u>2.46</u> NTU				
EH	<u>169</u> mV	IF TESTING FOR CYANIDE:	IF TESTING FOR PHENOLICS:		
SULFITE	<u>N/A</u> MG/L	CHLORINE RES.	<u>n/a</u>	CHLORINE RES.	<u>n/a</u>
DIS.OXYGEN	<u>N/A</u> MG/L	SULFIDE			

Page

PACE ANALYICAL INC.
FIELD CALIBRATION SHEET

DATE: 11/11/24 **SITE:** Al Turi Landfill
TECHNICIAN: Matt Broker **WEATHER:** 15C sunny

INSTRUMENT:

PH	Myron Ultrameter II 6PFCe	524
CONDUCTIVITY	Myron Ultrameter II 6PFCe	524
TEMPERATURE	Myron Ultrameter II 6PFCe	524
DISSOLVED OXYGEN	Sper Scientific 850041	
TURBIDITY	Hanna HI 98703	

INSTRUMENT ANALYTE	STANDARD	INITIAL READING	ADJUSTED READING	TIME	NOTES
Ph	4.00	4.11	4.00	1031	
	7.00	7.02	7.00	1030	
	10.00	10.04	10.00	1032	
Conductivity	1413	1421	1413	1033	
Turbidity	<0.10	0.14	0.1	1034	
	15	15.4	15	1035	
	100	102	100	1036	
	750	744	750	1037	

NOTES:



Microbac Laboratories Inc., - Marietta, OH

Client Project ID:

70321581

For:

Avida Sharma

Pace Analytical Melville

575 Broad Hollow RD

Melville, NY 11747

Project State of Origin: New York

Project Requested Certification:

Microbac Laboratories Inc., - Marietta, OH

10861

NY State Department of Health

All test results meet the requirements of the QAPP and other applicable contract terms and conditions. Any exceptions are attached to this cover page or addressed in the method narratives presented in the report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. The reported results are related only to the samples analyzed as received. This laboratory report may be released as a hardcopy and in computer-readable form submitted electronically or on diskette. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories, Inc.

Laboratory Project Manager:

Michelle Taylor

Project Manager

Michelle.Taylor@microbac.com

Authorized By:

Michelle Taylor

Project Manager

Issued: 11/22/2024

Microbac Laboratories, Inc.

158 Starlite Drive | Marietta, OH 45750 | 800.373.4071 p | www.microbac.com



Laboratory Report Number: M4K0901

Client Project ID: 70321581

Cooler Receipt Log

Cooler ID: Default Cooler

Temp: 1.4°C

Cooler Inspection Checklist

Ice Present or not required?	Yes
Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes
Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes
Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes
Sample type identified on COC?	Yes
Correct type of Containers Received	Yes
Correct number of containers listed on COC?	Yes
Containers Intact?	Yes
COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes
Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes
Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes
Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes



Laboratory Report Number: M4K0901

Client Project ID: 70321581

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: LEACHATE 11S		Collection Date: 11/11/2024 11:50				
Laboratory ID: M4K0901-01		Prep Date: 11/20/2024 11:06				
Matrix: Aqueous		Analyzed: 11/20/2024 18:47				
Batch / Sequence: B4K1012 / S4K0344		Analytical Method: EPA 420.1		Calibration: UNASSIGNED		
Instrument: SEAL1		Units: mg/L		File ID: 24-11-20_01_PHENOL_APH-024		
Analyst: APH		Dilution: 1				
Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	ND	0.0094	0.0100		



Laboratory Report Number: M4K0901

Client Project ID: 70321581

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: LEACHATE 11P			Collection Date: 11/11/2024 10:55			
Laboratory ID: M4K0901-02			Prep Date: 11/20/2024 11:06			
Matrix: Aqueous			Analyzed: 11/20/2024 18:50			
Batch / Sequence: B4K1012 / S4K0344		Analytical Method: EPA 420.1		Calibration: UNASSIGNED		
Instrument: SEAL1		Units: mg/L		File ID: 24-11-20_01_PHENOL_APH-025		
Analyst: APH		Dilution: 1				
Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	ND	0.0094	0.0100		



Laboratory Report Number: M4K0901

Client Project ID: 70321581

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: LEACHATE 12S			Collection Date: 11/11/2024 12:10			
Laboratory ID: M4K0901-03			Prep Date: 11/20/2024 11:06			
Matrix: Aqueous			Analyzed: 11/20/2024 18:53			
Batch / Sequence: B4K1012 / S4K0344		Analytical Method: EPA 420.1		Calibration: UNASSIGNED		
Instrument: SEAL1		Units: mg/L		File ID: 24-11-20_01_PHENOL_APH-026		
Analyst: APH		Dilution: 1				
Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	ND	0.0094	0.0100		



Laboratory Report Number: M4K0901

Client Project ID: 70321581

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: LEACHATE 12P			Collection Date: 11/11/2024 12:00			
Laboratory ID: M4K0901-04			Prep Date: 11/20/2024 11:06			
Matrix: Aqueous			Analyzed: 11/20/2024 18:55			
Batch / Sequence: B4K1012 / S4K0344		Analytical Method: EPA 420.1		Calibration: UNASSIGNED		
Instrument: SEAL1		Units: mg/L		File ID: 24-11-20_01_PHENOL_APH-027		
Analyst: APH		Dilution: 1				
Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Phenolics, Total	TOTPHEN	ND	0.0094	0.0100		



Laboratory Report Number: M4K0901

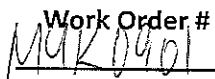
Client Project ID: 70321581

Notes and Definitions

mg/L: Milligrams per Liter

MDL: Method Detection Limit

RL: Reporting Limit

[illegible]

pH Lot # HC 997997

pH **Exceptions**

[illegible]

PRESERVATIVE EXCEPTIONS

NONE

AS NOTED

Document Control # 1957
Last 04-10-2019

11/14/24 fm

Issued to: Document Master File

APPENDIX B-7: ACCIDENT DATA SUMMARY TABLES

Accident Data Summary Table from January 1, 2018 through April 29, 2025
Intersection of NYS Route 17 and Hartley Road/Gate Schoolhouse Road, Town of Goshen, New York

Date	Time	On Street	Closest Cross Street		Traffic Control	Collision Type	Light Condition	Road Surface Conditions	Weather Conditions	Crash Type	Reference Marker	# of Vehicles	# of Injuries	Apparent Contributing Factor
Accidents at the Intersection of NYS Route 17M and Hartley Road/Gate Schoolhouse Road														
2/7/2022	2:48 PM	ROUTE 17M	GATE SCHOOL HOUSE RD	At Intersection	TRAFFIC SIGNAL	OTHER	DAYLIGHT	SLUSH	RAIN	RAN OFF ROAD ONLY	6 83012186	1	0	V1:(STEERING FAILURE,OTHER (VEHICLE))
2/11/2022	7:20 AM	GATE SCHOOLHOUSE RD	ROUTE 17M		TRAFFIC SIGNAL	RIGHT ANGLE	DAYLIGHT	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE		2	1	V1:(NOT APPLICABLE,NOT APPLICABLE) / V2:(FAILURE TO YIELD RIGHT OF WAY,GLARE)
4/19/2022	10:59 AM	ROUTE 17M	GATE SCHOOL HOUSE RD	At Intersection	TRAFFIC SIGNAL	REAR END	DAYLIGHT	WET	CLOUDY	COLLISION WITH MOTOR VEHICLE	6 83012186	2	0	V1:(FOLLOWING TOO CLOSELY,DRIVER INATTENTION) / V2:(NOT APPLICABLE,NOT APPLICABLE)
11/22/2022	12:28 PM	ROUTE 17M	GATE SCHOOL HOUSE RD	At Intersection	TRAFFIC SIGNAL	OTHER	DAYLIGHT	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE	6 83012186	3	0	V1:(DRIVER INATTENTION,NOT APPLICABLE) / V2:(NOT APPLICABLE,NOT APPLICABLE) / V3:(NOT APPLICABLE,NOT
12/10/2022	1:30 PM	ROUTE 17M	GATE SCHOOL HOUSE RD		NONE	RIGHT ANGLE	DAYLIGHT	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE	6 83012186	2	0	V1:(DRIVER INATTENTION,DRIVER INEXPERIENCE) / V2:(NOT APPLICABLE,NOT APPLICABLE)
10/9/2023	9:20 AM	ROUTE 17M	HARTLEY RD	At Intersection	TRAFFIC SIGNAL	REAR END	DAYLIGHT	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE	6 83012186	2	1	V1:(NOT APPLICABLE,NOT APPLICABLE) / V2:(USING ON BOARD NAVIGATION DEVICE,NOT APPLICABLE)
11/2/2023	10:52 PM	ROUTE 17M	GATE SCHOOL HOUSE RD		NONE	OTHER	DARK-ROAD UNLIGHTED	DRY	CLEAR	COLLISION WITH ANIMAL	6 83012186	1	0	V1:(ANIMALS ACTION,NOT APPLICABLE)
11/24/2023	4:02 PM	GATE SCHOOLHOUSE RD	ROUTE 17M	At Intersection	TRAFFIC SIGNAL	LEFT TURN (AGAINST OTHER	DAYLIGHT	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE		2	0	V1:(DRIVER INATTENTION,NOT APPLICABLE) / V2:(NOT APPLICABLE,NOT APPLICABLE)
3/8/2024	6:50 AM	ROUTE 17M	GATE SCHOOL HOUSE RD	At Intersection	TRAFFIC SIGNAL	OTHER	DAYLIGHT	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE	6 83012186	3	0	V1:(TRAFFIC CONTROL DEVICES DISREGARDED,GLARE) / V2:(NOT APPLICABLE,NOT APPLICABLE) / V3:(NOT APPLICABLE,NOT
12/4/2024	2:27 PM	ROUTE 17M	GATE SCHOOL HOUSE RD	At Intersection	TRAFFIC SIGNAL	REAR END	DAYLIGHT	DRY	CLOUDY	COLLISION WITH MOTOR VEHICLE	6 83012186	2	0	V1:(DRIVER INATTENTION,NOT APPLICABLE) / V2:(NOT APPLICABLE,NOT APPLICABLE)
Non-intersection Accidents in the vicinity of Intersection of NYS Route 17M and Hartley Road/Gate Schoolhouse Road														
3/12/2022	11:22 AM	ROUTE 17M	GATE SCHOOL HOUSE RD	approx. 190 ft west of intersection	NONE	OTHER	DAYLIGHT	SNOW/ICE	SNOW	COLLISION WITH SIGN POST	6 83012186	1	0	V1:(PAVEMENT SLIPPERY,NOT APPLICABLE)
12/18/2024	10:47 PM	ROUTE 17M	GATE SCHOOL HOUSE RD	approx. 150 ft west of intersection	NO PASSING	OTHER	DARK-ROAD UNLIGHTED	WET	RAIN	COLLISION WITH ANIMAL	6 83012186	1	0	V1:(ANIMALS ACTION,NOT APPLICABLE)
4/30/2022	4:58 PM	ROUTE 17M	GATE SCHOOL HOUSE RD	approx 177 ft east of intersection	TRAFFIC SIGNAL	REAR END	DAYLIGHT	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE	6 83012187	2	2	V1:(DRIVER INATTENTION,BRAKES DEFECTIVE) / V2:(NOT APPLICABLE,NOT APPLICABLE)
1/4/2022	10:10 AM	ROUTE 17M	HARTLEY RD	approx. 183 west of intersection	NONE	REAR END	DAYLIGHT	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE	6 83012185	2	0	V1:(FOLLOWING TOO CLOSELY,NOT APPLICABLE) / V2:(NOT APPLICABLE,NOT APPLICABLE)
3/21/2023	8:01 AM	ROUTE 17M	GATE SCHOOL HOUSE RD	approx. 190 ft west of intersection	TRAFFIC SIGNAL	REAR END	DAYLIGHT	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE	6 83012186	2	0	V1:(NOT APPLICABLE,NOT APPLICABLE) / V2:(GLARE,NOT APPLICABLE)
7/26/2022	2:45 PM	ROUTE 17M	GATE SCHOOL HOUSE RD	approx 250 ft east of intersection	NONE	REAR END	DAYLIGHT	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE	6 83012186	2	2	V1:(FOLLOWING TOO CLOSELY,PASSENGER DISTRACTION) / V2:(NOT APPLICABLE,NOT APPLICABLE)
8/16/2024	1:00 PM	ROUTE 17M	GATE SCHOOL HOUSE RD	approx 250 ft east of intersection	NONE	REAR END	DAYLIGHT	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE	6 83012186	2	0	V1:(FOLLOWING TOO CLOSELY,NOT APPLICABLE) / V2:(NOT APPLICABLE,NOT APPLICABLE)
12/2/2024	3:20 PM	ROUTE 17M	HARTLEY RD	approx. 285 ft west of intersection	NO PASSING ZONE	REAR END	DAYLIGHT	DRY	CLOUDY	COLLISION WITH MOTOR VEHICLE	6 83012185	2	0	V1:(FOLLOWING TOO CLOSELY,NOT APPLICABLE) / V2:(NOT APPLICABLE,NOT APPLICABLE)
11/23/2023	1:30 PM	ROUTE 17M	HARTLEY RD	approx 300 ft east of intersection	NONE	REAR END	DAYLIGHT	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE	6 83012187	2	1	V1:(TURNING IMPROPER,DRIVER INATTENTION) / V2:(FOLLOWING TOO CLOSELY,DRIVER INATTENTION)
9/13/2022	5:22 PM	ROUTE 17M	GATE SCHOOL HOUSE RD	approx 340 ft east of intersection	TRAFFIC SIGNAL	OTHER	DAYLIGHT	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE	6 83012187	3	0	V1:(DRIVER INATTENTION,NOT APPLICABLE) / V2:(NOT APPLICABLE,NOT APPLICABLE) / V3:(NOT APPLICABLE,NOT
3/27/2023	10:14 AM	ROUTE 17M	HARTLEY RD	approx 400 ft east of intersection	NO PASSING ZONE	OTHER	DAYLIGHT	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE	6 83012187	3	1	V1:(NOT APPLICABLE,NOT APPLICABLE) / V2:(NOT APPLICABLE,NOT APPLICABLE) / V3:(DRIVER INATTENTION,FOLLOWING TOO CLOSELY)
6/7/2024	8:00 AM	ROUTE 17M	HARTLEY RD	approx. 420 ft west of intersection	NONE	RIGHT ANGLE	DAYLIGHT	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE	6 83012185	2	3	V1:(FAILURE TO YIELD RIGHT OF WAY,FAILURE TO KEEP RIGHT) / V2:(NOT APPLICABLE,NOT APPLICABLE)
10/11/2023	2:30 PM	ROUTE 17M	HARTLEY RD	approx. 474 ft west of intersection	NONE	REAR END	DAYLIGHT	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE	6 83012185	2	0	V1:(NOT APPLICABLE,NOT APPLICABLE) / V2:(DRIVER INATTENTION,NOT APPLICABLE)
2/23/2024	7:42 AM	ROUTE 17M	GATE SCHOOL HOUSE RD	approx. 474 ft west of intersection	TRAFFIC SIGNAL	REAR END	DAYLIGHT	DRY	CLOUDY	COLLISION WITH MOTOR VEHICLE	6 83012185	2	1	V1:(DRIVER INATTENTION,NOT APPLICABLE) / V2:(NOT APPLICABLE,NOT APPLICABLE)
2/1/2023	8:47 AM	ROUTE 17M	GATE SCHOOL HOUSE RD	approx. 494 ft west of intersection	NONE	REAR END	DAYLIGHT	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE	6 83012185	2	0	V1:(DRIVER INATTENTION,FOLLOWING TOO CLOSELY) / V2:(NOT APPLICABLE,NOT APPLICABLE)

Accident Data Summary Table from January 1, 2018 through April 29, 2025
Intersection of NYS Route 17 and Hartley Road/Gate Schoolhouse Road, Town of Goshen, New York

1/12/2023	7:55 AM	ROUTE 17M	GATE SCHOOL HOUSE RD	approx. 500 ft west of intersection	NONE	OTHER	DAYLIGHT	WET	RAIN	COLLISION WITH MOTOR VEHICLE	6 83012185	3	0	V1:(NOT APPLICABLE,NOT APPLICABLE) / V2:(FOLLOWING TOO CLOSELY,NOT APPLICABLE) / V3:(FOLLOWING TOO CLOSELY,NOT APPLICABLE)
2/2/2023	7:54 AM	ROUTE 17M	GATE SCHOOL HOUSE RD	approx. 520 ft west of intersection	NONE	REAR END	DAYLIGHT	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE	6 83012185	2	2	V1:(DRIVER INATTENTION,FOLLOWING TOO CLOSELY) / V2:(NOT APPLICABLE,NOT APPLICABLE)
4/6/2023	1:30 PM	ROUTE 17M	GATE SCHOOL HOUSE RD	approx. 520 ft west of intersection	NONE	OTHER	DAYLIGHT	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE	6 83012185	3	0	V1:(FOLLOWING TOO CLOSELY,NOT APPLICABLE) / V2:(NOT APPLICABLE,FOLLOWING TOO CLOSELY) / V3:(NOT APPLICABLE)
8/26/2024	7:32 AM	ROUTE 17M	HARTLEY RD	approx 560 ft east of intersection	TRAFFIC SIGNAL	REAR END	DAYLIGHT	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE	6 83012187	2	0	V1:(NOT APPLICABLE,NOT APPLICABLE) / V2:(DRIVER INATTENTION,NOT APPLICABLE)
8/8/2022	6:13 PM	ROUTE 17M	GATE SCHOOL HOUSE RD	approx 595 ft east of intersection	NONE	REAR END	DAYLIGHT	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE	6 83012187	2	0	V1:(DRIVER INATTENTION,NOT APPLICABLE) / V2:(NOT APPLICABLE,NOT APPLICABLE)
5/8/2023	4:44 PM	ROUTE 17M	HARTLEY RD	approx. 665 ft west of intersection	NONE	OTHER	DAYLIGHT	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE	6 83012185	3	0	V1:(OTHER (VEHICLE),UNSAFE LANE CHANGE) / V2:(OTHER (VEHICLE),UNSAFE LANE CHANGE) / V3:(FOLLOWING TOO CLOSELY,NOT APPLICABLE)
11/8/2022	9:23 AM	ROUTE 17M	GATE SCHOOL HOUSE RD	approx 874 ft east of intersection	NONE	REAR END	DAYLIGHT	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE	6 83012188	2	0	V1:(NOT APPLICABLE,NOT APPLICABLE) / V2:(DRIVER INATTENTION,NOT APPLICABLE)
5/31/2023	10:38 PM	ROUTE 17M	GATE SCHOOL HOUSE RD	approx 1,000 ft east of intersection	NONE	OTHER	DARK-ROAD UNLIGHTED	DRY	CLEAR	COLLISION WITH ANIMAL	6 83012188	1	1	V1:(ANIMALS ACTION,NOT APPLICABLE)
7/10/2023	1:42 AM	ROUTE 17M	GATE SCHOOL HOUSE RD	approx 1,710 ft east of intersection	NONE	OTHER	DARK-ROAD UNLIGHTED	WET	CLOUDY	COLL. W/EARTH ELE./ROCK	6 83012189	1	1	V1:(ANIMALS ACTION,NOT APPLICABLE)
2/3/2025	10:40 AM	ROUTE 17M	GATE SCHOOL HOUSE RD	approx 1,937 ft east of intersection	NO PASSING ZONE	REAR END	DAYLIGHT	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE	6 83012190	2	0	V1:(FOLLOWING TOO CLOSELY,NOT APPLICABLE) / V2:(NOT APPLICABLE,NOT APPLICABLE)
6/26/2024	11:50 AM	ROUTE 17M	HARTLEY RD	approx 1,993 ft east of intersection	NO PASSING ZONE	REAR END	DAYLIGHT	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE	6 83012190	2	0	V1:(FOLLOWING TOO CLOSELY,DRIVER INATTENTION) / V2:(NOT APPLICABLE,NOT APPLICABLE)
1/19/2025	4:10 PM	ROUTE 17M	GATE SCHOOL HOUSE RD	approx 2,158 ft east of intersection	NONE	OTHER	DUSK	SNOW/ICE	SNOW	RAN OFF ROAD ONLY	6 83012190	1	0	V1:(PAVEMENT SLIPPERY,NOT APPLICABLE)
8/13/2023	4:00 AM	ROUTE 17M	GATE SCHOOL HOUSE RD	approx 2,298 ft east of intersection	NONE	OTHER	DARK-ROAD UNLIGHTED	UNKNOWN	UNKNOWN	COLLISION WITH TREE	6 83012190	1	0	V1:(FELL ASLEEP,NOT APPLICABLE)
8/9/2022	09:44 PM	ROUTE 17M	GATE SCHOOL HOUSE RD	approx 2,466 ft east of intersection	NONE	REAR END	DARK-ROAD UNLIGHTED	DRY	CLEAR	COLLISION WITH MOTOR VEHICLE	6 83012191	4	1	V1:(FOLLOWING TOO CLOSELY,UNSAFE SPEED) / V2:(NOT APPLICABLE,UNKNOWN) / V3:(FOLLOWING TOO CLOSELY,UNSAFE SPEED)
6/2/2024	6:40 AM	ROUTE 17M	HARTLEY RD	approx 2,466 ft east of intersection	NONE	OTHER	DAYLIGHT	DRY	CLEAR	COLLISION WITH DEER	6 83012191	1	0	V1:(ANIMALS ACTION,NOT APPLICABLE)

Table 2
Summary of Accident Rates and Comparison to State Wide Average
for the
Intersection of NYS Route 17 and Hartley Road/Gate Schoolhouse Road
Town of Goshen, New York

Analysis Period	AADT ¹	No of Accidents	NYS Average Accident Rate ¹	Segment Accident Rate ²	Analysis Period
2024	16,596	2	0.58	0.33	1
2023	18,137	3	0.58	0.45	1
2022	17,320	5	0.58	0.79	1
2022-2024	17,351	10	0.58	0.53	3

Notes:

AADT - Annual Average Daily Traffic

ACC - Accident

ACC/MEV - Accidents per Million Vehicles

1. Data from "Traffic Viewere Data" website. <https://www.dot.ny.gov/tdv>
2. NYS Accident Rate taken from "Average Accident Rates for State Highways by Facility Type (Based on Accident Data January 1, 2015 to December 31, 2016.
<https://www.dot.ny.gov/divisions/operating/osss/highway/accident-rates>

3.

$$\text{Accident Rate (ACC/MEV)} = \frac{(\# \text{ Accidents}) (1,000,000)}{(\# \text{ Years of Data})(\text{AADT Entering Intersection})(365 \text{ days/year})}$$

AVERAGE ACCIDENT RATES FOR STATE HIGHWAYS BY FACILITY TYPE
(BASED ON ACCIDENT DATA January 1, 2015 TO December 31, 2016)

Average accident rates are based on both reportable and available non-reportable crashes.

MAINLINE ACCIDENTS ONLY: "Non-Intersection Accidents/MVM" is used for linear highway sections where there are no intersecting roads or ramp junctions within analysis limits. An example of the correct use of these rates would involve a linear section of highway which contains no intersections with other public highways, but may contain intersections with private roads or driveways.

MAINLINE & JUNCTURE ACCIDENTS: "Intersection & Non-Intersection Accidents/MVM" includes intersection and mainline accidents. They are used for analysis of linear highway sections where intersections are involved within the analysis limits and are the most commonly used rates for accident analysis purposes.

FACILITY TYPE

FREE ACCESS CONTROLLED		MAINLINE ACCIDENTS ONLY			MAINLINE & JUNCTURE ACCIDENTS		
RURAL FUNCTION CLASS		ALL TYPES	WET ROAD	FIXED OBJECT	ALL TYPES	WET ROAD	FIXED OBJECT
UNDIVIDED		ACC/MVM	ACC/MVM	ACC/MVM	ACC/MVM	ACC/MVM	ACC/MVM
2 LANES		2.1	0.33	0.58	2.61	0.4	0.68
3 LANES		1.87	0.24	0.57	2.25	0.27	0.64
4 LANES		1.9	0.26	0.36	2.55	0.34	0.44
ALL LANES		2.09	0.33	0.58	2.6	0.4	0.68
DIVIDED							
2 LANES		1.88	0.27	0.46	2.56	0.36	0.57
4 LANES		1.92	0.29	0.51	2.15	0.32	0.54
ALL LANES		1.92	0.29	0.48	2.3	0.33	0.57
URBAN FUNCTION CLASS							
UNDIVIDED							
2 LANES		2.23	0.33	0.34	3.5	0.52	0.45
3 LANES		2.71	0.36	0.27	4.31	0.63	0.38
4 LANES		3.22	0.49	0.22	5.5	0.86	0.31
ALL LANES		2.46	0.36	0.31	3.95	0.59	0.43
DIVIDED							
2 LANES		3.13	0.48	0.2	5.14	0.78	0.28
4 LANES		2.85	0.45	0.18	4.52	0.72	0.24
6 LANES		3.65	0.53	0.16	4.8	0.71	0.2
7 LANES		3.05	0.58	0.09	3.99	0.72	0.16
ALL LANES		3.1	0.48	0.18	4.7	0.73	0.25

PARTIAL CONTROL OF ACCESS		MAINLINE ACCIDENTS ONLY			MAINLINE & JUNCTURE ACCIDENTS		
RURAL FUNCTION CLASS		ALL TYPES	WET ROAD	FIXED OBJECT	ALL TYPES	WET ROAD	FIXED OBJECT
UNDIVIDED		ACC/MVM	ACC/MVM	ACC/MVM	ACC/MVM	ACC/MVM	ACC/MVM
2 LANES		1.87	0.35	0.44	2.44	0.48	0.51
ALL LANES		1.91	0.35	0.43	2.47	0.48	0.53
DIVIDED							
4 LANES		1.85	0.29	0.81	1.97	0.32	0.85
ALL LANES		1.84	0.29	0.8	1.96	0.32	0.85
URBAN FUNCTION CLASS							
UNDIVIDED							
2 LANES		1.73	0.32	0.39	2.51	0.45	0.47
ALL LANES		2.02	0.39	0.35	3.11	0.58	0.43
DIVIDED							
4 LANES		1.62	0.27	0.32	1.94	0.32	0.34
6 LANES		1.73	0.27	0.25	2	0.32	0.27
ALL LANES		1.73	0.28	0.31	2.1	0.34	0.33
CONTROLLED ACCESS (FULL)							
RURAL FUNCTION CLASS							
UNDIVIDED							
2 LANES		2.13	0.36	0.56	2.64	0.44	0.67
ALL LANES		2.26	0.37	0.57	2.79	0.44	0.67
DIVIDED							
4 LANES		1.07	0.16	0.45	1.11	0.16	0.46
5 LANES		1.01	0.16	0.47	1.04	0.16	0.5
6 LANES		1.11	0.23	0.51	1.23	0.24	0.55
ALL LANES		1.08	0.16	0.45	1.11	0.17	0.46
URBAN FUNCTION CLASS		MAINLINE ACCIDENTS ONLY			MAINLINE & JUNCTURE ACCIDENTS		
UNDIVIDED		ALL TYPES	WET ROAD	FIXED OBJECT	ALL TYPES	WET ROAD	FIXED OBJECT
		ACC/MVM	ACC/MVM	ACC/MVM	ACC/MVM	ACC/MVM	ACC/MVM
ALL LANES		1.46	0.21	0.27	2.1	0.31	0.34
DIVIDED							
4 LANES		1.08	0.16	0.29	1.18	0.18	0.3
5 LANES		0.99	0.16	0.29	1.14	0.18	0.31
6 LANES		1.16	0.18	0.19	1.26	0.19	0.21
7 LANES		1.42	0.2	0.28	1.47	0.21	0.33
ALL LANES		1.12	0.17	0.22	1.22	0.19	0.24

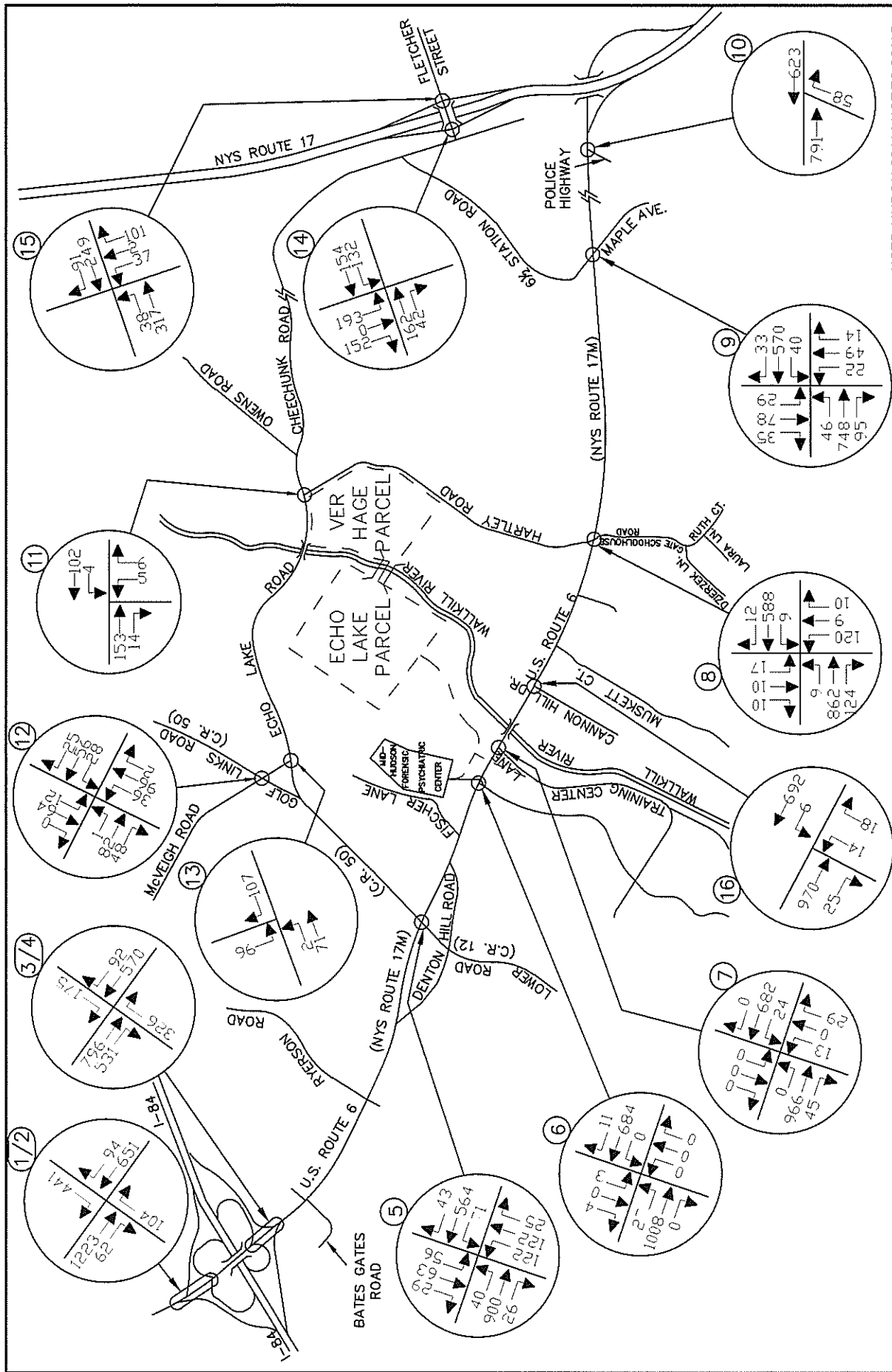
AVERAGE INTERSECTION ACCIDENT RATES FOR STATE HIGHWAYS BY INTERSECTION TYPE
(BASED ON ACCIDENT DATA January 1, 2015 TO December 31, 2016)

INTERSECTION TYPE	ALL TYPES ACC/MEV	WET ROAD ACC/MEV	LEFT TURN ACC/MEV	REAR END CC/ME	OVER- TAKING ACC/MEV	RIGHT ANGLE ACC/MEV	RIGHT TURN ACC/MEV	HEAD ON ACC/MEV	SIDE- SWIPE ACC/MEV
RURAL FUNCTION CLASS									
3 LEGGED INTERSECTIONS									
SIGNAL ALL LANES	0.26	0.04	0.03	0.09	0.03	0.03	0.01	0.00	0.00
SIGN ALL LANES	0.17	0.02	0.01	0.03	0.01	0.01	0.00	0.00	0.00
NO CONTROL ALL LANES	0.11	0.02	0.01	0.02	0.01	0.01	0.00	0.00	0.00
4LEGGED&>INTERSECTIONS									
SIGNAL ALL LANES	0.58	0.09	0.06	0.16	0.03	0.15	0.02	0.01	0.01
SIGN ALL LANES	0.35	0.05	0.03	0.05	0.01	0.1	0.01	0	0.01
NO CONTROL ALL LANES	0.23	0.05	0.02	0.05	0.01	0.04	0	0.01	0
ON RAMP (ALL CONTROL)									
MERGE W/ 1 LANE	0.19	0	0	0.19	0	0	0	0	0
MERGE W/ 2&> LANES	0.03	0.01	--	--	--	--	--	--	--
OFF RAMP (ALL CONTROL)									
MERGE W/ 1 LANE	0	0	--	--	--	--	--	--	--
MERGE W/ 2&> LANES	0.08	0.01	--	0.01	0	--	--	--	--

INTERSECTION TYPE	ALL TYPES ACC/MEV	WET ROAD ACC/MEV	LEFT TURN ACC/MEV	REAR END CC/ME	OVER- TAKING ACC/MEV	RIGHT ANGLE ACC/MEV	RIGHT TURN ACC/MEV	HEAD ON ACC/MEV	SIDE- SWIPE ACC/MEV
URBAN FUNCTION CLASS									
3 LEGGED INTERSECTIONS									
SIGNAL 1-4 LANES	0.32	0.05	0.03	0.12	0.04	0.04	0.01	0	0.01
SIGNAL W/ LEFT TURN 5 & > LANES	0.14	0.02	0.01	0.05	0.03	0.02	0	0	0
SIGNAL W/0 LEFT TURN 5 & > LANES	0.14	0.02	0.01	0.06	0.03	0.01	0	0	0
SIGN 1-3 LANES	0.18	0.03	0.02	0.06	0.01	0.02	0	0	0
SIGN 4 LANES	0.12	0.02	0.01	0.04	0.01	0.02	0	0	0
SIGN 5 & > LANES	0.06	0.01	0	0.02	0.01	0.01	0	0	0
NO CONTROL ALL LANES	0.05	0.01	0	0.02	0.01	0	0	0	0
4 LEGGED &> INTERSECTIONS									
SIGNAL 1-4 LANES	0.52	0.08	0.05	0.21	0.06	0.08	0.02	0.01	0.01
SIGNAL W/ LEFT TURN 5 & > LANES	0.25	0.04	0.01	0.11	0.04	0.03	0.01	0	0
SIGNAL W/0 LEFT TURN 5 & > LANES	0.2	0.03	0.02	0.06	0.03	0.04	0.01	0	0
SIGN 1-3 LANES	0.29	0.04	0.03	0.08	0.02	0.07	0.01	0	0
SIGN 4 & > LANES	0.16	0.02	0.01	0.05	0.01	0.03	0	0	0
NO CONTROL ALL LANES	0.19	0.03	0.01	0.07	0.02	0.04	0.01	0	0
ON RAMP (ALL CONTROL)									
MERGE W/ 1 LANE	0.17	0	0.01	0.12	0.01	0.01	0	0	0
MERGE W/ 2 LANES	0.03	0	0	0.01	0	0	0	0	0
MERGE W/ 3&> LANES	0.01	0	0	0.01	0	0	0	0	0
OFF RAMP (ALL CONTROL)									
MERGE W/ 1 LANE	0.18	0.03	0	0.06	0.06	0.01	--	--	--
MERGE W/ 2 LANES	0.04	0.01	--	0.01	0.01	--	--	--	--
MERGE W/ 3&> LANES	0.02	0	--	0.01	--	--	--	--	--

**APPENDIX B-8: PEAK AM HOUR AND PM HOUR TRAFFIC VOLUMES
RECORDED IN PREVIOUS TRAFFIC STUDIES**

WEEKDAY PEAK AM HOUR TRAFFIC VOLUMES



NOTE: LINE DIAGRAM NOT TO SCALE



AMY'S KITCHEN AND SCIENCE OF THE SOUL
GOSHEN, NEW YORK

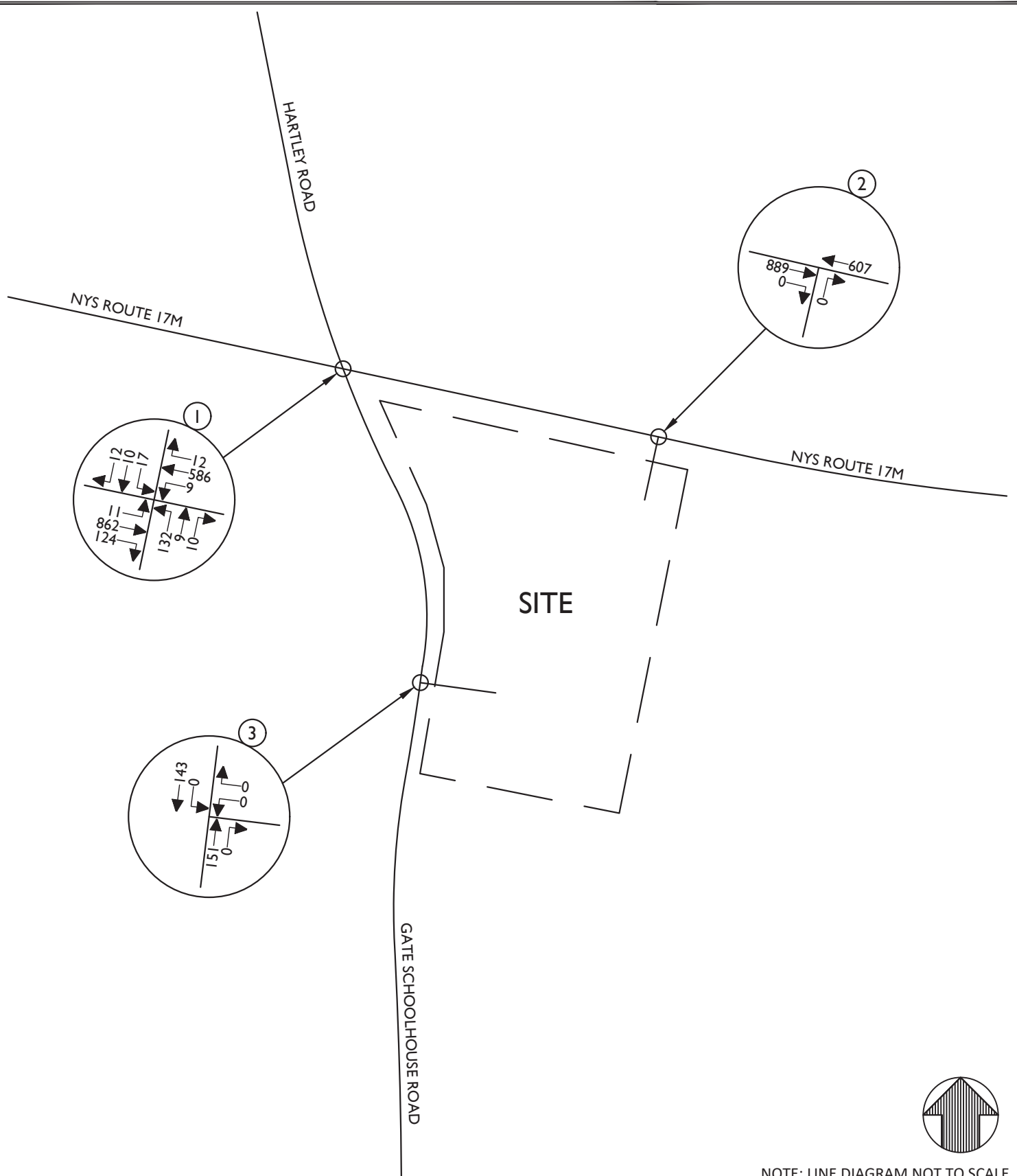
2015 EXISTING TRAFFIC VOLUMES
WEEKDAY AM PEAK HIGHWAY HOUR
(7:30 AM - 8:30 AM)

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JOB NUMBER:	DATE:
130016598	03/24/16
FIGURE NUMBER:	3



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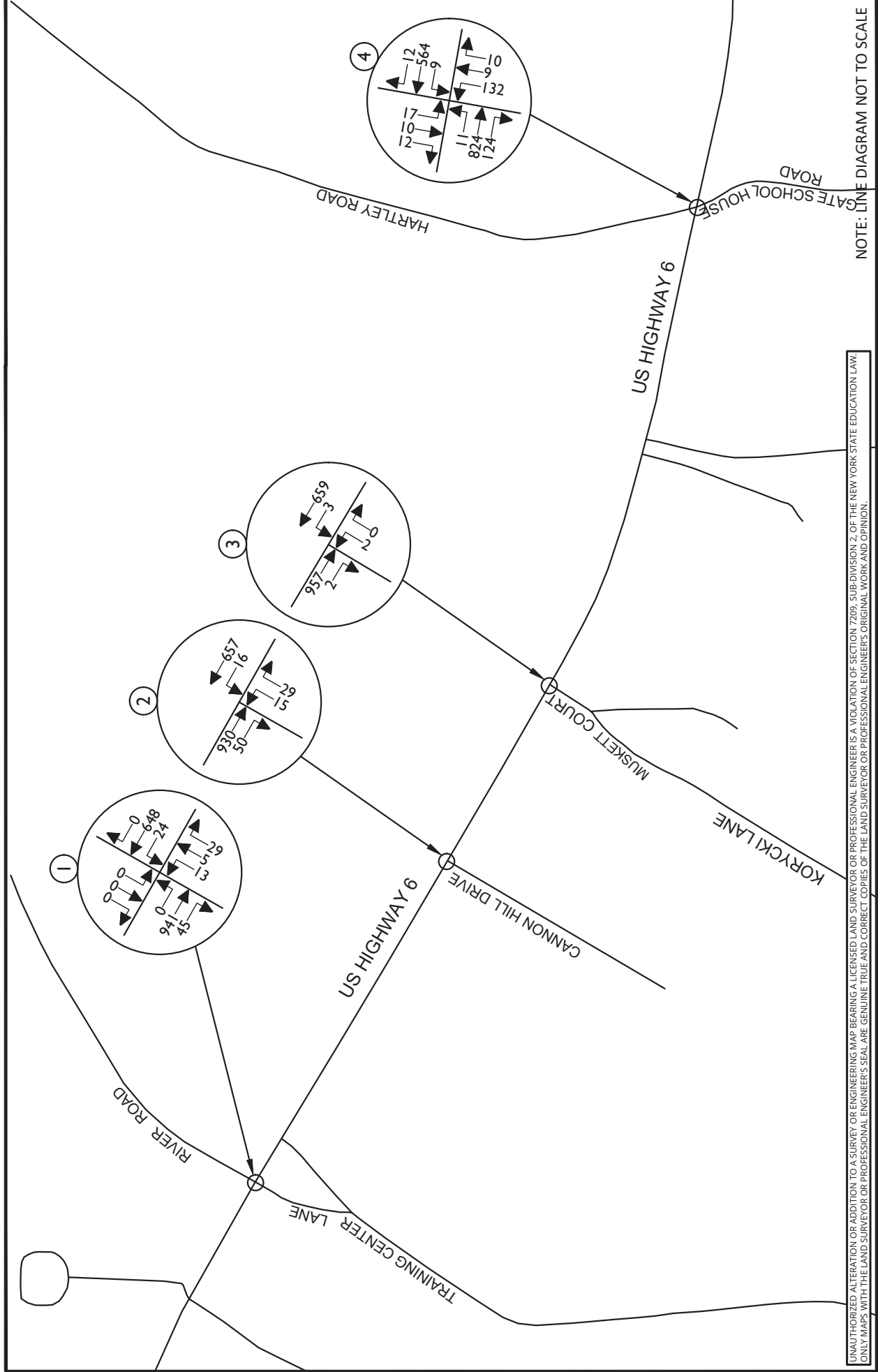
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20005729A	220201JFM_FIGURES		

SHEET TITLE:
2022 EXISTING TRAFFIC VOLUMES
WEEKDAY PEAK AM HOUR

SHEET NUMBER:

2



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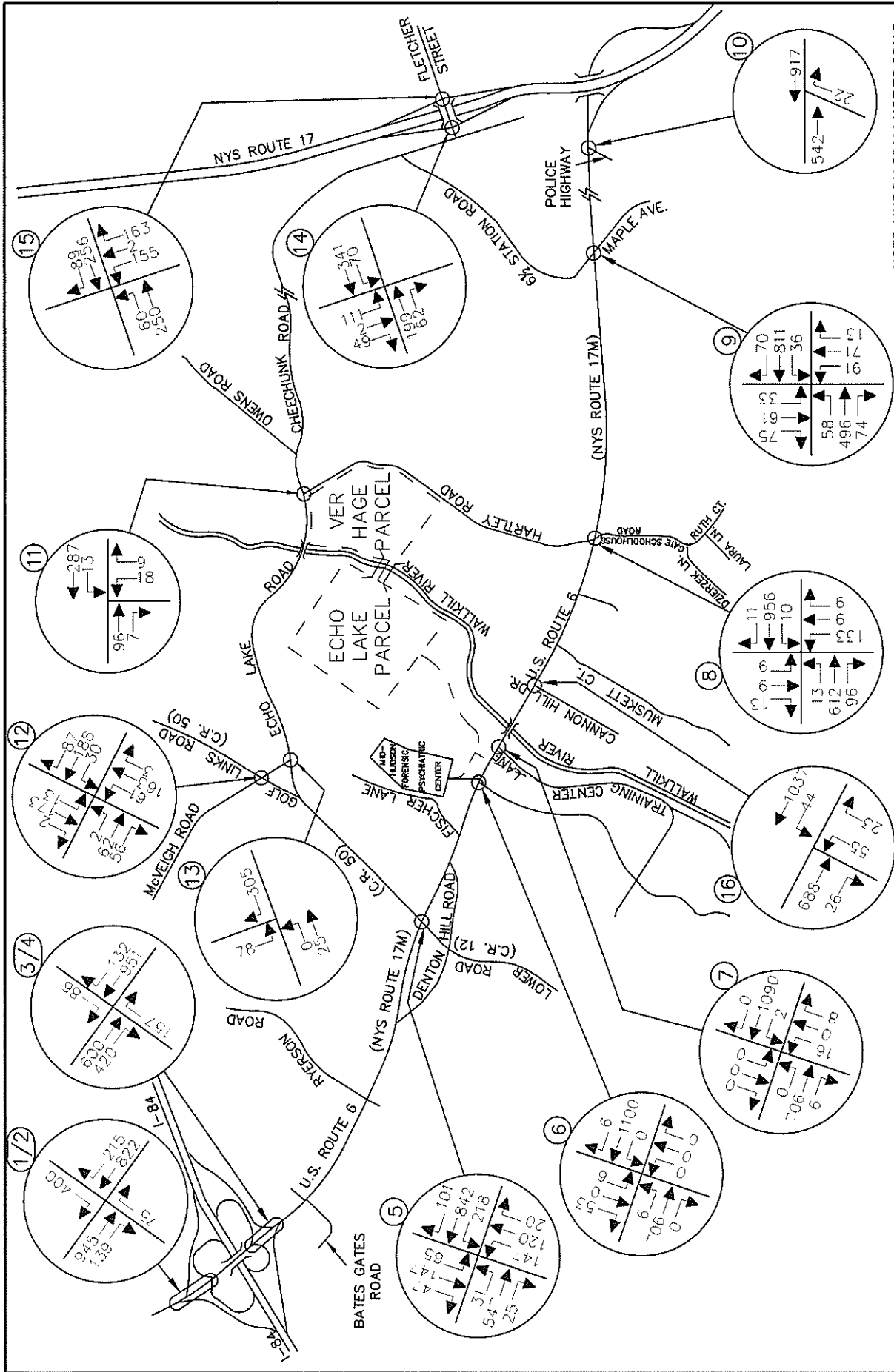
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AS SHOWN	8/8/23	P.T.V.	RD
PROJECT NUMBER:	DRAWING NAME:		
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FIELD BOOK: XX PAGE: XX			

2023 EXISTING TRAFFIC VOLUMES
WEEKDAY PEAK AM HOUR

SHEET NUMBER: 2

WEEKDAY PEAK PM HOUR TRAFFIC VOLUMES



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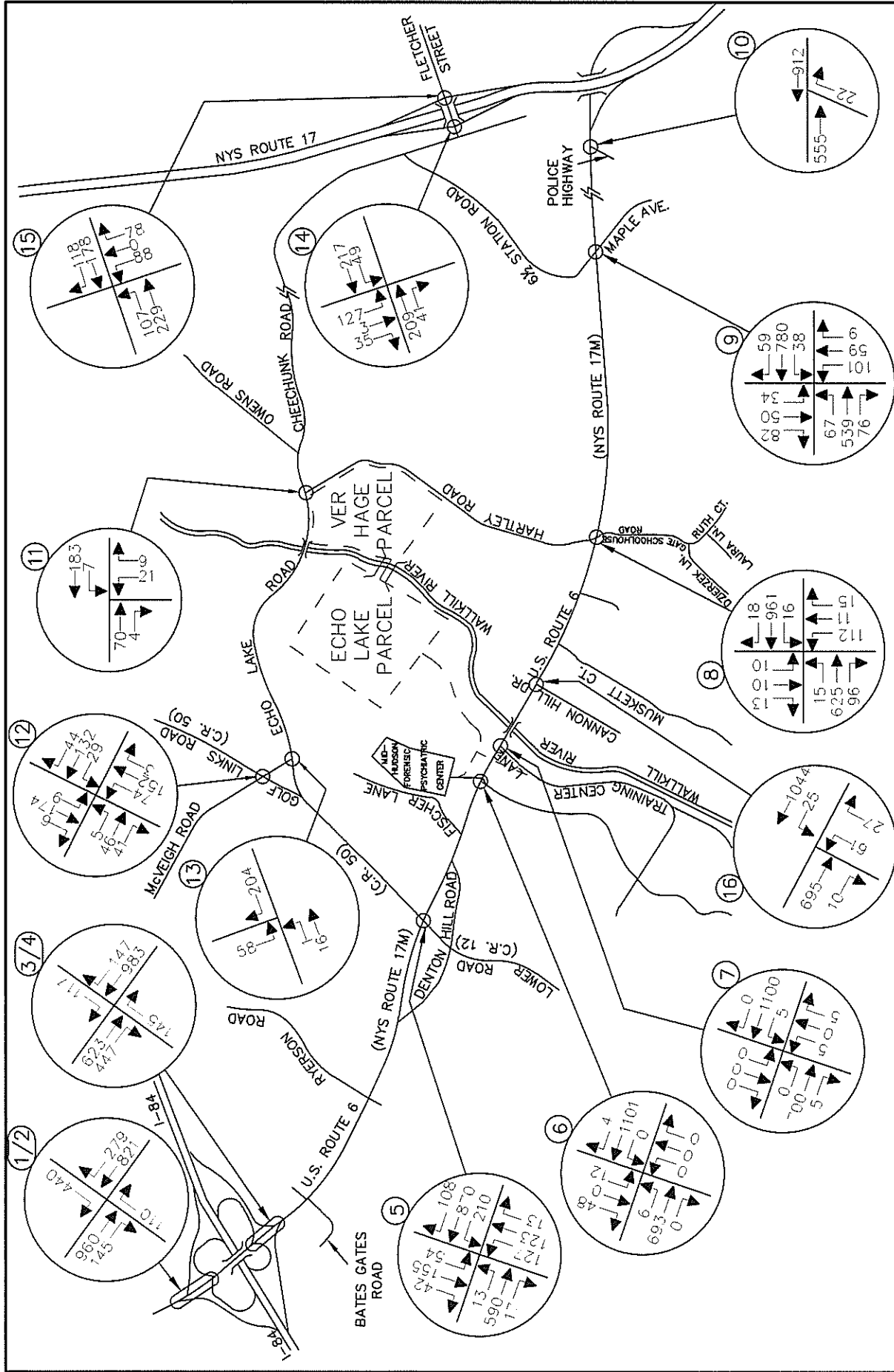
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2015 EXISTING TRAFFIC VOLUMES
WEEKDAY PM PEAK HOUR OF AMY'S KITCHEN GENERATION
 (3:00 PM - 4:00 PM)

JOB NUMBER: 13001659B
FIGURE NUMBER: 4

DATE: 03/24/16



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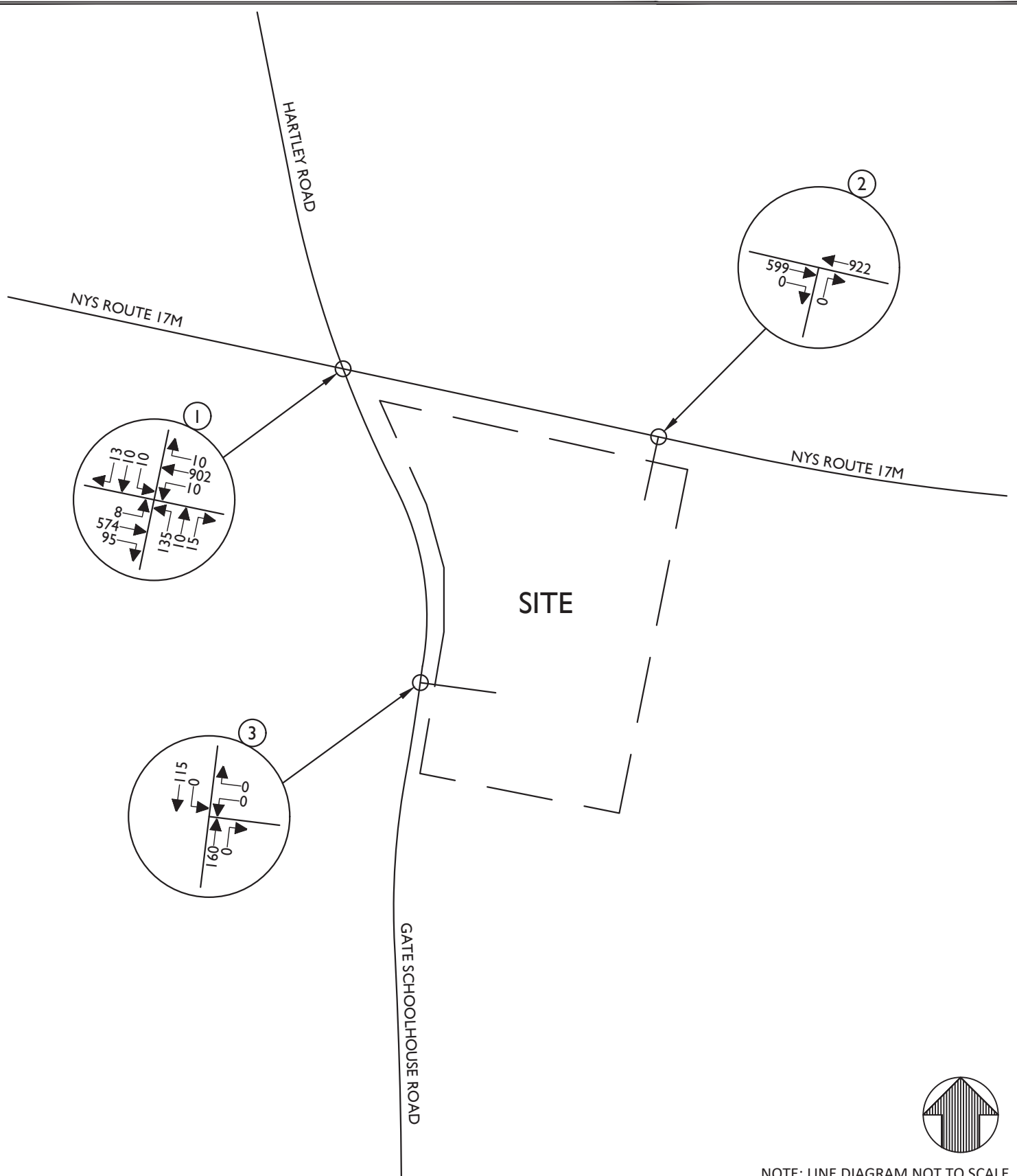
AMY'S KITCHEN AND SCIENCE OF THE SOUL
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2015 EXISTING TRAFFIC VOLUMES
 WEEKDAY PM PEAK HIGHWAY HOUR
 (4:30 PM - 5:30 PM)

JOB NUMBER: 13001659B
DATE: 03/24/16
FIGURE NUMBER: 5

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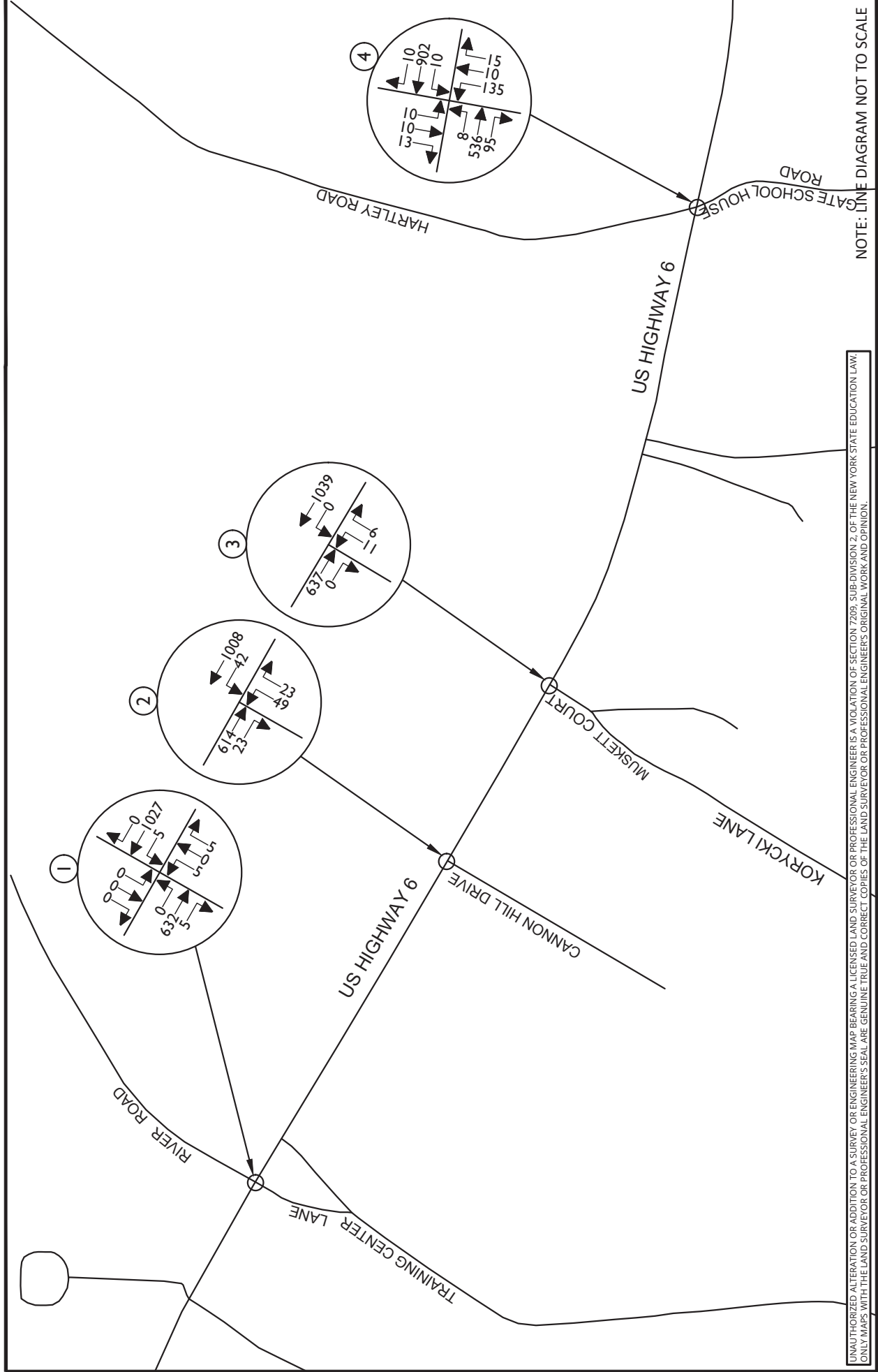
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PROJECT NUMBER:	DRAWING NAME:		
20005729A	220201JFM_FIGURES		

SHEET TITLE:
**2022 EXISTING TRAFFIC VOLUMES
WEEKDAY PEAK PM HOUR**

SHEET NUMBER:

3



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SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	8/8/23	P.T.V.	RD
PROJECT NUMBER:	DRAWING NAME:		
23005606A	230517PTV.FIGURE		
SHEET TITLE:		FIELD BOOK: XX	
2023 EXISTING TRAFFIC VOLUMES		PAGE XX	
WEEKDAY PEAK PM HOUR			
SHEET NUMBER:		3	

**APPENDIX B-9: PEAK AM HOUR AND PM HOUR LEVEL OF SERVICE
SUMMARY TABLES FROM PREVIOUS TRAFFIC STUDIES**

LEVEL OF SERVICE SUMMARY TABLES – WEEKDAY PEAK AM HOUR

TABLE NO. 2 (CONTINUED)

LEVEL OF SERVICE SUMMARY TABLE

2033 BUILD CONDITIONS - WEEKDAY AM PEAK HOUR OF AMY'S GENERATION (6:00 AM - 7:00 AM)

		2015 EXISTING			2033 NO-BUILD			2033 BUILD			CHANGE IN DELAY NO-BUILD TO BUILD
		V/C	LOS	DELAY	V/C	LOS	DELAY	V/C	LOS	DELAY	
8	U.S. ROUTE 6/NYS ROUTE 17M & GATE SCHOOLHOUSE ROAD/ HARTLEY ROAD										
	ROUTE 6/17M EB LTR	0.80	A	6.7	0.85	A	9.6	0.87	B	11.4	1.8
	ROUTE 6/17M WB LTR	0.26	A	3.3	0.27	A	3.0	0.33	A	3.3	0.3
	GATE SCHOOLHOUSE ROAD NB LTR	0.19	B	17.7	0.25	C	21.7	0.33	C	23.4	1.7
	HARTLEY ROAD SB LTR	0.05	B	17.5	0.06	C	21.1	0.10	C	22.8	1.7
	OVERALL	-	A	6.6	-	A	8.9	-	B	10.3	1.4
9	U.S. ROUTE 6/NYS ROUTE 17M & 6 1/2 STATION ROAD/ MAPLE AVENUE										
	ROUTE 6/17M EB L	0.09	A	9.8	0.10	A	9.9	0.10	B	11.2	1.3
	ROUTE 6/17M WB L	0.90	B	12.6	0.92	B	14.9	0.92	B	15.8	0.9
	ROUTE 6/17M TR	0.09	C	23.0	0.11	C	26.4	0.12	C	27.1	0.7
	6 1/2 STATION ROAD NB LTR	0.74	C	20.7	0.80	C	23.7	0.83	C	23.1	-0.6
	MAPLE AVENUE SB LTR	0.22	C	22.5	0.22	C	25.7	0.23	C	26.3	0.6
	OVERALL	0.18	C	22.5	0.26	C	25.7	0.26	C	26.3	0.6
		-	B	15.0	-	B	17.4	-	B	18.3	0.9
10	U.S. ROUTE 6/NYS ROUTE 17M & POLICE HIGHWAY										
	UNSIGNALIZED NB R	0.13	C	16.5	0.16	C	18.3	0.16	B	18.7	0.4
11	HARTLEY ROAD & ECHO LAKE ROAD/CHEECHUNK ROAD										
	UNSIGNALIZED WB LT	0.01	A	7.5	0.01	A	7.5	0.02	A	7.5	0.0
	NB LR	0.01	A	9.3	0.01	A	9.4	0.01	A	9.4	0.0
12	GOLF LINKS ROAD & McVEIGH ROAD										
	UNSIGNALIZED										
	McVEIGH ROAD EB LTR	0.15	B	10.9	0.19	B	11.6	0.20	B	11.7	0.1
	McVEIGH ROAD WB LTR	0.05	B	11.7	0.06	B	12.8	0.07	B	13.0	0.2
	GOLF LINKS ROAD NB LTR	0.03	A	7.5	0.04	A	7.6	0.04	A	7.6	0.0
	GOLF LINKS ROAD SB LTR	0.01	A	7.5	0.01	A	7.6	0.01	A	7.6	0.0
	WITH ALL-WAY STOP CONTROL ²										
	McVEIGH ROAD EB LTR	-	-	-	0.04	A	8.0	0.04	A	8.1	0.1
	McVEIGH ROAD WB LTR	-	-	-	0.16	A	8.4	0.17	A	8.4	0.0
	GOLF LINKS ROAD NB LTR	-	-	-	0.27	A	9.2	0.27	A	9.3	0.1
	GOLF LINKS ROAD SB LTR	-	-	-	0.14	A	8.4	0.16	A	8.5	0.1

NOTES:

1) THE ABOVE REPRESENTS THE LEVEL OF SERVICE AND VEHICLE DELAY IN SECONDS, C (16.2), FOR EACH KEY APPROACH OF THE UNSIGNALIZED INTERSECTIONS AS WELL AS FOR EACH APPROACH AND THE OVERALL INTERSECTION FOR THE SIGNALIZED INTERSECTIONS. SEE APPENDIX "C" FOR A DESCRIPTION OF THE LEVELS OF SERVICE.

2) THE INTERSECTION OF GOLF LINKS ROAD AND McVEIGH ROAD WILL OPERATE AT IMPROVED LEVELS OF SERVICE AS AN "ALL WAY" STOP CONTROL REGARDLESS OF THE PROPOSED PROJECT.

TABLE NO. 3 (CONTINUED)
LEVEL OF SERVICE SUMMARY TABLE
2033 BUILD CONDITIONS - WEEKDAY AM PEAK HIGHWAY HOUR (7:30 AM - 8:30 AM)

	2015 EXISTING				2033 NO-BUILD				2033 BUILD				CHANGE IN DELAY NO-BUILD TO BUILD		
	V/C	LOS	DELAY		V/C	LOS	DELAY		V/C	LOS	DELAY				
8	U.S. ROUTE 6/NYS ROUTE 17M & GATE SCHOOLHOUSE ROAD/ HARTLEY ROAD ROUTE 6/17M EB LTR ROUTE 6/17M WB LTR GATE SCHOOLHOUSE ROAD NB LTR HARTLEY ROAD SB LTR OVERALL <u>WITH TRAFFIC SIGNAL TIMING IMPROVEMENTS</u> ROUTE 6/17M EB LTR ROUTE 6/17M WB LTR GATE SCHOOLHOUSE ROAD NB LTR HARTLEY ROAD SB LTR OVERALL	0.83	B	10.1		0.90	B	17.4		0.92	C	20.6	3.2		
		0.51	A	5.3		0.55	A	5.7		0.58	A	6.2	0.5		
		0.40	C	21.1		0.47	C	25.6		0.49	C	26.4	0.8		
		0.14	C	20.1		0.16	C	24.1		0.16	C	24.6	0.5		
		-	A	9.5		-	B	14.2		-	B	16.1	1.9		
		-	-	-		-	-	-		0.92	B	19.6	-		
		-	-	-		-	-	-		0.57	A	6.0	2.2		
		-	-	-		-	-	-		0.5	C	27.2	0.3		
		-	-	-		-	-	-		0.16	C	25.3	1.6		
		-	-	-		-	-	-		-	B	15.6	1.2		
		-	-	-		-	-	-		-	B	15.6	1.4		
		9	U.S. ROUTE 6/NYS ROUTE 17M & 6 1/2 STATION ROAD/ MAPLE AVENUE ROUTE 6/17M EB L ROUTE 6/17M WB L ROUTE 6/17M TR 6 1/2 STATION ROAD NB LTR MAPLE AVENUE SB LTR OVERALL	0.10	B	18.8		0.11	C	21.5		0.10	C	23.6	2.1
				0.92	B	15.6		0.94	C	22.3		0.98	D	36.6	14.3
				0.22	C	27.1		0.28	C	32.4		0.33	D	39.6	7.2
0.88	B			18.9		0.91	C	21.4		0.93	C	29.5	8.1		
0.27	C			23.9		0.31	C	28.0		0.34	C	34.1	6.1		
0.45	C			25.1		0.51	C	29.5		0.56	D	36.0	6.5		
10	U.S. ROUTE 6/NYS ROUTE 17M & POLICE HIGHWAY NB R	0.17	C	17.0		0.21	C	19.1		0.22	C	19.6	0.5		
		11	HARTLEY ROAD & ECHO LAKE ROAD & CHEECHUNK ROAD UNSIGNALIZED WB LT NB LR	0.00	A	7.7		0.00	A	7.7		0.01	A	7.7	0.0
0.02	B			10.1		0.02	B	10.1		0.02	A	10.1	0.0		
12	GOLF LINKS ROAD & McVEIGH ROAD McVEIGH ROAD EB LTR McVEIGH ROAD WB LTR GOLF LINKS ROAD NB LTR GOLF LINKS ROAD SB LTR <u>WITH ALL-WAY STOP CONTROL²</u> McVEIGH ROAD EB LTR McVEIGH ROAD WB LTR GOLF LINKS ROAD NB LTR GOLF LINKS ROAD SB LTR			0.22	B	11.6		0.27	B	12.5		0.27	B	12.6	0.1
				0.23	B	13.4		0.29	C	15.4		0.29	C	15.6	0.2
		0.03	A	7.5		0.04	A	7.5		0.04	A	7.5	0.0		
		0.01	A	7.5		0.01	A	7.5		0.01	A	7.6	0.1		
		-	-	-		0.19	A	9.1		0.19	A	9.1	0.0		
		-	-	-		0.23	A	9.1		0.23	A	9.2	0.1		
		-	-	-		0.27	A	9.8		0.27	A	9.8	0.0		
		-	-	-		0.15	A	9.0		0.15	A	9.0	0.0		

NOTES:

1) THE ABOVE REPRESENTS THE LEVEL OF SERVICE AND VEHICLE DELAY IN SECONDS. C (16.2). FOR EACH KEY APPROACH OF THE UNSIGNALIZED INTERSECTIONS AS WELL AS FOR EACH APPROACH AND THE OVERALL INTERSECTION FOR THE SIGNALIZED INTERSECTIONS. SEE APPENDIX "C" FOR A DESCRIPTION OF THE LEVELS OF SERVICE.

2) THE INTERSECTION OF GOLF LINKS ROAD AND McVEIGH ROAD WILL OPERATE AT IMPROVED LEVELS OF SERVICE AS AN "ALL WAY" STOP CONTROL REGARDLESS OF THE PROPOSED PROJECT.

Table No. 2
Level of Service Summary Table
Weekday Peak AM Hour

Dunkin Donuts

				2022 Existing			2025 No-Build			2025 Build			Change in Delay No-Build to Build
	v/c	LOS	Delay	v/c	LOS	Delay	v/c	LOS	Delay	v/c	LOS	Delay	
1	NYS Route 17M & Gate Schoolhouse Road/Hartley Road			Signalized									
	NYS Route 17M	EB	LTR	0.86	B	15.8	0.98	D	51.4	1.05	F	80.2	28.8
		EB Approach		-	B	15.8	-	D	51.4	-	F	80.2	28.8
	NYS Route 17M	WB	LTR	0.46	A	5.0	0.52	A	5.5	0.62	A	6.8	1.3
		WB Approach		-	A	5.0	-	A	5.5	-	A	6.8	1.3
	Gate Schoolhouse Road	NB	LTR	0.42	C	22.5	0.49	C	26.6	0.54	C	26.6	0.0
		NB Approach		-	C	22.5	-	C	26.6	-	C	26.6	0.0
	Hartley Road	SB	LTR	0.11	C	21.1	0.13	C	24.5	0.14	C	24.1	-0.4
		SB Approach		-	C	21.1	-	C	24.5	-	C	24.1	-0.4
		Overall		-	B	12.8	-	C	33.5	-	D	50.0	16.5
	<u>W/Left Lanes & Signal Timing Improvements</u>												
	NYS Route 17M	EB	L	-	-	-	-	-	-	0.05	A	7.7	-
			TR	-	-	-	-	-	-	0.98	D	52.5	-
		EB Approach		-	-	-	-	-	-	-	D	52.1	-
	NYS Route 17M	WB	L	-	-	-	-	-	-	0.54	F	81.8	-
			TR	-	-	-	-	-	-	0.49	A	6.1	-
		WB Approach		-	-	-	-	-	-	-	A	9.8	-
	Gate Schoolhouse Road	NB	LTR	-	-	-	-	-	-	0.72	D	54.5	-
		NB Approach		-	-	-	-	-	-	-	D	54.5	-
	Hartley Road	SB	LTR	-	-	-	-	-	-	0.18	D	42.9	-
		SB Approach		-	-	-	-	-	-	-	D	42.9	-
		Overall		-	-	-	-	-	-	-	D	38.3	-
2	NYS Route 17M & Site Access			Unsignalized									
	Site Access	NB	R	-	-	-	-	-	-	0.23	C	24.2	-
3	Gate Schoolhouse Road & Site Access			Unsignalized									
	Site Access	WB	LR	-	-	-	-	-	-	0.05	A	9.7	-
	Gate Schoolhouse Road	SB	LT	-	-	-	-	-	-	0.03	A	7.7	-

NOTES:

- 1) THE ABOVE REPRESENTS THE LEVEL OF SERVICE AND VEHICLE DELAY IN SECONDS, C [16.2], FOR EACH KEY APPROACH OF THE UNSIGNALIZED INTERSECTIONS AS WELL AS FOR EACH APPROACH AND THE OVERALL INTERSECTION FOR THE SIGNALIZED INTERSECTIONS. SEE APPENDIX "C" FOR A DESCRIPTION OF THE LEVELS OF SERVICE.

Table No. 2
Level of Service Summary Table
Weekday Peak AM Hour

Goshen Redi-Mix

				2023 Existing			2026 No-Build			2026 Build			Change in Delay
				v/c	LOS	Delay	v/c	LOS	Delay	v/c	LOS	Delay	No-Build to Build
3	US Highway 6/Highway 17M & Muskett Court	Unsignalized											
			US Highway 6/17M WB LT	0.01	B	10.4	0.01	B	10.4	0.03	B	12.4	2.0
			Muskett Court NB LR	0.02	E	45.1	0.044	F	81.9	0.21	F	76.5	-5.4
4	US Highway 6/Highway 17M & Gate Schoolhouse Road/Hartley Road	Signalized											
			US Highway 6/17M EB LTR	0.91	B	17.3	1.19	F	108.9	1.21	F	118.1	9.2
			EB Approach	-	B	17.3	-	F	108.9	-	F	118.1	9.2
			US Highway 6/17M WB LTR	0.56	A	5.9	0.82	B	13.4	0.84	B	15.0	1.6
			WB Approach	-	A	5.9	-	B	13.4	-	B	15.0	1.6
			Gate Schoolhouse Road NB LTR	0.55	C	27.5	0.66	C	30.5	0.66	C	30.5	0.0
			NB Approach	-	C	27.5	-	C	30.5	-	C	30.5	0.0
			Hartley Road SB LTR	0.15	C	24.8	0.19	C	26.6	0.26	C	27.2	0.6
			SB Approach	-	C	24.8	-	C	26.6	-	C	27.2	0.6
			Overall	-	B	14.5	-	E	68.7	-	E	74.1	5.4
			<u>With Turning Lane and Traffic Signal Timing Modifications</u>										
			US Highway 6/17M EB L	-	-	-	0.08	A	7.6	0.08	A	7.8	0.2
			TR	-	-	-	1.10	F	67.6	1.10	F	69.3	1.7
			EB Approach	-	-	-	-	E	67.0	-	E	68.7	1.7
			US Highway 6/17M WB L	-	-	-	0.45	D	42.0	0.45	D	42.0	0.0
			TR	-	-	-	0.55	A	4.8	0.56	A	4.9	0.1
			WB Approach	-	-	-	-	A	6.7	-	A	6.8	0.1
			Gate Schoolhouse Road NB LTR	-	-	-	0.8	D	50.1	0.81	D	50.8	0.7
			NB Approach	-	-	-	-	D	50.1	-	D	50.8	0.7
			Hartley Road SB LTR	-	-	-	0.25	C	33.6	0.25	C	33.6	0.0
			SB Approach	-	-	-	-	C	33.6	-	C	33.6	0.0
			Overall	-	-	-	-	D	45.1	-	D	46.0	0.9

NOTES:

- 1) THE ABOVE REPRESENTS THE LEVEL OF SERVICE AND VEHICLE DELAY IN SECONDS, C [16.2], FOR EACH KEY APPROACH OF THE UNSIGNALIZED INTERSECTIONS AS WELL AS FOR EACH APPROACH AND THE OVERALL INTERSECTION FOR THE SIGNALIZED INTERSECTIONS. SEE APPENDIX "C" FOR A DESCRIPTION OF THE LEVELS OF SERVICE.

LEVEL OF SERVICE SUMMARY TABLES – WEEKDAY PEAK AM HOUR

TABLE NO. 4 (CONTINUED)

LEVEL OF SERVICE SUMMARY TABLE
2033 BUILD CONDITIONS - WEEKDAY PM PEAK HOUR OF AMY'S GENERATION (3:00 PM - 4:00 PM)

		2015 EXISTING			2033 NO-BUILD			2033 BUILD			CHANGE IN DELAY NO-BUILD TO BUILD	
		V/C	LOS	DELAY	V/C	LOS	DELAY	V/C	LOS	DELAY		
8	U.S. ROUTE 6/NYS ROUTE 17M & GATE SCHOOLHOUSE ROAD/ HARTLEY ROAD											
	ROUTE 6/17M	0.59	A	6.2	0.64	A	7.1	0.71	A	9.0	1.9	
	WB LTR	0.78	A	8.4	0.86	B	13.7	0.91	B	19.0	5.3	
	ROUTE 6/17M	0.41	B	19.3	0.48	C	24.2	0.53	C	26.2	2.0	
	SB LTR	0.09	B	18.1	0.10	C	22.2	0.13	C	23.8	1.6	
	OVERALL	-	A	8.6	-	B	12.2	-	B	15.8	3.6	
9	U.S. ROUTE 6/NYS ROUTE 17M & 6 1/2 STATION ROAD/ MAPLE AVENUE											
	ROUTE 6/17M	0.32	C	30	0.43	D	38.1	0.48	D	42.1	4.0	
	WB LTR	0.89	C	21.8	0.92	C	26.7	0.93	C	32.3	5.6	
	ROUTE 6/17M	0.07	B	19.2	0.08	C	23.7	0.09	C	26.8	3.1	
	WB LTR	0.92	B	18.7	0.95	C	29.2	0.97	D	36.3	7.1	
	6 1/2 STATION ROAD	0.47	C	26.1	0.59	C	32.2	0.62	D	35.9	3.7	
	MAPLE AVENUE	0.51	C	26.2	0.51	C	31.2	0.52	C	34.0	2.8	
	OVERALL	-	C	21.4	-	C	29.1	-	C	34.9	5.8	
10	U.S. ROUTE 6/NYS ROUTE 17M & POLICE HIGHWAY	0.05	B	12.4	0.06	B	13.2	0.06	B	13.9	0.7	
11	HARTLEY ROAD & ECHO LAKE ROAD/CHEECHUNK ROAD											
	WB LTR	0.01	A	7.5	0.01	A	7.5	0.02	A	7.5	0.0	
	WB LTR	0.05	B	10.8	0.06	B	11.1	0.06	B	11.0	-0.1	
12	GOLF LINKS ROAD & McVEIGH ROAD											
	McVEIGH ROAD	0.27	B	14.3	0.36	C	16.7	0.38	C	17.2	0.5	
	WB LTR	0.90	F	56.4	1.16	F	135.3	1.21	F	153.9	18.6	
	GOLF LINKS ROAD	0.05	A	7.8	0.07	A	8.0	0.07	A	8.0	0.0	
	WB LTR	0.01	A	7.7	0.01	A	7.7	0.02	A	7.8	0.1	
	WITH ALL-WAY STOP CONTROL ²											
	McVEIGH ROAD	-	-	-	0.66	C	20.3	0.67	C	20.9	0.6	
	WB LTR	-	-	-	0.31	C	12.3	0.32	B	12.6	0.3	
	GOLF LINKS ROAD	-	-	-	0.55	B	17.0	0.57	C	17.9	0.9	
	WB LTR	-	-	-	0.47	C	15.2	0.49	C	15.8	0.6	

NOTES:

1) THE ABOVE REPRESENTS THE LEVEL OF SERVICE AND VEHICLE DELAY IN SECONDS, C (16.2), FOR EACH KEY APPROACH OF THE UNSIGNALIZED INTERSECTIONS AS WELL AS FOR EACH APPROACH AND THE OVERALL INTERSECTION FOR THE SIGNALIZED INTERSECTIONS. SEE APPENDIX "C" FOR A DESCRIPTION OF THE LEVELS OF SERVICE.

2) THE INTERSECTION OF GOLF LINKS ROAD AND McVEIGH ROAD WILL OPERATE AT IMPROVED LEVELS OF SERVICE AS AN "ALL WAY" STOP CONTROL REGARDLESS OF THE PROPOSED PROJECT.

TABLE NO. 5 (CONTINUED)

LEVEL OF SERVICE SUMMARY TABLE
2033 BUILD CONDITIONS - WEEKDAY PM PEAK HIGHWAY HOUR (4:30 PM - 5:30 PM)

		2015 EXISTING			2033 NO-BUILD			2033 BUILD			CHANGE IN DELAY NO-BUILD TO BUILD
		V/C	LOS	DELAY	V/C	LOS	DELAY	V/C	LOS	DELAY	
8	U.S. ROUTE 6/NYS ROUTE 17M & GATE SCHOOLHOUSE ROAD/ HARTLEY ROAD	SIGNALIZED									
	ROUTE 6/17M	EB	LTR	5.9	0.65	A	6.9	0.67	A	7.4	0.5
		WB	LTR	8.2	0.87	B	13.9	0.89	B	15.7	1.8
		NB	LTR	19.6	0.46	C	24.6	0.48	C	25.4	0.8
		SB	LTR	18.5	0.12	C	22.8	0.13	C	23.6	0.8
		OVERALL	A	8.4	-	B	12.1	-	B	13.4	1.3
9	U.S. ROUTE 6/NYS ROUTE 17M & 6 1/2 STATION ROAD/ MAPLE AVENUE	SIGNALIZED									
	ROUTE 6/17M	EB	L	27.9	0.46	D	35.0	0.49	D	36.8	1.8
		TR		19.3	0.91	C	23.3	0.92	C	25.6	2.3
		WB	L	20.0	0.10	C	24.6	0.11	C	25.8	1.2
		TR		15.9	0.94	C	24.7	0.94	C	26.9	2.2
		NB	LTR	24.3	0.56	C	29.5	0.57	C	30.8	1.3
		SB	LTR	24.4	0.49	C	28.8	0.49	C	30.0	1.2
	6 1/2 STATION ROAD MAPLE AVENUE	OVERALL	B	19.1	-	C	25.4	-	C	27.4	2.0
10	U.S. ROUTE 6/NYS ROUTE 17M & POLICE HIGHWAY	UNSIGNALIZED			0.05	B	12.5	0.06	B	13.4	0.2
11	HARTLEY ROAD & ECHO LAKE ROAD/CHEECHUNK ROAD	UNSIGNALIZED									
		WB	LT	7.4	0.01	A	7.4	0.01	A	7.4	0.0
12	GOLF LINKS ROAD & MCVEIGH ROAD	UNSIGNALIZED									
	McVEIGH ROAD	EB	LTR	13.5	0.20	B	14.9	0.26	B	14.9	0.0
		WB	LTR	26.2	0.58	D	41.8	0.76	E	43.2	1.4
		NB	LTR	7.8	0.06	A	8.0	0.08	A	8.0	0.0
		SB	LTR	7.6	0.01	A	7.7	0.01	A	7.7	0.0
		OVERALL	A	7.6	0.01	A	7.7	0.01	A	7.7	0.0
	WITH ALL-WAY STOP CONTROL ² McVEIGH ROAD	EB	LTR	-	-	B	12.2	0.39	B	12.3	0.1
		WB	LTR	-	-	B	10.1	0.20	B	10.2	0.1
		NB	LTR	-	-	B	13.1	0.45	B	13.2	0.1
		SB	LTR	-	-	B	12.0	0.39	B	12.1	0.1
		OVERALL	A	-	-	B	12.0	0.39	B	12.1	0.1

NOTES:

- 1) THE ABOVE REPRESENTS THE LEVEL OF SERVICE AND VEHICLE DELAY IN SECONDS, C [16.2], FOR EACH KEY APPROACH OF THE UNSIGNALIZED INTERSECTIONS AS WELL AS FOR EACH APPROACH AND THE OVERALL INTERSECTION FOR THE SIGNALIZED INTERSECTIONS. SEE APPENDIX "C" FOR A DESCRIPTION OF THE LEVELS OF SERVICE.
- 2) THE INTERSECTION OF GOLF LINKS ROAD AND MCVEIGH ROAD WILL OPERATE AT IMPROVED LEVELS OF SERVICE AS AN "ALL WAY" STOP CONTROL REGARDLESS OF THE PROPOSED PROJECT

Table No. 2
Level of Service Summary Table
Weekday Peak PM Hour

Dunkin Donuts

				2022 Existing			2025 No-Build			2025 Build			Change in Delay No-Build to Build
				v/c	LOS	Delay	v/c	LOS	Delay	v/c	LOS	Delay	
1	NYS Route 17M & Gate Schoolhouse Road/Hartley Road	Signalized											
	NYS Route 17M	EB	LTR	0.64	A	6.7	0.68	A	7.4	0.70	A	8.3	0.9
		EB	Approach	-	A	6.7	-	A	7.4	-	A	8.3	0.9
	NYS Route 17M	WB	LTR	0.77	B	10.1	0.85	B	18.5	0.87	C	21.4	2.9
		WB	Approach	-	B	10.1	-	B	18.5	-	C	21.4	2.9
	Gate Schoolhouse Road	NB	LTR	0.38	B	16.7	0.47	C	23.0	0.50	C	24.2	1.2
		NB	Approach	-	B	16.7	-	C	23.0	-	C	24.2	1.2
	Hartley Road	SB	LTR	0.08	B	15.7	0.11	C	21.2	0.11	C	22.0	0.8
		SB	Approach	-	B	15.7	-	C	21.2	-	C	22.0	0.8
		Overall		-	A	9.5	-	B	14.8	-	B	16.7	1.9
	<u>W/Left Lanes & Signal Timing Improvements</u>												
	NYS Route 17M	EB	L	-	-	-	-	-	-	0.06	C	25.5	-
			TR	-	-	-	-	-	-	0.74	B	11.6	-
		EB	Approach	-	-	-	-	-	-	-	B	11.8	-
	NYS Route 17M	WB	L	-	-	-	-	-	-	0.07	B	14.0	-
			TR	-	-	-	-	-	-	0.89	C	23.0	-
		WB	Approach	-	-	-	-	-	-	-	C	22.8	-
	Gate Schoolhouse Road	NB	LTR	-	-	-	-	-	-	0.53	C	26.6	-
		NB	Approach	-	-	-	-	-	-	-	C	26.6	-
	Hartley Road	SB	LTR	-	-	-	-	-	-	0.11	C	24.2	-
		SB	Approach	-	-	-	-	-	-	-	C	24.2	-
		Overall		-	-	-	-	-	-	-	B	19.0	-
2	NYS Route 17M & Site Access	Unsignalized											
	Site Access	NB	R	-	-	-	-	-	-	0.06	B	14.4	-
3	Gate Schoolhouse Road & Site Access	Unsignalized											
	Site Access	WB	LR	-	-	-	-	-	-	0.02	A	9.5	-
	Gate Schoolhouse Road	SB	LT	-	-	-	-	-	-	0.01	A	7.6	-

NOTES:

- 1) THE ABOVE REPRESENTS THE LEVEL OF SERVICE AND VEHICLE DELAY IN SECONDS, C [16.2], FOR EACH KEY APPROACH OF THE UNSIGNALIZED INTERSECTIONS AS WELL AS FOR EACH APPROACH AND THE OVERALL INTERSECTION FOR THE SIGNALIZED INTERSECTIONS. SEE APPENDIX "C" FOR A DESCRIPTION OF THE LEVELS OF SERVICE.

Table No. 2
Level of Service Summary Table
Weekday Peak PM Hour

Goshen Redi-Mix

				2023 Existing			2026 No-Build			2026 Build			Change in Delay No-Build to Build
				v/c	LOS	Delay	v/c	LOS	Delay	v/c	LOS	Delay	
3	US Highway 6/Highway 17M & Muskett Court	Unsignalized											
	US Highway 6/17M Muskett Court	WB LT		0.00	A	0.0	0.00	A	0.0	0.01	A	9.6	9.6
		NB LR		0.16	E	40.7	0.28	F	79.5	0.67	F	130.5	51.0
4	US Highway 6/Highway 17M & Gate Schoolhouse Road/Hartley Road	Signalized											
	US Highway 6/17M	EB LTR		0.60	A	6.5	0.67	A	8.6	0.72	B	12.0	3.4
		EB Approach		-	A	6.5	-	A	8.6	-	B	12.0	3.4
	US Highway 6/17M	WB LTR		0.84	A	9.1	1.01	F	39.8	1.08	F	66.0	26.2
		WB Approach		-	A	9.1	-	D	39.8	-	F	66.0	26.2
	Gate Schoolhouse Road	NB LTR		0.48	C	20.2	0.62	C	30.6	0.66	C	32.6	2.0
		NB Approach		-	C	20.2	-	C	30.6	-	C	32.6	2.0
	Hartley Road	SB LTR		0.10	B	18	0.13	C	26.6	0.11	C	25.1	-1.5
		SB Approach		-	B	18	-	C	26.6	-	C	25.1	-1.5
		Overall		-	A	9.3	-	C	27.6	-	D	43.0	15.4
	<u>With Turning Lane and Traffic Signal Timing Modifications</u>												
	US Highway 6/17M	EB L		-	-	-	0.06	C	23.7	0.06	C	23.9	0.2
		TR		-	-	-	0.73	A	8.7	0.74	A	8.9	0.2
		EB Approach		-	-	-	-	A	8.8	-	A	9.0	0.2
	US Highway 6/17M	WB L		-	-	-	0.09	B	12.9	0.09	B	13.2	0.3
		TR		-	-	-	0.94	C	20.3	0.94	C	20.7	0.4
		WB Approach		-	-	-	-	C	20.1	-	C	20.5	0.4
	Gate Schoolhouse Road	NB LTR		-	-	-	0.51	C	23.9	0.51	C	24.1	0.2
		NB Approach		-	-	-	-	C	23.9	-	C	24.1	0.2
	Hartley Road	SB LTR		-	-	-	0.11	C	21.7	0.11	C	21.8	0.1
		SB Approach		-	-	-	-	C	21.7	-	C	21.8	0.1
		Overall		-	-	-	-	B	16.5	-	B	16.7	0.2

NOTES:

- 1) THE ABOVE REPRESENTS THE LEVEL OF SERVICE AND VEHICLE DELAY IN SECONDS, C [16.2], FOR EACH KEY APPROACH OF THE UNSIGNALIZED INTERSECTIONS AS WELL AS FOR EACH APPROACH AND THE OVERALL INTERSECTION FOR THE SIGNALIZED INTERSECTIONS. SEE APPENDIX "C" FOR A DESCRIPTION OF THE LEVELS OF SERVICE.

**APPENDIX B-10: AIREACTOR INC. MATERIAL SAFETY DATA SHEET –
CHERRY PLUS 5 DEODORANT**



— THE PRESCRIPTION FOR ODOR CONTROL SINCE 1930 —

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: **CHERRY PLUS 5
DEODORANT**

PRODUCT #: 9910

PRODUCT TYPE: Deodorizer

CHEMICAL FAMILY: Surfactant Blend

SUPPLIER'S NAME:
Airreactor

SUPPLIER'S ADDRESS:
5 Railroad Place
Maspeth, NY 11378

EMERGENCY PHONE: 800-535-5053

DATE ISSUED: 3/2003

DOT CLASSIFICATION: None

DOT SHIPPING NAME: None

HAZARD RATING:

HEALTH: 1 FLAMMABILITY: 0

REACTIVITY: 0 PERSONAL PROTECTION: B

SECTION 2 - INGREDIENTS INFORMATION

CHEMICAL NAME	CAS NO.	% / WT.	THRESHOLD LIMIT VALUE
NONIONIC SURFACTANT (BLEND)	MIXTURE	TO 15	N/E
FRAGRANCE	N/A	TO 5	N/E
DIDECYL DIMETHYL AMMONIUM CHLORIDE	MIXTURE	TO 1	N/E
*ISOPROPYL ALCOHOL	67-63-0	TO 5	400ppmTWA
WATER	7732-18-5	TO 75	NONE

*An asterisk indicates the toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372.

SECTION 3 - PHYSICAL DATA

BOILING RANGE (F): 212-220 °F
SPECIFIC GRAVITY: 0.995
VAPOR PRESSURE: N/D
VAPOR DENSITY: Same as Water
% VOLATILE: 93-95
pH: 6-7
SOLUBILITY IN WATER: Complete
EVAPORATION RATE: N/A
PHYSICAL DESCRIPTION: Clear Liquid, Cherry Fragrance

SECTION 4 - REACTIVITY DATA

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will Not Occur
INCOMPATIBILITY (MATERIALS TO AVOID): None
HAZARDOUS DECOMPOSITION PRODUCTS: Normal products of combustion

SECTION 5 - FIRE & EXPLOSION HAZARD DATA

FLASH POINT: Exceeds 200 °F
FLAMMABILITY: Non-Flammable
EXTINGUISHING MEDIA: Water, CO₂
SPECIAL FIRE FIGHTING PROCEDURES: Floor may be slippery
UNUSUAL AND EXPLOSION HAZARDS: None

SECTION 6 - STORAGE & HANDLING INFORMATION

SPECIAL PRECAUTIONS: Keep out of reach of children.
Use only in well ventilated area.
For institutional and industrial use only.
For use by trained personnel only.
Store and keep in closed container, in a cool place.
Avoid freezing.

SECTION 7 - HEALTH HAZARD DATA

EYES: May cause irritation.
EXPOSURE LIMITS: N/E
SKIN: May cause irritation.
CARCINOGENICITY:
NTP: Not listed
INHALATION: May cause irritation to upper tract. IARC: Not listed
INGESTION: May cause irritation of mucous membranes. OSHA: Not regulated
MEDICAL CONDITION AGGRAVATED BY EXPOSURE:
Person with present skin disorder may be more susceptible to irritation.

SECTION 8 - FIRST AID PROCEDURE

EYES: Flush with running water for 15 minutes.
SKIN: Wash off with soap and water.
INHALATION: Remove to fresh air.
INGESTION: Do not induce vomiting.
Drink plenty of water.
If unconscious or in convulsion, take to hospital or physician.

SECTION 9 - PRECAUTIONS FOR SAFE HANDLING

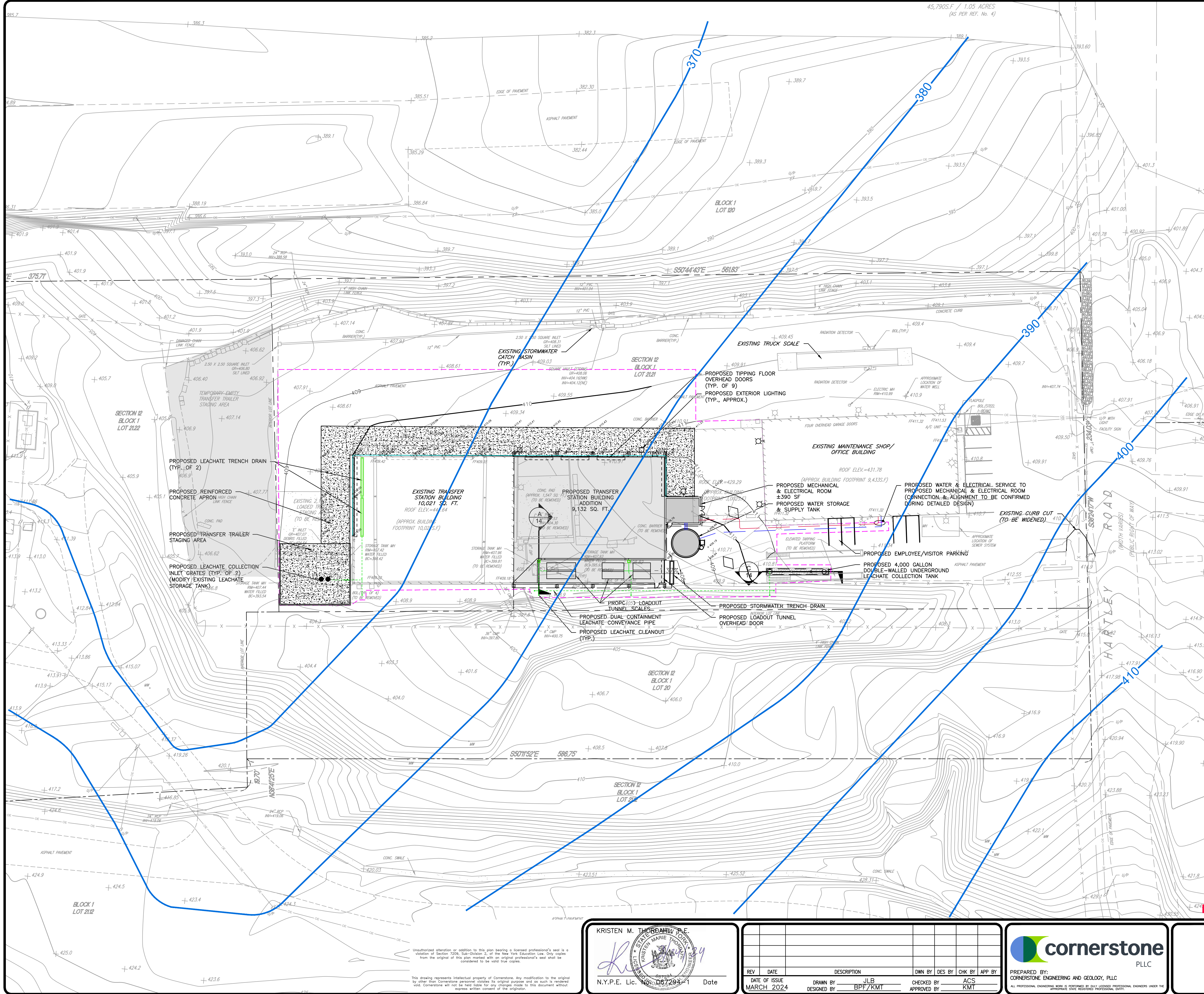
RESPIRATORY PROTECTION: No special requirements.
PROTECTIVE GLOVES: Chemical resistant.
VENTILATION: Good ventilation required.
EYE CONTACT: Goggles or Face Shield.

SECTION 10 - SPILL OR LEAK

SPILLAGE: Dike & contain spill, absorb the liquid.
DISPOSAL: Scoop or shovel solid material into a suitable container for recovery or disposal. Area may become slippery.
Flush cleaned area with water.
Dispose according to local, state and federal requirements.

N/D = Not Determined, N/E = Not Established, N/A = Not Applicable
THIS PRODUCT SAFETY DATA SHEET IS OFFERED SOLELY FOR YOUR INFORMATION, CONSIDERATION AND INVESTIGATION.
DATA SUPPLIED IS FOR USE ONLY IN CONNECTION WITH OCCUPATION SAFETY AND HEALTH.

APPENDIX B-11: 80B PROPOSED SITE PLAN DATED SEPTEMBER 24, 2024

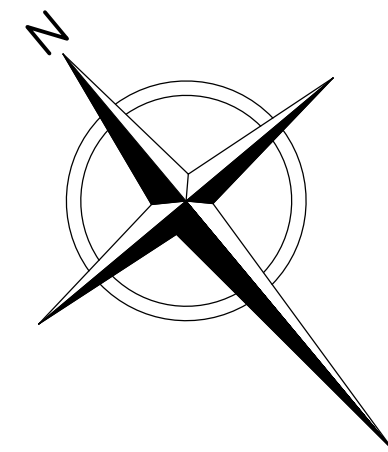


LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- EASEMENT LINE
- RIGHT OF WAY LINE
- EXISTING MINOR CONTOURS
- EXISTING MAJOR CONTOURS (AS LABELED)
- EXISTING GROUND ELEVATION
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING FENCE LINE
- EXISTING CONCRETE
- EXISTING BUILDING
- EXISTING TREE LINE
- EXISTING GUIDE RAIL
- EXISTING CURB LINE
- EXISTING OVERHEAD WIRE
- EXISTING UTILITY POLE
- EXISTING CULVERT
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED STRUCTURE
- PROPOSED DUAL CONTAINMENT LEACHATE CONVEYANCE PIPE
- PROPOSED LEACHATE TRENCH DRAIN
- PROPOSED REINFORCED CONCRETE PAD
- PROPOSED STORMWATER MANAGEMENT PIPING
- PROPOSED STORMWATER TRENCH DRAIN
- LIMIT OF DISTURBANCE (APPROXIMATE)
- GENERALIZED WATER LEVEL ELEV. CONTOUR

NOTES:

- SITE BOUNDARY & TOPOGRAPHY SURVEY, LOT 17.32, 20, 21.21 & 21.22 OF BLOCK 1, PORTIONS OF LOTS 18, 21.12, 112, & 120 OF BLOCK 1, TOWN OF GOSHEN, ORANGE COUNTY, NEW YORK. SHEET 1 OF 1, DATED 3/20/2024, BY DRESDNER ROBIN OF JERSEY CITY, NEW JERSEY.
- HORIZONTAL DATUM IS REFERENCED TO NEW YORK STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM (NAD 83), US SURVEY FEET.
- VERTICAL DATUM BASED UPON NYGEOID 12 GR80, US SURVEY FEET. CONTOUR INTERVAL IS ONE FOOT.
- NO DISPOSAL OF SOLID WASTE OCCURS AT THIS FACILITY. INFORMATION PERTAINING TO THE TYPE AND QUANTITY OF MATERIAL PROCESSED AT THIS FACILITY IS INCLUDED IN THE ATTACHED PART 360 ENGINEERING REPORT AND FACILITY MANUAL. SOLID WASTE IS TRANSFERRED TO PERMITTED DISPOSAL FACILITIES.
- OVERBURDEN WATER LEVEL ELEVATION CONTOURS WERE TAKEN FROM SHEET 1 OF 2, OVERBURDEN WATER LEVEL ELEVATION CONTOURS (ELEVATIONS COLLECTED ON APRIL 6, 2012) PREPARED BY GROUNDWATER INVESTIGATIONS, INC., MONTGOMERY, NY DRAWING PREPARED FOR AL TURI LANDFILL, INC. DATED 5/24/2011. REFER TO ATTACHMENT 6 IN THE PERMIT APPLICATION REPORT.
- DEPTH TO WATER TABLE AT THE SITE IS BETWEEN 10 FEET TO 39 FEET BELOW GRADE.
- THERE ARE NO SURFACE WATER BODIES AT OR NEAR THE SITE. THE CLOSEST WATERBODY IS THE WALKILL RIVER WHICH IS APPROXIMATELY 875 FEET WEST OF THE SITE.
- ATTACHMENT 5 OF THE PERMIT APPLICATION REPORT INCLUDES COPIES OF THE GROUNDWATER QUALITY MONITORING REPORTS PREPARED FOR AL TURI.
- ATTACHMENT 4 OF THE PERMIT APPLICATION REPORT INCLUDES COPIES OF THE RECENT DRINKING WATER SAMPLES.
- THERE ARE THREE BUILDINGS WITHIN CLOSE PROXIMITY OF THE SITE, INCLUDING ON TIME DISPOSAL AND HIG FABRICATIONS THAT ARE LOCATED ALONG HARTLEY ROAD AND AN OCCUPIED BUILDING ON AL TURI'S PROPERTY.
- TEMPORARY EMPTY TRANSFER TRAILER STORE IS SITUATED TO THE WEST OF THE TRANSFER STATION BUILDING. LOADED TRANSFER TRAILERS WILL BE STAGED WITHIN THE PROPOSED TRANSFER TRAILER STAGING AREA.



0 30 60
SCALE IN FEET

PERMIT USE ONLY - NOT FOR CONSTRUCTION

KRISTEN M. THORNTON, P.E.



N.Y.P.E. Lic. No. 067794 Date

REV	DATE	DESCRIPTION	OWN BY	DES BY	CHK BY	APP BY
1	MARCH 2024	DATE OF ISSUE	DESIGNED BY	JLB	ACS	KMT
		CHECKED BY	APPROVED BY			



PREPARED BY:
CORNERSTONE ENGINEERING AND GEOLOGY, PLLC
ALL PROFESSIONAL ENGINEERING WORK IS PERFORMED BY FULLY LICENSED PROFESSIONAL ENGINEERS UNDER THE APPROPRIATE STATE REGISTERED PROFESSIONAL ENTITY.

I.W.S. TRANSFER SYSTEMS OF N.Y., INC.
GOSHEN TRANSFER STATION
95 HARTLEY ROAD, GOSHEN, NEW YORK

PROPOSED FACILITY MODIFICATIONS
PROPOSED SITE PLAN

SHEET NO.

1

PROJECT NO.
4223429

APPENDIX C: PRELIMINARY STORMWATER POLLUTION PREVENTION PLAN

Preliminary Stormwater Pollution Prevention Plan

IWS Goshen Transfer Station Modification

JUNE 2025

REVISED SEPTEMBER 2025

PRESENTED TO

I.W.S. Transfer Systems of N.Y., Inc.

95 Hartley Road
Goshen, New York 10924

SUBMITTED BY

Cornerstone Engineering and Geology, PLLC
100 Crystal Run Road, Ste. 101
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REPORT CERTIFICATION

The material and data in this report were prepared under the supervision and direction of the undersigned.



9/18/2025

Kristen M. Thordahl, P.E.
Project Engineer

Date



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APPENDICES

Appendix A	NYSDEC General Permit for Stormwater Discharges From Construction Activity Permit No. GP-0-25-001
Appendix B	Letters From NYS OPRHP
Appendix C	Notice of Intent (NOI)
Appendix D	Certification Statements
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Appendix F	Notice of Termination (NOT) and Letter of Authorization (LOA)
Appendix G	Construction Duration Inspection Reports & Photo Logs

ACRONYMS/ABBREVIATIONS

Acronyms/Abbreviations	Definition
CWA	Clean Water Act
ECL	Environmental Conservation Law
FIRM	Flood Insurance Rate Map
MS4	Municipal Separate Storm Sewer System
NTS	Not to Scale
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
OPRHP	Office of Parks, Recreation and Historic Preservation
SCS	Soil Conservation Service
SHPA	State Historic Preservation Act
SMDM	Stormwater Management Design Manual (NYS)
SPDES	State Pollutant Discharge Elimination System
SWPPP	Stormwater Pollution Prevention Plan
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture

1.0 INTRODUCTION

This Preliminary Stormwater Pollution Prevention Plan (SWPPP) has been prepared for the expansion activities at the Goshen Transfer Station, located in the Town of Goshen, Orange County, New York.

IWS Transfer Systems of NY (IWS) will be constructing a 9,132 square foot addition to the Transfer Building, along with a 390 square foot mechanical and electrical room for housing the fire water pump and electrical equipment for the Transfer Station. The proposed addition to the TS building will include a new loadout tunnel that will be equipped with a truck scale and tarping rack. The existing tarping rack located adjacent to the Maintenance Shop/Offices building will be removed.

The curb cut at the Facility entrance on Hartley Road will be extended to 75 feet for easier access of trucks travelling in and out of the Facility.

Leachate from the proposed addition will be directed into a new dual-walled underground leachate storage tank. The water for the fire suppression system in the proposed TS Building will be provided via a new 65,000-gallon Aboveground Water Storage and Supply Tank.

IWS has previously submitted a permit modification requesting that the 70 TPD of source-separated recyclables be converted to municipal solid waste (MSW) and construction and demolition (C&D) Debris which will allow the Facility to accept up to 670 TPD of MSW and C&D Debris under Part 362-3, or a maximum of 570 TPD of MSW and a maximum of 100 TPD of C&D when the Facility is operating under both Part 362-3 as a Transfer Facility and Part 361-5 as Construction and Demolition Debris Handling and Recovery Facilities. Recyclable materials are now directed to the IWS MRF located in Airmont, New York. As such, IWS is requesting the currently permitted 70 TPD to be converted into MSW and C&D Debris.

The upgraded Facility has received local approval from the Town of Goshen Planning Board, dependent on approval from NYSDEC.

The Facility Plans to continue operations during construction of the addition. Once the addition has been completed, the operations will be moved into the TS Building addition area while modifications will be completed to the existing TS Building. These modifications will include filling in the existing loadout tunnels, installation of overhead doors at the three (3) existing loading bays and installation of two (2) new overhead doors on the western side of the existing TS Building.

Pursuant to Section 402 of the Clean Water Act (CWA), stormwater discharges from certain construction activities are unlawful unless they are authorized by a National Pollutant Discharge Elimination System (NPDES) permit or by a state permit program. The New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) permit program is a NPDES-approved program with permits issued in accordance with the Environmental Conservation Law (ECL). The General Permit for Stormwater Discharges from Construction Activity, General Permit Number GP-0-25-001 (the Permit) is issued pursuant to Article 17, Titles 7, 8 and Article 70 of the ECL.

The Permit authorizes stormwater discharges to surface waters of the State from construction activities involving soil disturbances of one or more acres, provided all of the eligibility provisions of the Permit are met. Part III.C of the Permit states that construction activities identified in Table 1 of Appendix B (of the Permit) are required to prepare a SWPPP that only includes erosion and sediment control practices.

Since the parcel area of the Goshen Transfer Station expansion is 3 acres, it is not expected that more than 5 acres will be disturbed at one given time. **However, if more than 5 acres of the Project area will be disturbed at one given time, the following are required by the Owner and Contractor:**

- Obtain written authorization from the Town of Goshen prior to construction.
- Conduct at least two (2) site inspections in accordance with Part IV.C of the General Permit every seven (7) calendar days, for as long as greater than five (5) acres of soil remain disturbed. The two inspections shall be separated by a minimum of two full calendar days.
- Initiate soil stabilization measures by the end of the next business day in areas where soil disturbance has temporarily or permanently ceased and complete within seven (7) days from the date the current soil disturbance activity ceased.
- Prepare a phasing plan that defines the maximum disturbed area per phase and shows required cuts and fills.
- Install additional site-specific practices needed to protect water quality.

Refer to Appendix A for a copy of the Permit.

2.0 SITE DESCRIPTION

2.1 PROPERTY

The Facility is located at 95 Hartley Road in Goshen, New York. Refer to Figure 1, Site Location Map. The 3-acre Site is located on Section 12, Block 1, Lot 21.21 in the Town of Goshen and is situated in the I, Industrial Zoning District. Operation of a solid waste management Facility requires a special use permit from the Town of Goshen. The site location is shown on Sheet No. 1, "Regional Map" and Sheet No. 2, "Vicinity Map" and on Figure 1, "Site Location Map".

The Facility is bounded to the north, south and west by other tax parcels zoned I. A portion of the Amy's Kitchen manufacturing facility is currently being constructed to the north of the Facility and to the west on the opposite side of the Wallkill River. The closed Al Turi Landfill is located to the south and west of the Facility. Property located across Harley Road to the east is zoned CO, Commercial/Office Mixed-Use. IWS owns the parcel directly across the street which is used for vehicle and container storage. On Time Disposal and HiG Fabrications are also located across Hartley Road to the east of the Facility. On Time Disposal provides roll-off container rentals to customers, HiG fabricates automobile chassis and parts for race cars.

As per FEMA Map Panel 269 of 630 (No. 36071C0269E), last revised on August 3, 2009, the Facility is in Zone X, areas determined to be outside the 0.2% annual chance floodplain. The Facility is not located in or adjacent to a NYSDEC or Federal wetland.

2.2 TOPOGRAPHY

The maximum elevation of the IWS Goshen Transfer Station is approximately 411 feet above mean sea level.

2.3 SOILS

The United States Department of Agriculture (USDA) Soil Conservation Service (SCS) Soil Survey for Orange County was reviewed and provided surficial soil conditions for the Site. The SCS identified the presence of the following four (4) soil types within the Site and surrounding area:

- Allard silt loam (AdA), 0 to 3 percent slopes
- Hoosic gravelly sandy loam (HoC), 8 to 15 percent slopes
- Mardin gravelly silt loam (MdC), 8 to 15 percent slopes
- Riverhead sandy loam (RhC), 8 to 15 percent slopes

Figure 2 shows the soils map for the property. Soil data as provided by the SCS is presented in Table 1.

Table 1 – Soils Data

MAP SYMBOL/ DESCRIPTION	HYDROLOGIC SOIL GROUP	SOIL PROFILE		K VALUE	DEPTH TO WATER TABLE (FEET)	DEPTH TO BEDROCK (IN)
		DEPTH (IN)	USDA TEXTURE			
Allard silt loam (AdA)	B	0-9	Silt loam	0.43	>6.0	>60
		9-35	Silt loam, very fine sandy loam	0.43		
		35-60	Stratified sand to very gravelly loam sand.	0.37		
Hoosic gravelly sandy loam (HoC)	A	0-6	Gravelly sandy loam	0.17	>6.0	>60
		6-22	Gravelly sandy loam, very gravelly sandy loam, gravelly loam	0.17		
		22-60	Very gravelly sand, very gravelly loamy sand	0.17		
Mardin gravelly silt loam (MdC)	D	0-8	Gravelly silt loam	0.24	1.5-2.0	>60
		8-20	Channery silt loam, loam, gravelly loam	0.28		
		20-60	Channery loam, channery silt loam, very channery loam	0.28		
Riverhead sandy loam (RhC)	A	0-9	Sandy loam	0.28	>6.0	>60
		9-26	Sandy loam, fine sandy loam, gravelly sandy loam	0.24		
		26-30	Loamy sand, gravelly loamy sand, fine sandy loam	0.17		
		30-60	Stratified sand and gravel	0.147		

The SCS defines the hydrologic soil groups as follows:

- Type A Soils: Soils having a high infiltration rate and low runoff potential when thoroughly wet. These soils consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a moderate rate of water transmission.
- Type B Soils: Soils having a moderate infiltration rate when thoroughly wet and consists mainly of moderately deep to deep, moderately well to well drained soils with moderately fine to moderately coarse textures. These soils have a moderate rate of water transmission.
- Type C Soils: Soils having a low infiltration rate when thoroughly wet. These soils consist chiefly of soils with a layer that impedes downward movement of water and soils with moderately fine-to-fine texture. These soils have a low rate of water transmission.

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

2.4 WETLANDS

There are no wetlands on the IWS Facility. The nearest wetlands to the Facility Site include a Freshwater Forested/Shrub Wetland mapped by the United States Fish and Wildlife Service's National Wetlands Inventory (NWI) on the Al Turi and Amy's Kitchen properties. Both wetlands are identified as PFO1E (Palustrine, forested, broad-leaved deciduous, seasonally flooded/saturated). The 0.31-acre NWI wetland on the Al Turi property is approximately 500 feet to southwest of the Facility and at a higher elevation. The 0.8-acre NWI wetland on the Amy's Kitchen property is approximately 900 feet north of the Facility. This wetland area was delineated by Amy's Kitchens as being 4.65 acres. There are no NYSDEC mapped wetlands on the properties adjacent to the Facility parcel.

2.5 HISTORIC PRESERVATION

The NYSDEC and NYS Office of Parks, Recreation and Historic Preservation (OPRHP) have developed a process for construction projects to identify and address potential impacts on archeological and historic resources. This process is documented in a Letter of Resolution (LOR) that was developed between the NYSDEC and OPRHP. The response letter from OPRHP is included in Appendix B. Based upon this review, it is the opinion of OPRHP that no properties, including archaeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project.

2.6 SURFACE WATERS & FLOOD PLAINS

There are no surface water bodies or floodplains on the IWS Facility. The nearest surface water body to the Facility is the Wallkill River located approximately 930 feet to the west. The Wallkill River flows northward from Sparta, New Jersey to the Hudson River in Kingston, New York. The Wallkill River is classified as Class C in the vicinity of the Facility. The base flood elevation along the Wallkill River in the vicinity of the Proposed Action is between 372 and 373 feet msl. Elevations of the Facility parcel range from 395 feet along the northern property line with Amy's Kitchen and 407 to 411 feet within the operational areas of the Facility.

2.7 MS4 ACCEPTANCE

The Town of Goshen is an MS4; as such the SWPPP must be reviewed and accepted by the Town. Appendix D includes a copy of the acceptance form for the Town's signature which will be signed prior to commencement of construction. This form will be upload on the NY.gov website when filing the electronic Notice of Intent.

2.8 RAINFALL DATA

In accordance with the *2016 New York State Standards and Specifications for Erosion and Sediment Control*, hydrologic data and rainfall distributions published by the Northeast Regional Climate Center (NRCC) on their website (<https://www.nrcc.cornell.edu/>) are used in the stormwater hydrology calculations herein. The rainfall data for various 24-hour storm events anticipated at the Site is presented in Table 2.

Table 2 – Rainfall Data

Storm Event	24-Hour Rainfall
1-year	2.95 inches
2-year	3.49 inches
10-year	5.26 inches
25-year	6.64 inches
100-year	9.48 inches

3.0 EROSION & SEDIMENT CONTROL

This section of the SWPPP and the associated Drawings identify the temporary erosion and sediment control (ESC) measures that have been incorporated into the design of this Project. These measures will be implemented during construction to protect the waters of the state from sediment loads during runoff events.

The anticipated order of construction activities is outlined along with the ESC measures to be implemented for each construction activity that will result in soil disturbance. The SWPPP and Drawings provide a description of the temporary and permanent ESC measures including limitations on the duration of soil exposure, criteria and specifications for placement and installation of the ESC measures, and a maintenance schedule.

3.1 CONSTRUCTION/DEMOLITION SEQUENCE

The Project's construction will be approximately nine to twelve months in duration. Prior to the start of construction, the owner/operator shall submit the eNotice of Intent (eNOI) via the NY.gov website. Once the eNOI is submitted, a hard copy of the submission will be included in Appendix C.

The following is a typical sequence of activities describing the intended order of construction activities:

1. Hold a pre-construction/demolition meeting on-site to be attended by the qualified inspector and any involved subcontractors to discuss responsibilities as they relate to the implementation of the SWPPP, identify the secure location where the SWPPP will be kept on the Site (must be accessible during normal business hours), and review appropriate measures to avoid and minimize impacts to protected species during demolition and restoration. If contractors and subcontractors have not already done so, the certification statements in Appendix D shall be signed at this time.
2. Delineate limits of work disturbance and resources to protect.
3. Establish equipment staging (laydown area).
4. Install and stabilize temporary ESC measures.
5. Demolish all features slated for removal on Sheet 5, Existing Site Plan, of the Engineering Drawings.
6. Widen the existing curb cut on Hartley Road and relocate/reconstruct sliding gate as necessary.
7. Construct Transfer Station Building Addition, complete, with mechanical room and water supply and storage tank.
8. Construct proposed leachate collection system, including inlets, drains, and underground storage tank.
9. Construct water and electrical services.
10. Construct reinforced concrete apron around perimeter of enlarged Transfer Station.
11. Perform final site grading and restoration.

If the disturbed area exceeds 5 acres at any given time, obtain prior written authorization from the NYSDEC.

3.2 TEMPORARY EROSION & SEDIMENT CONTROL MEASURES

Temporary erosion and sediment control measures are included as part of the Drawings and described herein.

3.2.1 Dust Control

Water trucks may be used as needed during construction to reduce dust generated on the Site. Dust control must be provided by the Contractor to a degree that is acceptable to the Owner, and in compliance with the applicable local and state dust control requirements.

3.2.2 Sediment Control Barrier

Prior to the initiation of and during construction activities, a geotextile filter fabric (or silt fence) or compost filter sock will be established along the perimeter of areas to be disturbed as a result of the construction that lies upgradient of water courses or adjacent properties. These barriers may extend into non-impact areas to ensure adequate protection of adjacent lands.

Clearing and grubbing will be performed only as necessary for the installation of the sediment control barrier. To ensure effectiveness of the sediment control barrier, daily inspections and inspections immediately after significant storm events will be performed by Site personnel. Maintenance of the fence will be performed as needed.

3.2.3 Concrete Wash Area

Concrete trucks will be allowed to wash out or discharge surplus concrete or drum wash water on the site, but only in a specifically designated diked and impervious washout area which has been prepared to prevent contact between the concrete wash and stormwater. Waste generated from concrete wash water shall not be allowed to flow into drainage ways, inlets, receiving waters or highway right of ways, or any location other than the designated Concrete Wash Areas. Proper signage designating the "Concrete Wash Area" shall be implemented. The Concrete Wash Area shall be located at minimum 100 linear feet from drainage ways, inlets and surface waters.

The hardened residue from the Concrete Wash Area shall be disposed of in the same manner as other non-hazardous construction waste materials. Maintenance of the wash area shall include removal of hardened concrete. The Facility shall have sufficient volume to contain all the concrete waste resulting from washout and a minimum freeboard of 12 inches. The Facility shall not be filled beyond 95 percent capacity and shall be cleaned out once 75 percent full unless a new facility is constructed. The Contractor will be responsible for complying with these procedures.

Saw-cut Portland Cement Concrete (PCC) slurry shall not be allowed to enter storm drains or watercourses. Saw-cut residue should not be left on the surface of pavement or be allowed to flow over and off pavement.

The concrete washout area shall be inspected daily and repaired or replaced as necessary. The Site shall be inspected frequently to ensure that no concrete discharges are taking place in non-designated areas.

3.2.4 Dewatering

Groundwater is not expected to be encountered during construction of the proposed leachate system. In the event that groundwater is encountered in the excavated trenches, the Contractor shall install a dewatering sump pit with filter fabric wrapped around the standpipe to prevent sediment from being discharged into the existing storm sewer system. The pumped water shall be directed to the nearest catch basin.

3.2.5 Temporary Soil Stockpile

Materials, such as topsoil or removed soil for special handling, shall be temporarily stockpiled (if necessary) on the Site during the grading and construction process. Stockpiles shall be located in an area away from storm drainage, water bodies and/or courses, and shall be properly protected from erosion by a surrounding sediment control barrier.

3.2.6 Temporary Seeding

In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased.

3.2.7 Temporary Soil Stabilization

In areas where soil disturbance activity has temporarily ceased (i.e. an existing disturbed area will not be disturbed again within 7 calendar days of the previous soil disturbance), the application of temporary soil stabilization measures shall be initiated by the end of the next business day and completed within 7 days from the date the current soil disturbance activity ceased.

Temporary soil stabilization can be achieved by covering exposed soil with mulch, seed and mulch, and/or erosion control mats (e.g. jute twisted yarn, excelsior wood fiber mats) to prevent the exposed soil from eroding until permanent soil stabilization has been implemented and achieved.

3.3 PERMANENT EROSION & SEDIMENT CONTROL MEASURES

Permanent erosion and sediment control measures are included as part of the Drawings and described herein.

3.3.1 Permanent Soil Stabilization

Disturbed areas that will be vegetated must be seeded in accordance with the Drawings and New York State standard requirements. The type of seed, mulch, and maintenance measures shall be in accordance with New York State standard requirements.

All areas at final grade must be seeded and mulched within 7 days after completion of the major construction activity if the area of disturbance is less than 5 acres. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within 7 days from the date the current soil disturbance activity ceased. All seeded areas should be protected with mulch.

Final Site stabilization is achieved when all soil-disturbing activities at the Site have been completed and a uniform, perennial vegetative cover with a density of 80 percent has been established or equivalent stabilization measures (such as the use of mulches or geotextiles) have been employed on all unpaved areas and areas not covered by permanent structures.

3.3.2 Soil Restoration

The structure of healthy soil is permeable, with spaces between solid particles where water, air, and soil organisms can move. Soil compaction occurs when weight on the soil surface collapses these spaces, creating a hard, solid mass. Water, air, and roots may be completely unable to penetrate compacted soil, reducing or destroying its capacity to sustain life. Soil restoration promotes greater stormwater infiltration in areas with pervious cover and, therefore, helps to reduce runoff volume.

Soil restoration is achieved by aeration through mechanical loosening, and addition of organic matter and soil amendments. In areas where significant soil disturbance has occurred, the disturbed sub-soils shall be returned to rough grade and soils restoration steps applied, in accordance with Table 4.6, Soil Restoration Requirements of the NYS Standards and Specifications for Erosion and Sediment Control dated July 2016 and amended in November 2016 and Section 5.1.6, Soil Restoration of the NYS Stormwater Management Design Manual, dated July 31, 2024.

Table 3 provides the soil restoration requirements for various types of soil disturbance. Grading and soil restoration requirements shall be in accordance with the Drawings.

Table 3 – Soil Restoration Requirements

Type of Soil Disturbance	Soil Restoration Requirement		Comments/Examples
No Soil Disturbance	Restoration not permitted.		Preservation of natural features.
Minimal Soil Disturbance	Restoration not required.		Clearing and grubbing.
Areas where topsoil is stripped only – no change in grade	HSG A & B	HSG C & D	Protect areas from any ongoing construction activities.
	Apply 6 inches of topsoil	Aerate* and apply 6 inches of topsoil	
Areas of cut or fill	HSG A & B	HSG C & D	
	Aerate and apply 6 inches of topsoil	Apply full soil restoration**	
Heavy traffic areas on site (especially within 5-25 feet of buildings but not within a 5-foot perimeter around foundation walls)	Apply full soil restoration (de-compaction and compost enhancement)		
Areas where runoff reduction and/or infiltration practices are applied	Restoration not required but may be applied to enhance the reduction specified for appropriate practices.		Keep construction equipment away from crossing these areas.

* Aeration includes the use of machines such as tractor-drawn implements with coulters making a narrow slit in the soil, a roller with many spikes making indentations in the soil, or prongs which function like a mini-subsoiler.

** Per “Deep Ripping and De-compaction, DEC 2008”

4.0 SPILL PREVENTION & SOLID WASTE MANAGEMENT

The following describes other control measures to be employed during all phases of construction.

4.1 SPILL PREVENTION & RESPONSE

A Spill Prevention and Response Plan shall be developed for the Site by the Contractor. The plan shall detail the steps needed to be followed in the event of an accidental spill and shall identify contact names and phone numbers of people and agencies that must be notified.

The plan shall include Safety Data Sheets (SDS) for materials to be stored on-Site. Workers on site will be required to be trained on safe handling and spill prevention procedures for all materials used during construction.

The use of detergents for large scale washing is prohibited (e.g., vehicles, buildings, pavement surfaces, etc.)

4.2 SOLID & LIQUID WASTE DISPOSAL

No solid or liquid waste, including building materials, is allowed to be discharged from the Site with stormwater. All solid waste, including disposable materials incidental to the major construction activities, must be collected and placed in containers. The containers shall be emptied periodically by a licensed solid waste disposal service and hauled away from the Site and disposed of at a permitted facility.

Substances that have the potential for polluting surface and/or groundwater must be controlled by whatever means necessary to ensure that they do not discharge from the Site. As an example, special care must be exercised during equipment fueling and servicing operations. A designated refueling area will be provided that will allow for appropriate containment; however, if a spill occurs, it must be contained and disposed so that it will not flow from the Site or enter groundwater, even if this requires removal, treatment, and disposal of soil. In this regard, potentially polluting substances should be handled in a manner consistent with the impact they represent.

4.2.1 Sanitary Facilities

Temporary sanitary facilities will be provided throughout the construction phase. These facilities will be utilized by construction personnel and will be serviced by an outside contractor. These facilities shall comply with state and local sanitary or septic system regulations.

4.2.2 Water Source

Non-stormwater components of Site discharge must be clean water. Water used for construction, which is discharged from the Site, must originate from a public water supply or private well approved by the Orange County Health Department. Water used for construction that does not originate from an approved public supply must not discharge from the Site. It can be retained until it infiltrates and evaporates.

5.0 INSPECTION & MAINTENANCE REQUIREMENTS

5.1 PRE-CONSTRUCTION INSPECTION

Prior to the commencement of construction, the Owner or Operator must identify the Contractor(s) and Subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting and maintaining the erosion and sediment control practices included in the SWPPP; and the Contractor(s) and Subcontractor(s) that will be responsible for constructing the post-construction stormwater management practices included in the SWPPP. The Owner or Operator shall have each of the Contractors and Subcontractors identify at least one (1) person from their company that will be responsible for implementation of the SWPPP. This person shall be known as the Trained Contractor, who shall be on site on a daily basis when soil disturbance activities are being performed.

The responsible Contractor or Subcontractor shall sign the form included in Appendix D.

A Qualified Inspector shall conduct an assessment of the Site and certify that the appropriate erosion and sediment control structures have been adequately installed and implemented. Refer to the inspection forms in Appendix E.

5.2 CONSTRUCTION PHASE INSPECTIONS & MAINTENANCE

A Qualified Inspector, as defined in Appendix A of the General Permit GP-0-25-001, shall conduct weekly Site inspections between the time the SWPPP is implemented and final site stabilization. To ensure the stability and effectiveness of all protective measures and practices during construction, all erosion and sediment control measures employed will be inspected by the Qualified Inspector at least every 7 calendar days. If disturbance exceeds 5 acres, the Qualified Inspector shall conduct at least two inspections every 7 calendar days. The two inspections shall be separated by a minimum of two full calendar days.

The purpose of Site inspections is to assess performance of pollutant controls. Based on these inspections, the Qualified Inspector shall decide whether it is necessary to modify the SWPPP, add or relocate sediment barriers, or whatever else may be needed in order to prevent pollutants from leaving the Site via stormwater runoff. The Construction Contractor has the duty to cause pollutant control measures to be repaired, modified, maintained, supplemented, or whatever else is necessary in order to achieve effective pollutant control.

Examples of particular items to evaluate during Site inspections are listed below. This list is not intended to be comprehensive. During each inspection the inspector must evaluate overall pollutant control system performance as well as particular details of individual system components. Additional factors should be considered as appropriate to the circumstances.

- Locations where vehicles enter and exit the Site must be inspected for evidence of off-site sediment tracking. The entrance to the Facility is paved and will be maintained or supplemented as necessary to prevent sediment from leaving the Site on vehicles.
- Sediment barriers must be inspected and, if necessary, they must be enlarged or cleaned in order to provide additional capacity. All material from behind sediment barriers will be stockpiled on the up-slope side. Additional sediment barriers must be constructed as needed.
- Inspections will evaluate disturbed areas and areas used for storing materials that are exposed to rainfall for evidence of, or the potential for, pollutants entering the drainage system. If necessary, the materials must be covered, or original covers must be repaired or supplemented. Also, protective berms must be constructed, if needed, in order to contain runoff from material storage areas.

- Grassed areas will be inspected to confirm that a healthy stand of grass is maintained. The Site will be considered to have achieved final stabilization once all areas are covered with gravel or have a stand of grass with at least 80 percent density, which is considered stabilized or mulched. Areas must be watered, fertilized, and reseeded as needed to achieve this goal.
- All discharge points must be inspected to determine whether erosion control measures are effective in preventing significant impacts to receiving waters.

Within 1 business day of the completion of an inspection, the Qualified Inspector shall notify the Owner or Operator and appropriate contractor (or subcontractor) of any corrective actions that need to be taken. The Contractor (or subcontractor) shall begin implementing corrective actions within 1 business day of this notification and shall complete the corrective actions in a reasonable time frame.

In addition to the inspections performed by the Qualified Inspector, the Contractor shall perform routine inspections that include a visual check of all erosion and sediment control measures. All inspections and maintenance shall be performed in accordance with the inspection and maintenance schedule provided on the Drawings. Sediment removed from erosion and sediment control measures will be exported from the Site, stockpiled for later use, or used immediately for general non-structural fill.

It is the responsibility of the Contractor to assure the adequacy of Site pollutant discharge controls. Actual physical Site conditions or contractor practices could make it necessary to install more erosion and sediment controls than shown on the attached Drawings. (For example, localized concentrations of runoff could make it necessary to install additional sediment barriers.) Assessing the need for additional controls and implementing them or adjusting existing controls will need to be addressed throughout all aspects of this Project, and until the Site achieves final stabilization.

5.3 INSPECTION & MAINTENANCE REPORTS

Inspection reports must be completed for every inspection conducted and include additional remarks if needed to fully describe a situation. An important aspect of the inspection report is the description of additional measures that need to be taken to enhance plan effectiveness. The inspection report must identify whether the Site was in compliance with the SWPPP at the time of inspection and specifically identify all incidents of non-compliance.

Sample inspection forms are included in Appendix E. At a minimum, the inspection report shall include and/or address the following:

- Date and time of inspection;
- Name and title of person(s) performing inspection;
- A description of the weather and soil conditions (e.g., dry, wet, saturated) at the time of the inspection;
- A description of the condition of the runoff at all points of discharge from the Site. This shall include identification of any discharges of sediment from the Site. Include discharges from conveyance systems (e.g., pipes, culverts, ditches, etc.) and overland flow;
- A description of the condition of all natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the Site which receive runoff from disturbed areas. This shall include identification of any discharges of sediment to the surface waterbody;
- Identification of all erosion and sediment control practices that need repair or maintenance;
- Identification of all erosion and sediment control practices that were not installed properly or are not functioning as designed and need to be reinstalled or replaced;

- Description and sketch of areas with active soil disturbance activity, areas that have been disturbed but are inactive at the time of the inspection, and areas that have been stabilized (temporary and/or final) since the last inspection;
- Current phase of construction of all post-construction stormwater management practices and identification of all construction that is not in conformance with the SWPPP and technical standards; and
- Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices, and to correct deficiencies identified with the construction of the post-construction stormwater management practice(s);
- Identification and status of all corrective actions that were required by previous inspection; and
- Include color photographs with date stamps, taken with a digital camera that clearly show the condition of all practices that have been identified as needing corrective actions. Color copies of photographs shall be attached to the inspection report within 7 calendar days of inspection. Color photographs with date stamps, taken with a digital camera must clearly show the condition of practice(s) after the corrective action has been completed. Color copies of the photographs, that document completion of the corrective action work within 7 calendar days of inspection, shall be attached to inspection report.

The inspection reports shall be signed by the Qualified Inspector and shall be maintained on Site with the SWPPP, kept in Appendix G.

5.4 TEMPORARY SUSPENSION OF CONSTRUCTION ACTIVITIES

For constructions areas where soil disturbance activities have been temporarily suspended (e.g., winter shutdown) and temporary stabilization measures have been applied to all disturbed areas, the frequency of Qualified Inspector inspections can be reduced to once every 30 calendar days. Prior to reducing the frequency of inspections, the Owner/Operator shall notify the NYSDEC Division of Water in writing.

5.5 PARTIAL PROJECT COMPLETION

For construction areas where soil disturbance activities have been shut down with partial project completion, the Qualified Inspector can stop conducting inspections if all areas disturbed as of the project shutdown date have achieved final stabilization and all post-construction stormwater management practices required for the completed portion of the Project have been constructed in conformance with the SWPPP and are operational. The owner or operator shall notify the NYSDEC Region 3 Water (SPDES) Program contact in writing prior to the shutdown.

If soil disturbance activities are not resumed within 2 years from the date of shutdown, the Owner or Operator shall have the qualified inspector perform a final inspection and certify that all disturbed areas have achieved final stabilization, and all temporary, structural erosion and sediment control measures have been removed; and that all post-construction stormwater management practices have been constructed in conformance with the SWPPP by signing the “Final Stabilization” and “Post-Construction Stormwater Management Practice” certification statements on the Notice of Termination (NOT) (Refer to Appendix F).

5.6 POST-CONSTRUCTION OR PLANNED SHUTDOWN INSPECTION

The Owner or Operator shall have the Qualified Inspector perform a final Site inspection prior to submitting the NOT when all disturbed areas are stabilized, and all stormwater management systems are in place and operable. The Qualified Inspector shall certify that all disturbed areas have achieved final stabilization; and all temporary, structural erosion and sediment control measures have been removed; and that all post-construction stormwater

management practices have been constructed in conformance with the SWPPP by signing the “Final Stabilization” and “Post-Construction Stormwater Management Practice” certification statements on the NOT.

Prior to submitting the Notice of Termination, the Owner or Operator must have a deed restriction in place to ensure that the Operation and Maintenance Plan is implemented for the post-construction stormwater management practices.

5.7 RETENTION OF RECORDS

The owner or operator shall retain a copy of the NOI, NOI Acknowledgment Letter, SWPPP, and any inspection reports that were prepared in conjunction with this permit for a period of at least 5 years from the date that the Site achieves final stabilization. This period may be extended by the NYSDEC, in its sole discretion, at any time upon written notification.

With the exception of the NOI, and NOT, all written correspondence requested by the NYSDEC, including individual permit applications, shall be sent to the following NYSDEC address:

NYSDEC Region 3 Office
21 South Putt Corners Road
New Paltz, New York 12561-1696

6.0 CONCLUSION

This Preliminary SWPPP has been prepared in conformance with the NYSDEC SPDES General Permit for Construction Activity. Prior to construction, the Notice of Intent will be completed electronically via the NY.gov website. Following submission, a Letter of Authorization (LOA) will be sent by the NYSDEC which will authorize commencement of construction activity on the authorization date listed on the LOA. A copy of the eNOI submission and LOA will be included in Appendix C.

Following construction of the project, the Site soils shall be restored in accordance with Section 5.1.6 of the NYS SMDM, and re-vegetation shall be implemented. As demonstrated within this Preliminary SWPPP, the proposed Project will not adversely impact adjacent or downstream properties.

7.0 LIMITATIONS

The work product included in the attached was undertaken in full conformity with generally accepted professional consulting principles and practices and to the fullest extent as allowed by law we expressly disclaim all warranties, express or implied, including warranties of merchantability or fitness for a particular purpose. The work product was completed in full conformity with the contract with our client and this document is solely for the use and reliance of our client (unless previously agreed upon that a third party could rely on the work product) and any reliance on this work product by an unapproved outside party is at such party's risk.

The work product herein (including opinions, conclusions, suggestions, etc.) was prepared based on the situations and circumstances as found at the time, location, scope and goal of our performance and thus should be relied upon and used by our client recognizing these considerations and limitations. Cornerstone Engineering and Geology, PLLC shall not be liable for the consequences of any change in environmental standards, practices, or regulations following the completion of our work and there is no warrant to the veracity of information provided by third parties, or the partial utilization of this work product.

8.0 REFERENCES

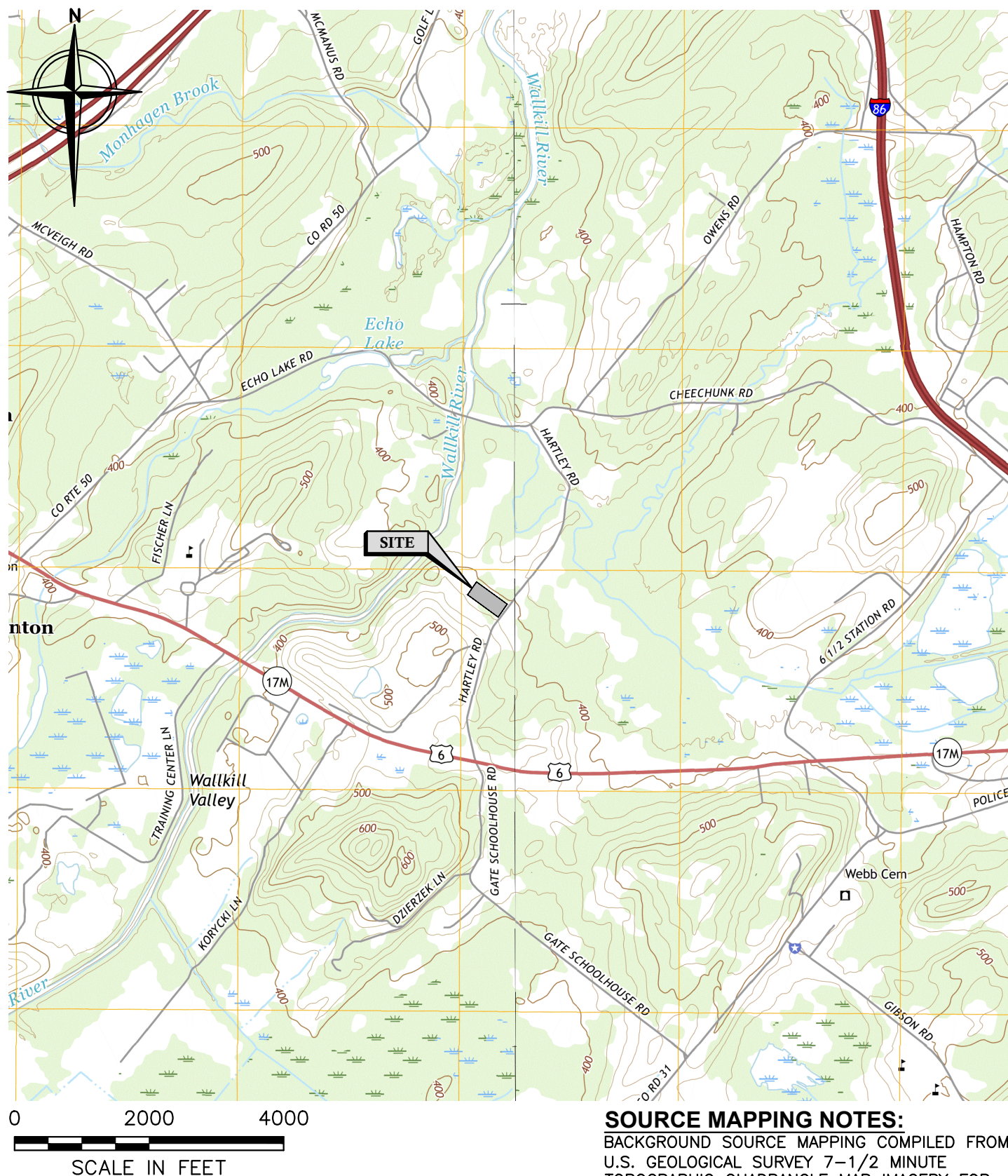
NYSDEC SPDES General Permit for Stormwater Discharges from Construction Activity, Permit No. GP-0-25-001 (effective January 29, 2025, expires January 28, 2030).

New York State Department of Environmental Conservation, Stormwater Toolbox, from World Wide Web:
<http://www.dec.ny.gov/>.

New York State Standards and Specifications for Erosion and Sediment Control, NYSDEC (November 2016).

NYSDEC, Stormwater Management Design Manual, July 31, 2024.

FIGURES



This drawing represents intellectual property of Cornerstone. Any modification to the original by other than Cornerstone personnel violates its original purpose and as such is rendered void. Cornerstone will not be held liable for any changes made to this document without express written consent of the originator.

SOURCE MAPPING NOTES:

BACKGROUND SOURCE MAPPING COMPILED FROM U.S. GEOLOGICAL SURVEY 7-1/2 MINUTE TOPOGRAPHIC QUADRANGLE MAP IMAGERY FOR GOSHEN (2016), AND MIDDLETOWN (2016).

Unauthorized alteration or addition to this plan bearing a licensed professional's seal is a violation of Section 7209, Sub-Division 2, of the New York Education Law. Only copies from the original of this plan marked with an original professional's seal shall be considered to be valid true copies.



PREPARED BY:
CORNERSTONE ENGINEERING AND GEOLOGY, PLLC

ALL PROFESSIONAL ENGINEERING WORK IS PERFORMED BY DULY LICENSED PROFESSIONAL ENGINEERS UNDER THE APPROPRIATE STATE REGISTERED PROFESSIONAL ENTITY.

IWS TRANSFER SYSTEMS OF NY, INC.
GOSHEN TRANSFER STATION
95 HARTLEY ROAD, GOSHEN, NEW YORK 10924

SITE LOCATION MAP

FIGURE NO.

1

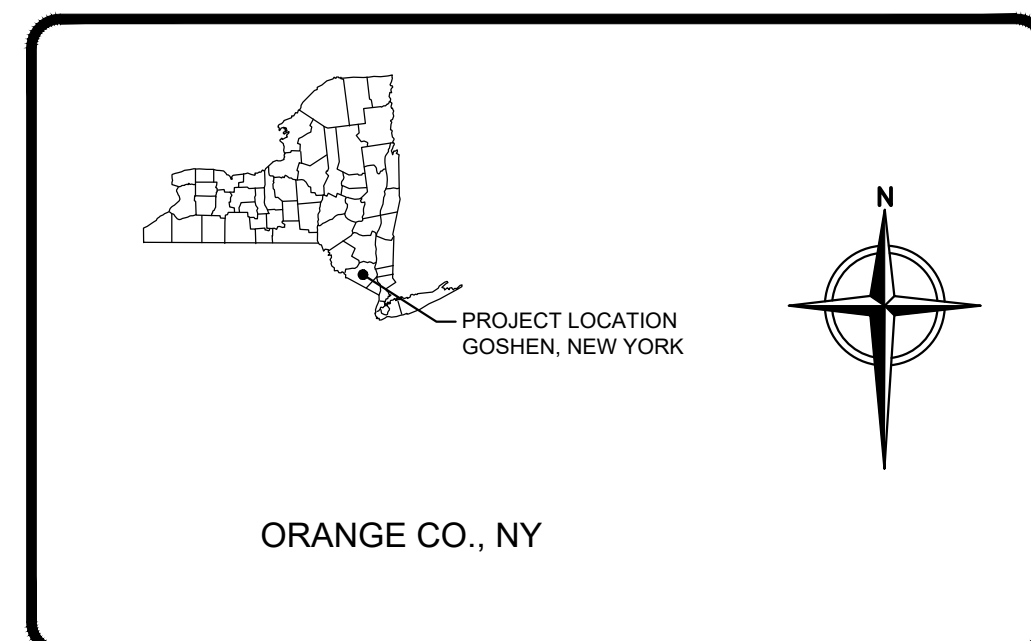
PROJECT NO.
4233429

DRAWINGS

A topographic map of the area around Koonsee, showing the proposed road alignment and the 'SITE' location marked with a red arrow. The map includes contour lines, roads, and various landmarks. The 'SITE' is located near the intersection of the proposed road and the existing road. The map is divided into four quadrants by a vertical and a horizontal line. The source is cited as Google Map.

JUNE 2025

INDEX OF DRAWINGS	
0	COVER SHEET
1	EXISTING SITE PLAN
2	PROPOSED SITE PLAN
3	PROPOSED BUILDING ELEVATIONS
4	PROPOSED BUILDING ELEVATIONS
5	SOIL EROSION AND SEDIMENT CONTROL PLAN
6	PROPOSED EROSION & SEDIMENT CONTROL DETAILS
7	PROPOSED MISCELLANEOUS DETAILS



LOCATION MAPS

PREPARED BY:



PREPARED BY:
CORNERSTONE ENGINEERING AND GEOLOGY, PLLC

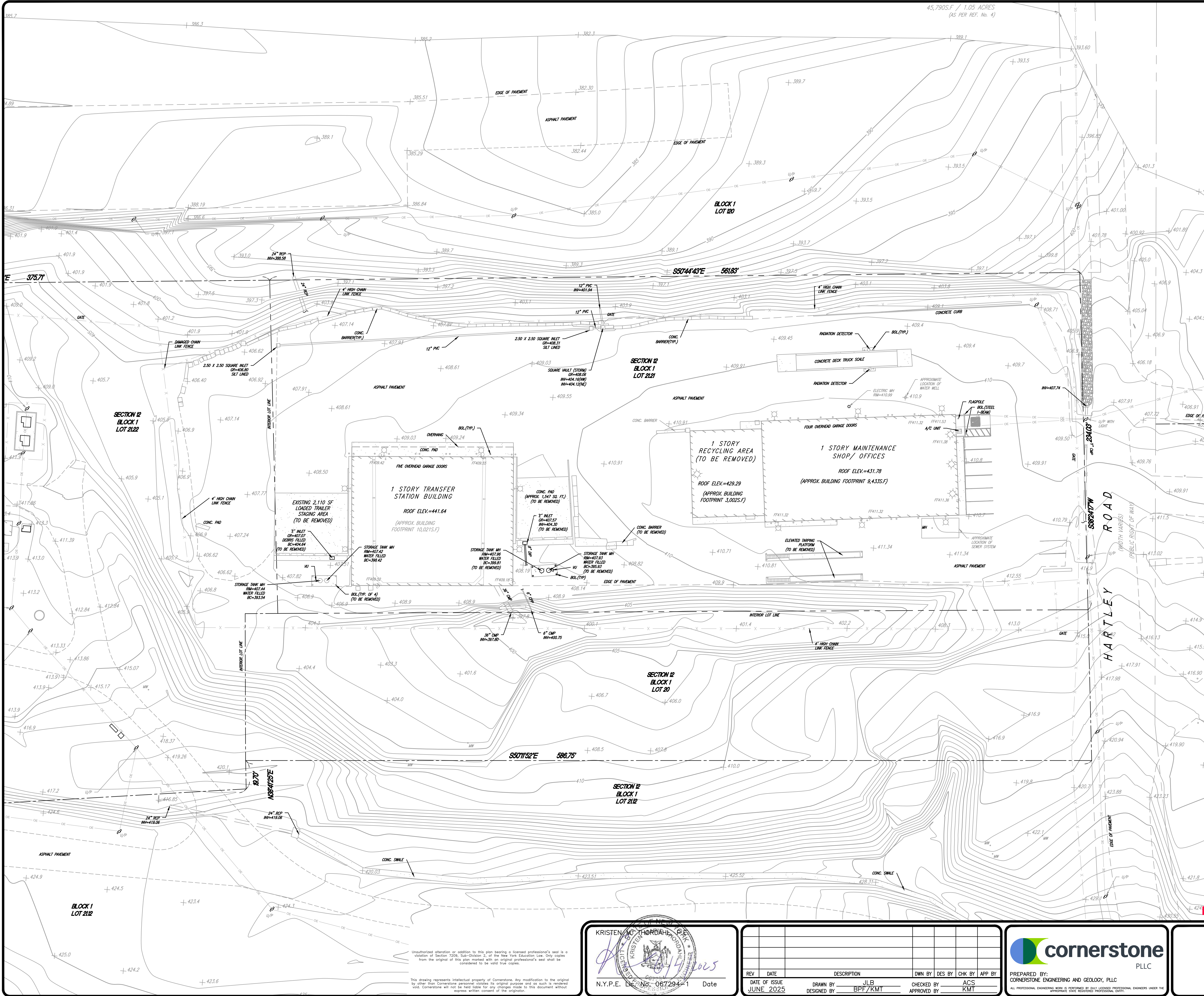
**100 CRYSTAL RUN ROAD
SUITE 101
MIDDLETOWN, NEW YORK 10941
Tel: (877) 294-9070
Fax (845) 692-5894**

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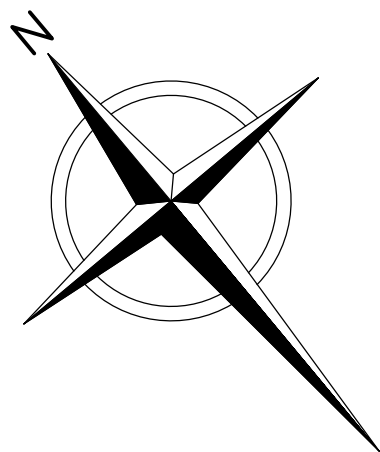
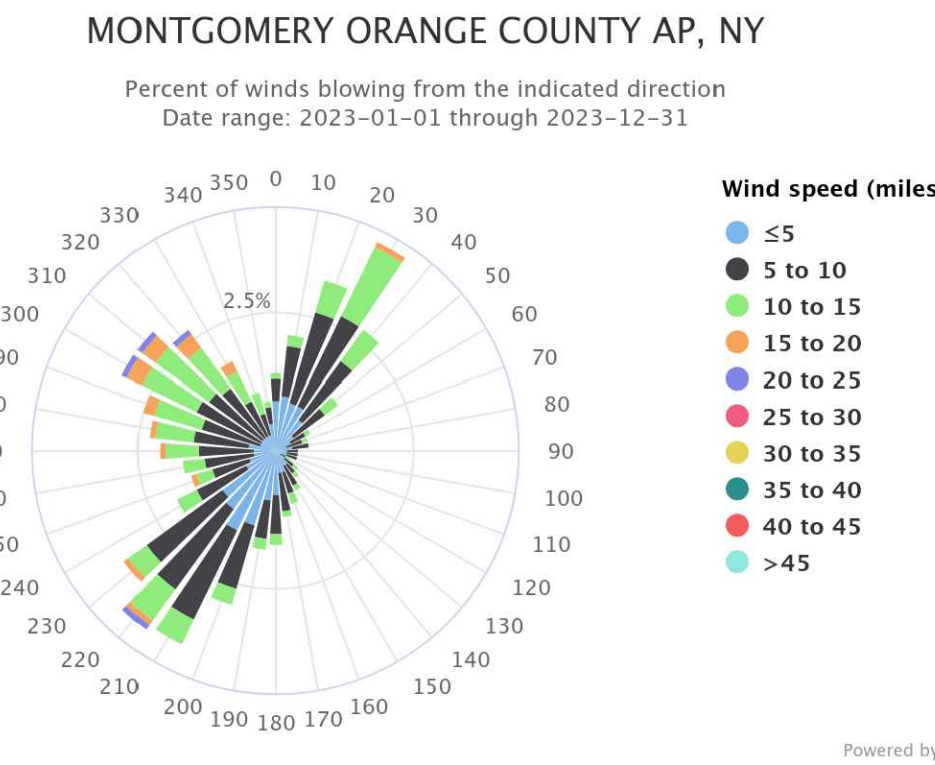
PROJECT NO. 4223429

PERMIT USE ONLY - NOT FOR CONSTRUCTION



- LEGEND**
- PROPERTY LINE
 - ADJACENT PROPERTY LINE
 - EASEMENT LINE
 - RIGHT OF WAY LINE
 - EXISTING MINOR CONTOURS
 - EXISTING MAJOR CONTOURS (AS LABELED)
 - EXISTING GROUND ELEVATION
 - EXISTING EDGE OF PAVEMENT
 - EXISTING EDGE OF GRAVEL
 - EXISTING FENCE LINE
 - EXISTING CONCRETE
 - EXISTING BUILDING
 - EXISTING TREE LINE
 - EXISTING GUIDE RAIL
 - EXISTING CURB LINE
 - EXISTING OVERHEAD WIRE
 - EXISTING UTILITY POLE
 - EXISTING CULVERT

- NOTES:**
- SITE BOUNDARY & TOPOGRAPHY SURVEY, LOT 17.32, 20, 21.21 & 21.22 OF BLOCK 1, PORTIONS OF LOTS 18, 21.12, 112, & 120 OF BLOCK 1, TOWN OF GOSHEN, ORANGE COUNTY, NEW YORK. SHEET 1 OF 1, DATED 3/20/2024, BY DRESDNER ROBIN OF JERSEY CITY, NEW JERSEY.
 - HORIZONTAL DATUM IS REFERENCED TO NEW YORK STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM (NAD 83), US SURVEY FEET.
 - VERTICAL DATUM BASED UPON NYGEIOD 12 GRS80, US SURVEY FEET. CONTOUR INTERVAL IS ONE FOOT.



0 30 60
SCALE IN FEET

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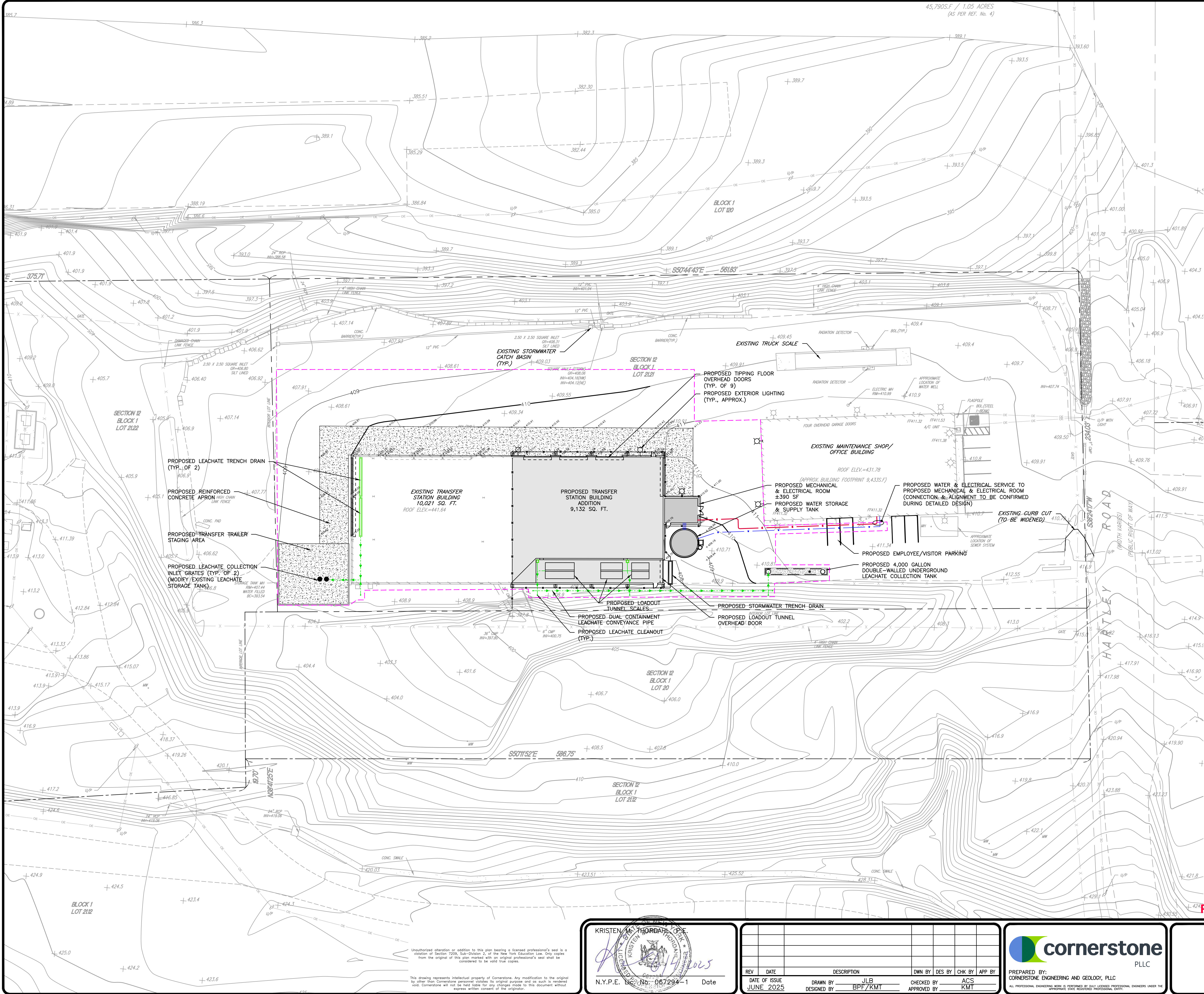
KRISTEN M. THORAH, P.E.
N.Y.P.E. Lic. No. 067294-1 Date

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	JUNE 2025	DATE OF ISSUE	JLB	ACS	ACS	KMT
2		DRAWN BY	BPF/KMT	CHECKED BY		
3		APPROVED BY				

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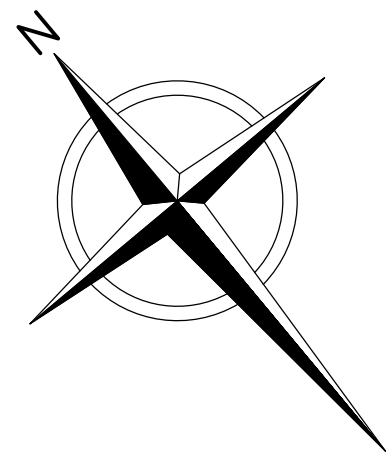
I.W.S. TRANSFER SYSTEMS OF N.Y., INC.
GOSHEN TRANSFER STATION
95 HARTLEY ROAD, GOSHEN, NEW YORK
**PROPOSED FACILITY MODIFICATIONS
EXISTING SITE PLAN**

SHEET NO.
1
PROJECT NO.
4223429



- LEGEND**
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 - PROPOSED MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - PROPOSED STRUCTURE
 - PROPOSED DUAL CONTAINMENT LEACHATE CONVEYANCE PIPE
 - PROPOSED LEACHATE TRENCH DRAIN
 - PROPOSED REINFORCED CONCRETE PAD
 - PROPOSED STORMWATER MANAGEMENT PIPING
 - PROPOSED STORMWATER TRENCH DRAIN
 - LIMIT OF DISTURBANCE (APPROXIMATE)

- NOTES:**
- SEE PLAN SHEET 1 OF THIS PLAN SET FOR LEGEND AND BASE MAP NOTES.
 - ANY IMPORTED TOPSOIL SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.
 - OFF-SITE DISPOSAL OF EXCESS CUT SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.



0 30 60
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N.Y.P.E. No. 067294-1 Date

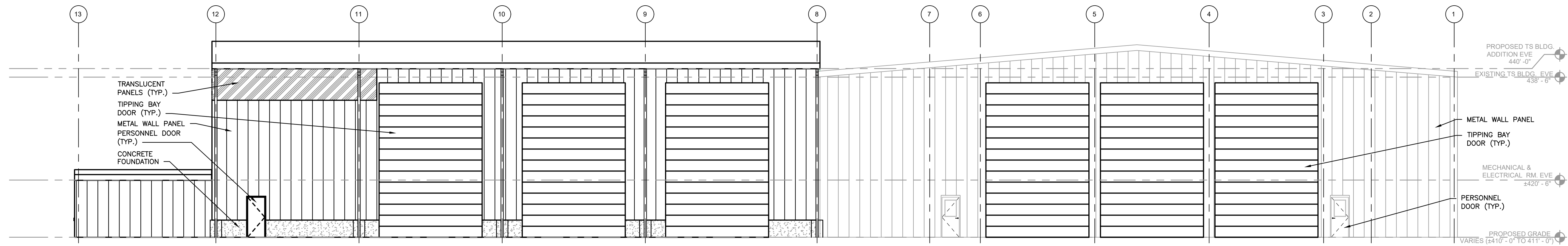
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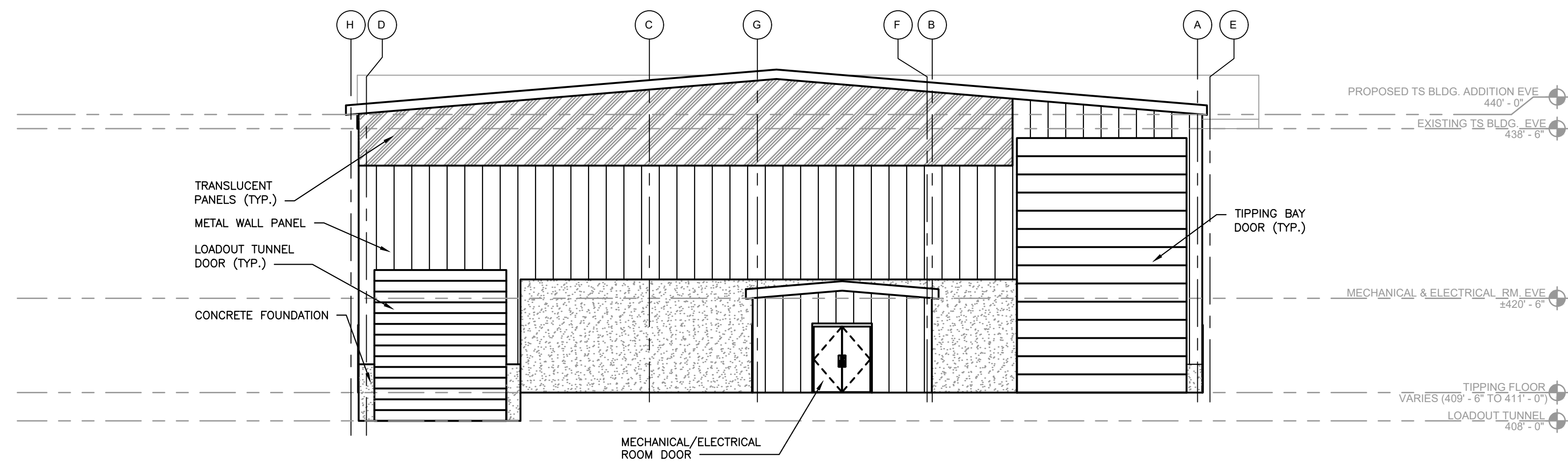
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95 HARTLEY ROAD, GOSHEN, NEW YORK

**PROPOSED FACILITY MODIFICATIONS
PROPOSED SITE PLAN**

SHEET NO.
2
PROJECT NO.
4223429



NORTH
ELEVATION 1
SCALE: 1"=10'-0" 3



EAST
ELEVATION 2
SCALE: 1"=10'-0" 3

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BODHI A. RICHMOND-FLEISCHMANN, P.E.

N.Y.P.E. No. 099699 Date

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2		DESIGNED BY BPF/KMT				

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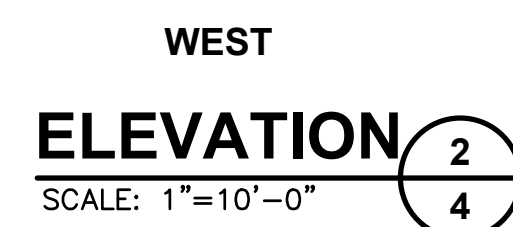
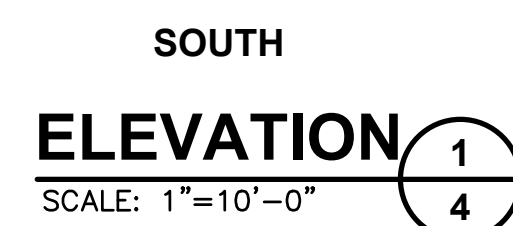
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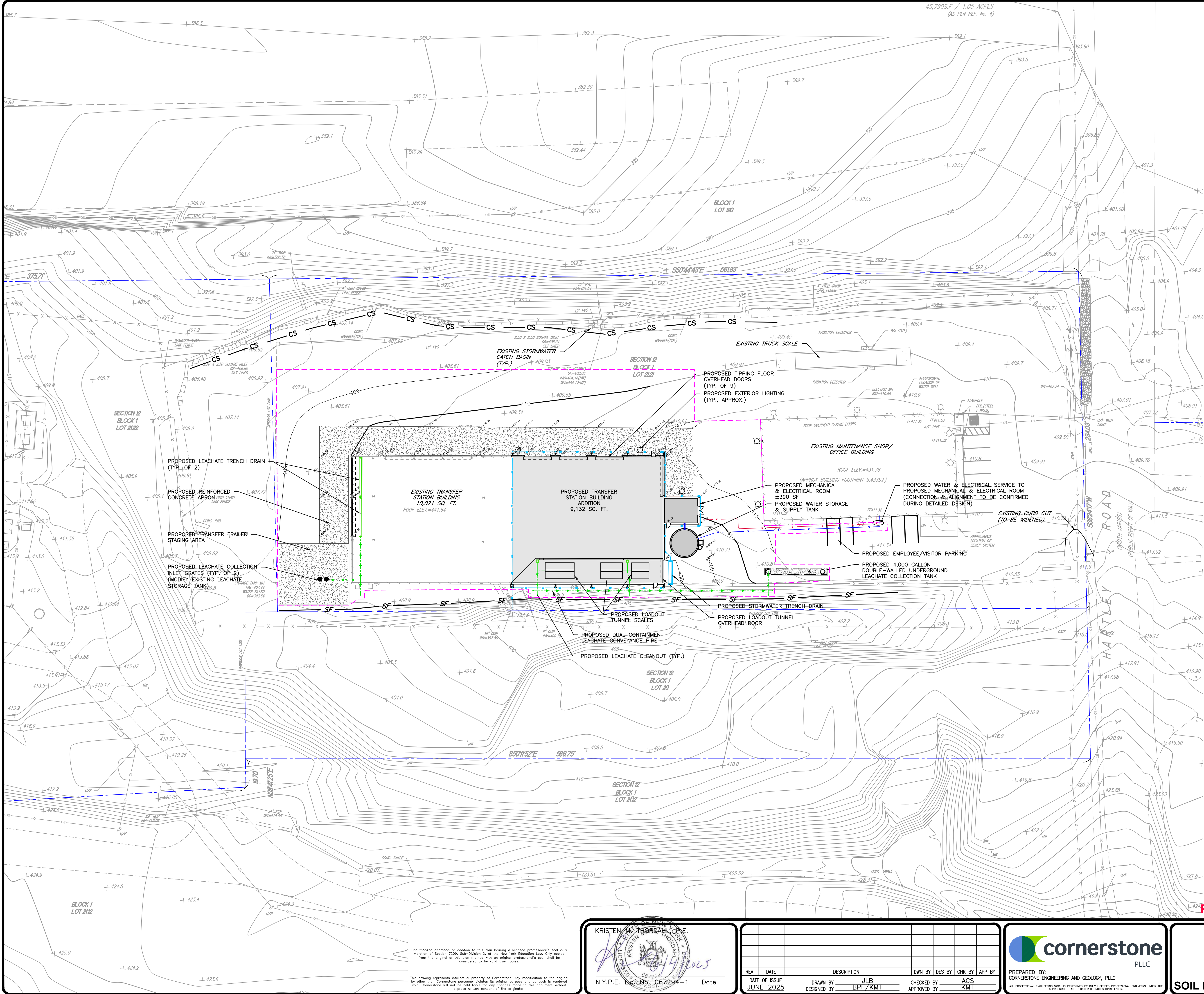
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GOSHEN TRANSFER STATION
95 HARTLEY ROAD, GOSHEN, NEW YORK

PROPOSED FACILITY MODIFICATIONS
PROPOSED BUILDING ELEVATIONS

SHEET NO.
3

PROJECT NO.
4223429



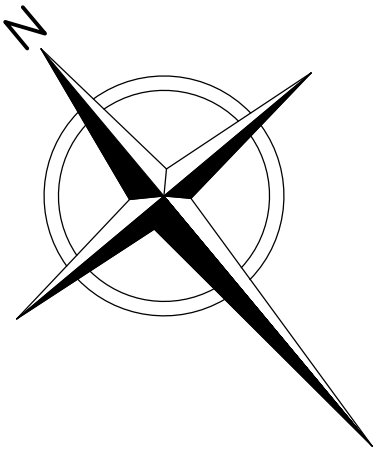


LEGEND

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- PROPOSED STORMWATER TRENCH DRAIN
- LIMIT OF DISTURBANCE (APPROXIMATE)
- PROPOSED COMPOST SOCK
- PROPOSED SILT FENCE

NOTES:

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- OFF-SITE DISPOSAL OF EXCESS CUT SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.



0 30 60
SCALE IN FEET

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KRISTEN M. THORNTON, P.E.



N.Y.P.E. No. 067294-1 Date

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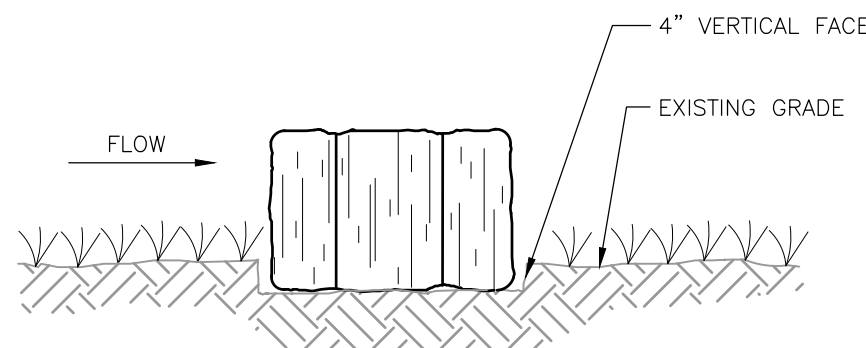
PROPOSED FACILITY MODIFICATIONS
SOIL EROSION AND SEDIMENT CONTROL PLAN

SHEET NO.

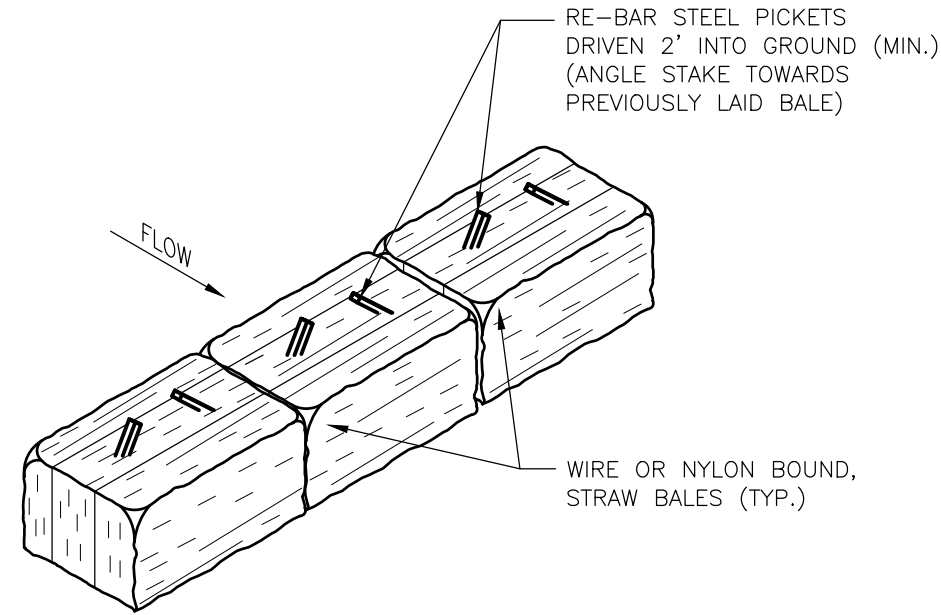
5

PROJECT NO.

4223429



EMBEDDING VIEW



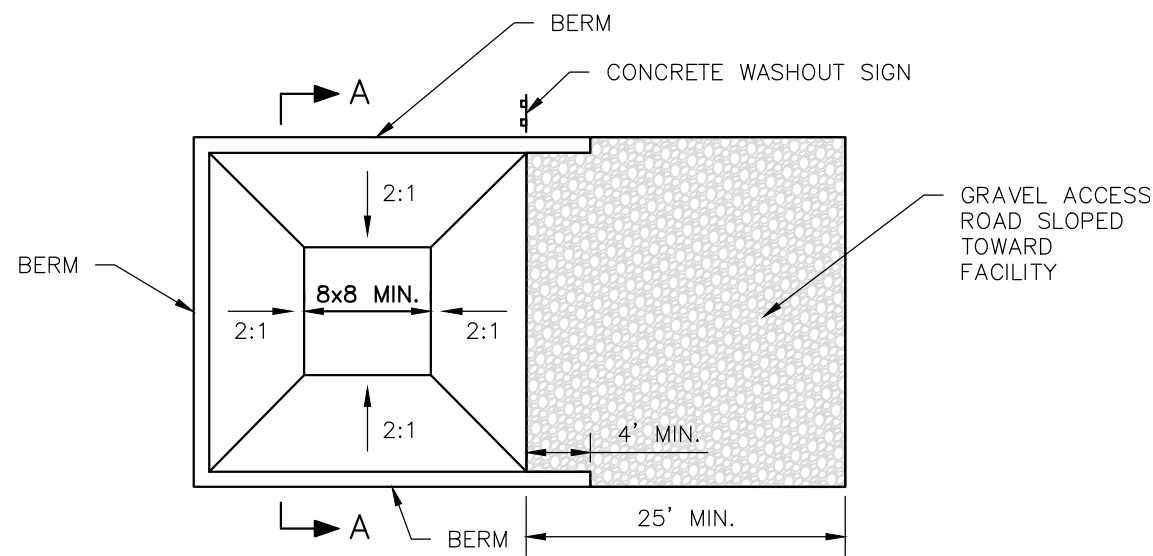
ISOMETRIC VIEW

STRAW BALE

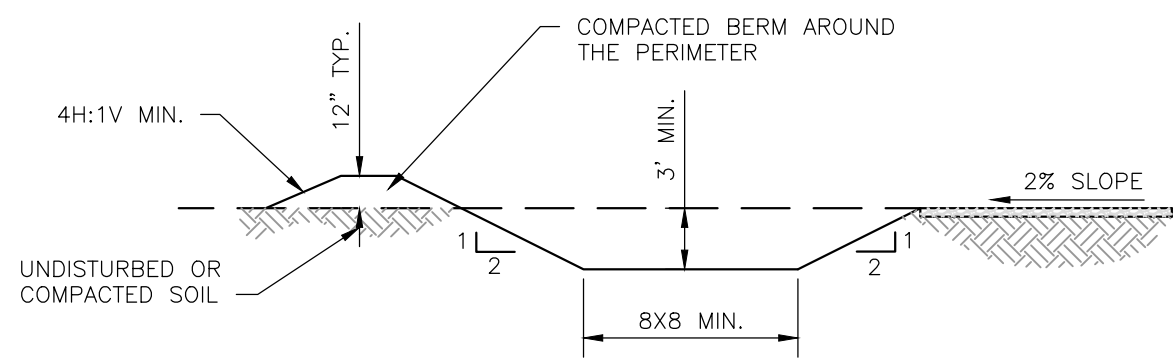
DETAIL

SCALE: N.T.S.

1
6



PLAN



SECTION "A"

NOTES:

1. LOCATE THE FACILITY A MINIMUM OF 100 FEET FROM DRAINAGE SWALES, STORM DRAIN INLETS, WETLANDS, STREAMS AND OTHER SURFACE WATER.
2. PREVENT SURFACE WATER FROM ENTERING THE STRUCTURE EXCEPT FOR THE ACCESS ROAD.
3. PROVIDE A GRAVEL ACCESS ROAD TO FACILITY THAT IS SLOPED DOWN TO FACILITY.
4. SIGNS SHALL BE PLACED TO DIRECT DRIVERS TO THE FACILITY AFTER THEIR LOAD IS DISCHARGED.
5. ALL WASHOUT FACILITIES SHALL BE LINED TO PREVENT LEACHING OF LIQUIDS INTO THE GROUND. THE LINER SHALL BE PLASTIC SHEETING HAVING A MINIMUM THICKNESS OF 10 MILS WITH NO HOLES OR TEARS, AND ANCHORED BEYOND THE TOP OF THE PIT WITH AN EARTHEN BERM, SAND BAGS, STONE, OR OTHER STRUCTURAL APPURTENANCES EXCEPT AT THE ACCESS POINT.
6. PREFABRICATED WASHOUT FACILITIES CAN BE USED BUT THEY MUST CAPTURE AND CONTAIN CONCRETE WASH AND BE SIMILARLY SIZED AS SHOWN ABOVE AND LOCATED AS NOTED ABOVE.
7. WASH WATER IS ESTIMATED TO BE 7 GALLONS PER CHUTE AND 50 GALLONS PER HOPPER OF A PUMP TRUCK AND/OR DISCHARGING DRUM.

MAINTENANCE:

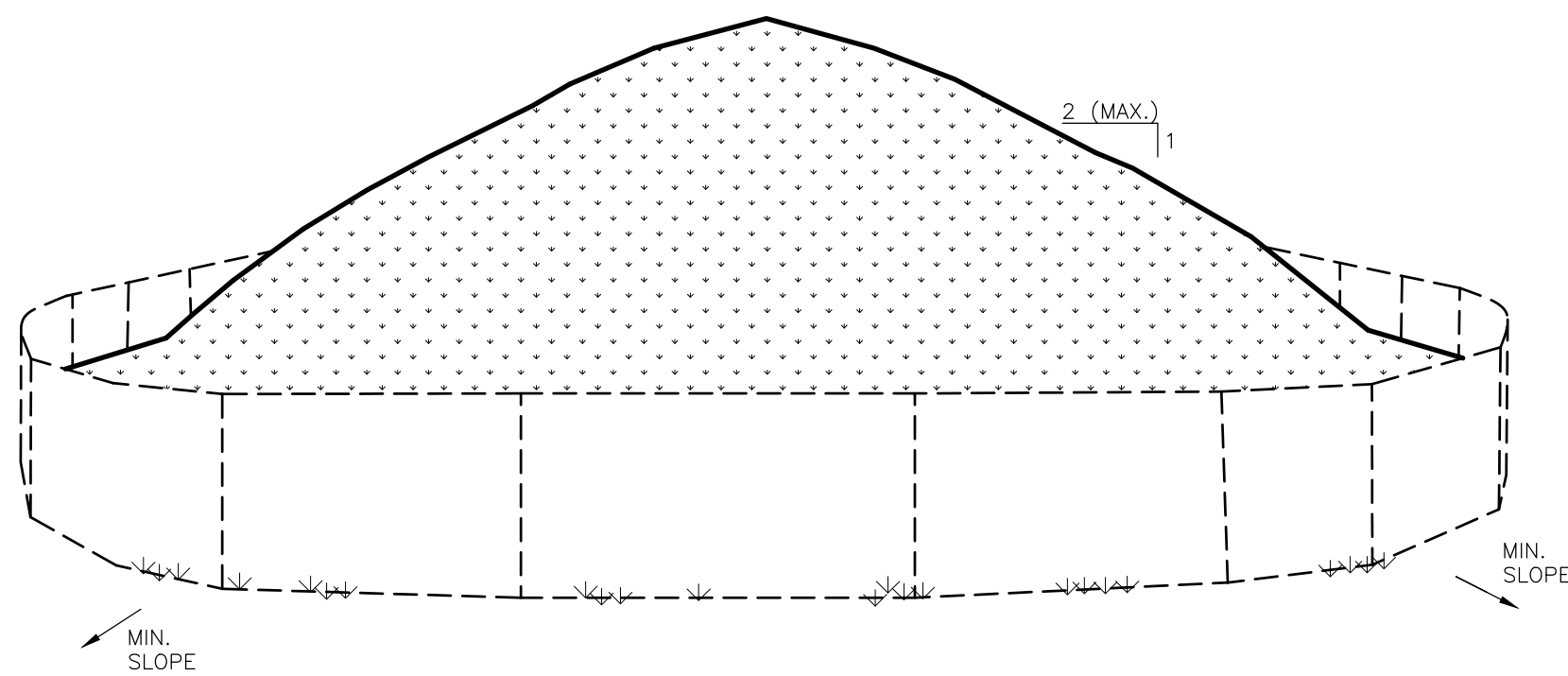
1. CONCRETE WASHOUT FACILITIES SHALL BE INSPECTED DAILY.
2. DAMAGED OR LEAKING FACILITIES SHALL BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY.
3. EXCESS ACCUMULATED RAINWATER OVER HARDENED CONCRETE SHALL BE PUMPED TO A STABILIZED AREA, SUCH AS A GRASS FILTER STRIP.
4. ACCUMULATED HARDENED MATERIAL SHALL BE REMOVED WHEN 75% OF THE STORAGE CAPACITY OF THE FACILITY IS FILLED. ANY EXCESS WASH WATER SHALL BE PUMPED INTO A CONTAINMENT VESSEL AND PROPERLY DISPOSED OF OFF-SITE AT A PERMITTED C&D LANDFILL. NO ONSITE DISPOSAL WILL BE ALLOWED.
5. THE PLASTIC LINER SHALL BE REPLACED WITH EACH CLEANING OF THE FACILITY.
6. INSPECT PROJECT SITE FREQUENTLY TO ENSURE THAT NO CONCRETE DISCHARGES ARE TAKING PLACE IN NON-DESIGNATED AREAS.

CONCRETE DELIVERY TRUCK WASHOUT AREA

DETAIL

SCALE: N.T.S.

3
6



NOTES:

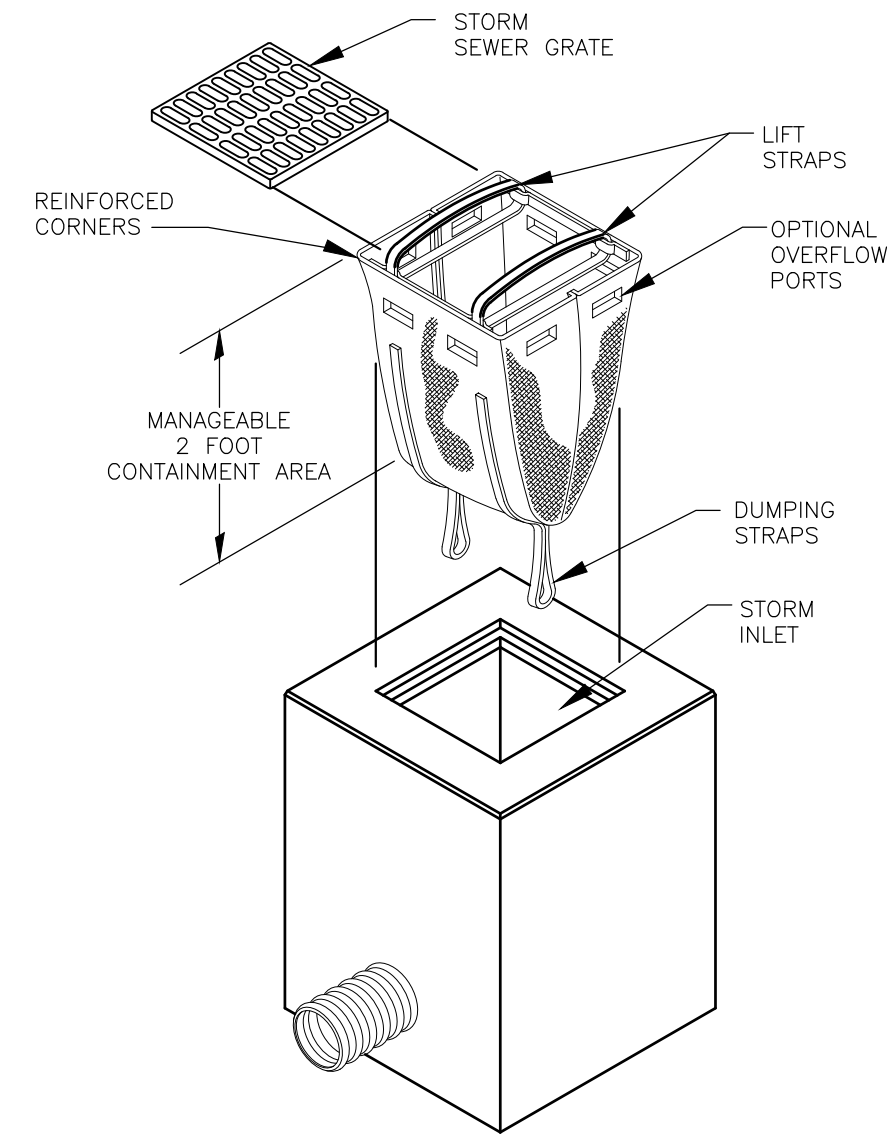
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2H:1V.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, THEN STABILIZED WITH VEGETATION OR COVERED SHOULD THE STOCKPILE REMAIN FOR MORE THAN FOURTEEN (14) DAYS.
4. PLACEMENT OF THE SURROUNDING SILT FENCE SHALL BE IN ACCORDANCE WITH THE SILT FENCE DETAIL.
5. STOCKPILE HEIGHT SHOULD NOT EXCEED TWENTY (20) FEET.

TEMPORARY SOIL STOCKPILE

DETAIL

SCALE: N.T.S.

2
6

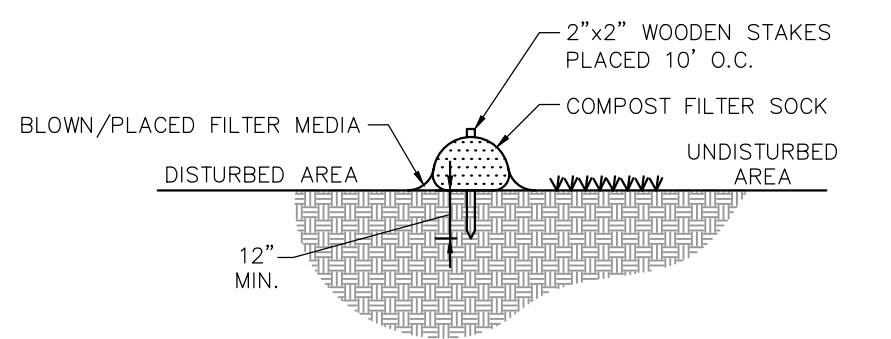


DANDY SACK INLET PROTECTION

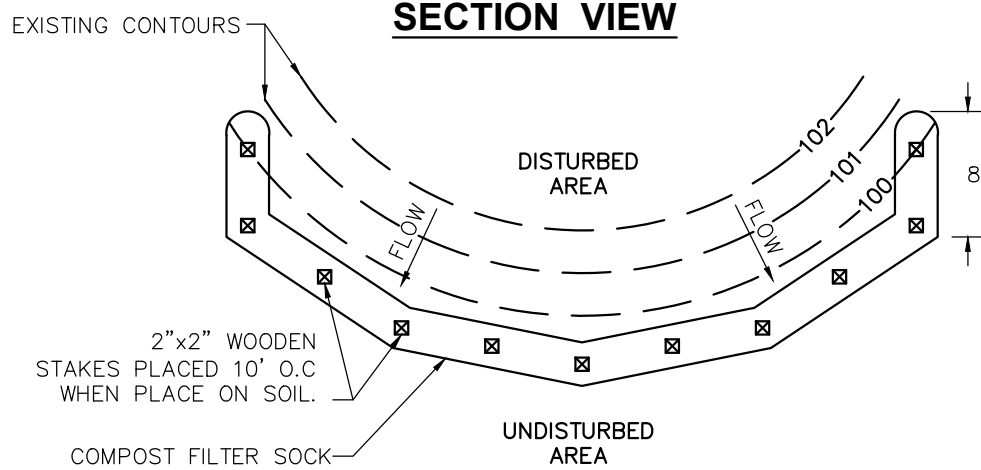
DETAIL

SCALE: N.T.S.

4
6



SECTION VIEW



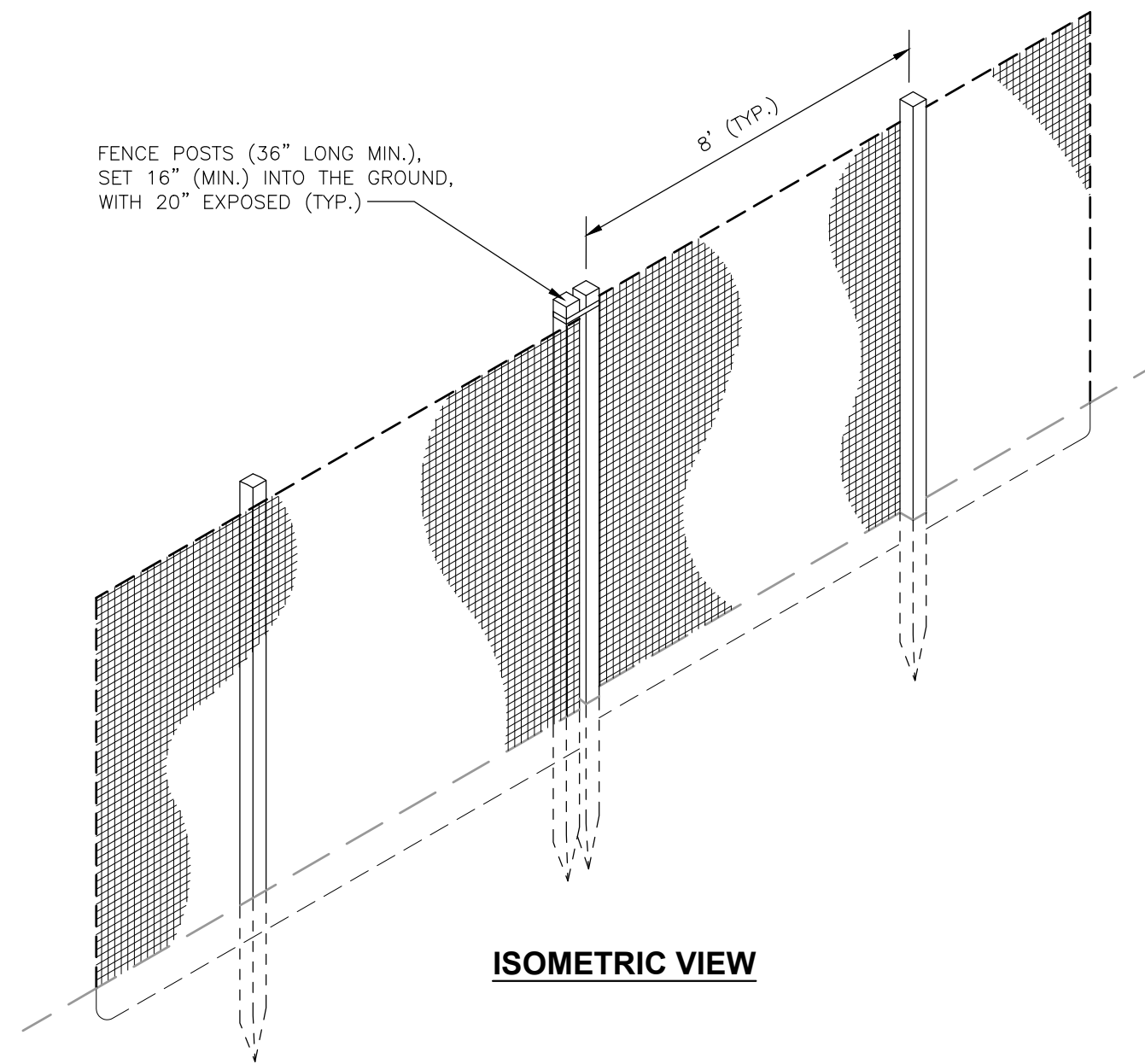
PLAN VIEW

COMPOST FILTER SOCK

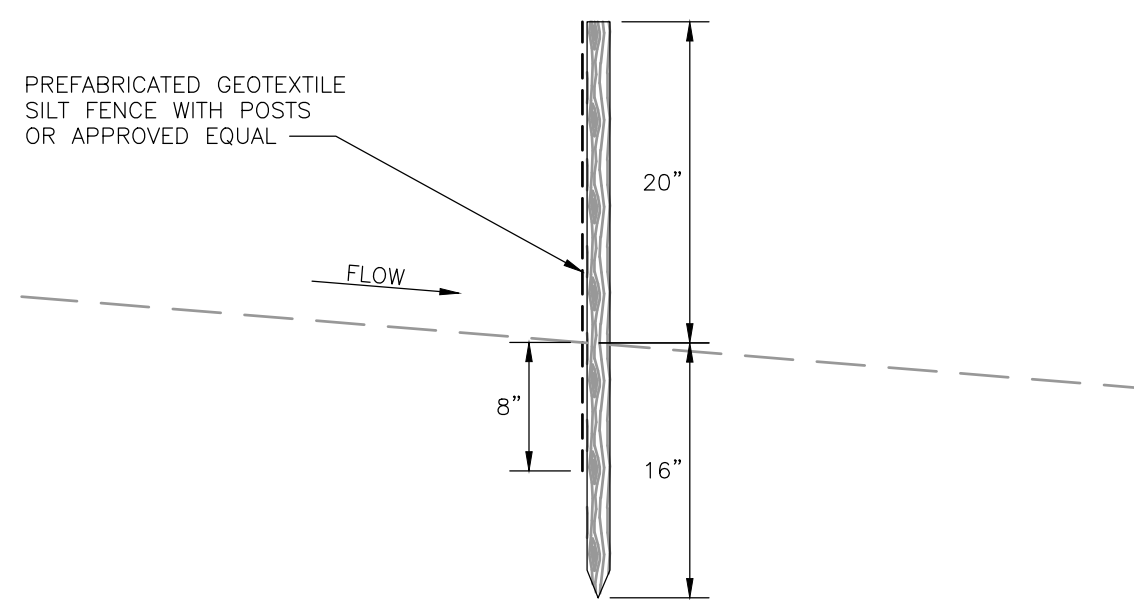
DETAIL

SCALE: N.T.S.

5
6



ISOMETRIC VIEW



SECTION VIEW

NOTES:

1. DUE TO THE DENSE COMPACTION AND PHYSICAL COMPOSITION OF THE IN-SITU SOILS THE CONTRACTOR MAY BE REQUIRED TO UTILIZE ALTERNATE MATERIALS FOR USE AS FENCE POSTS OR PRE-DRILL EMBEDMENT CORES TO ENSURE SATISFACTORY INSTALLATION AND PERFORMANCE OF THE SILT FENCE.
2. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
3. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 12" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE.
4. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED. FILTER CLOTH SHALL BE TENAX 700 OR APPROVED EQUAL.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIALS REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
6. MAXIMUM DRAINAGE AREA FOR OVERLAND FLOW TO A SILT FENCE SHALL NOT EXCEED 1/4 ACRE PER 100 FEET OF FENCE.
7. SILT FENCE SHALL BE USED WHERE EROSION COULD OCCUR IN THE FORM OF SHEET EROSION.
8. SILT FENCE SHALL NOT BE USED WHEN A CONCENTRATION OF WATER IS FLOWING TO THE BARRIER.
9. MAXIMUM ALLOWABLE SLOPE LENGTHS CONTRIBUTING RUN-OFF TO A SILT FENCE ARE:

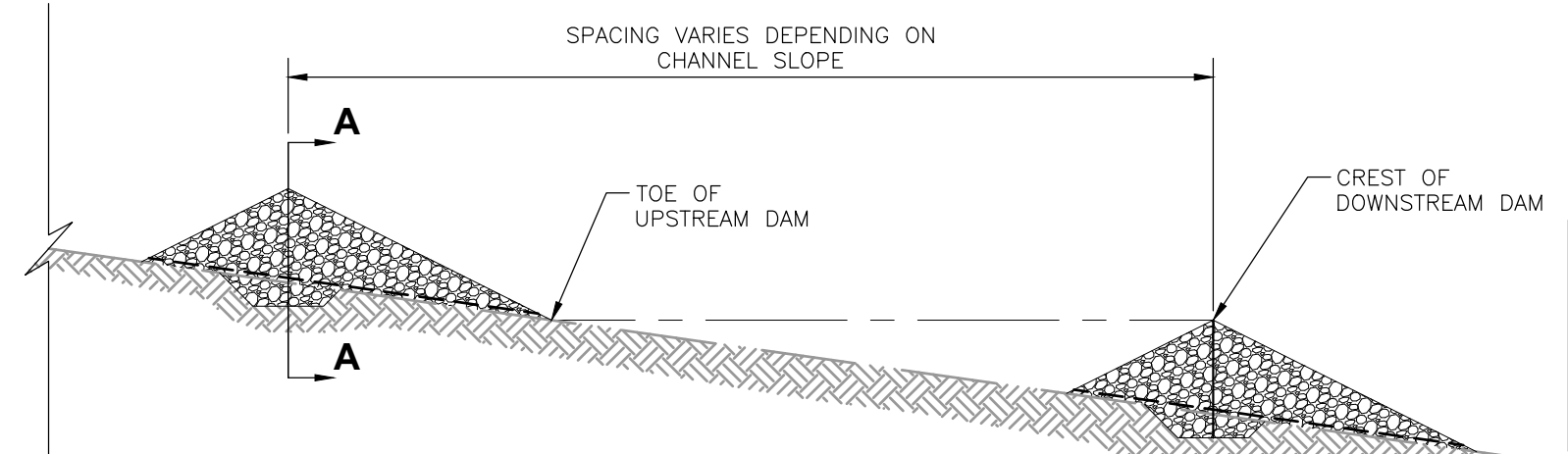
SLOPE STEEPNESS	MAXIMUM SLOPE LENGTH(FT)
2:1	25
3:1	50
4:1	75
5:1 OR FLATTER	100

REINFORCED SILT FENCE

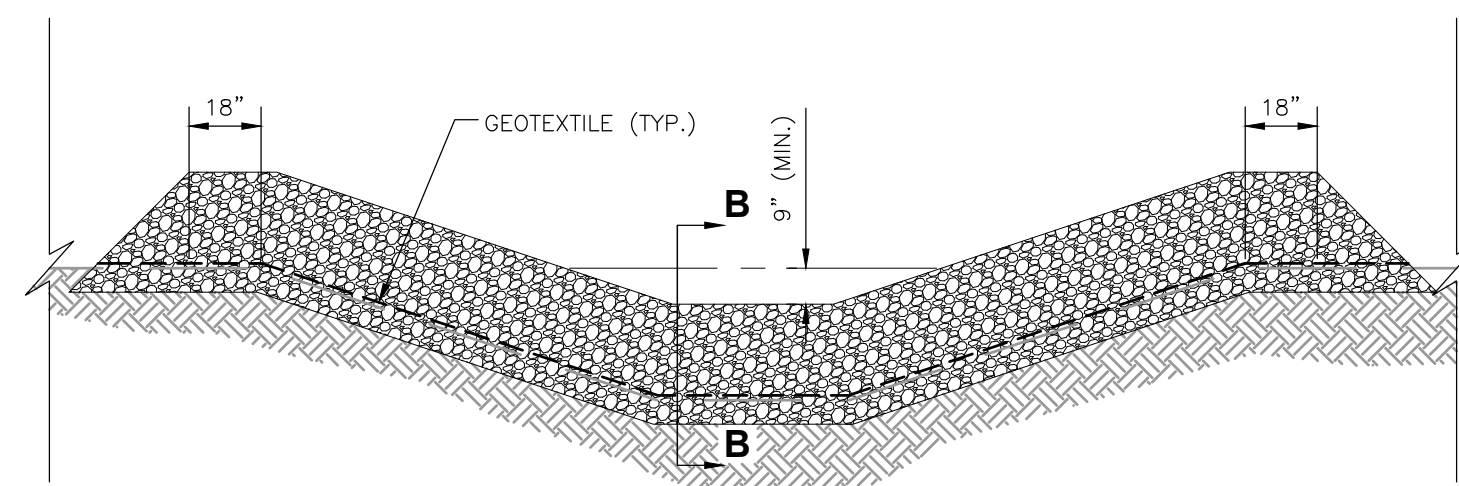
DETAIL

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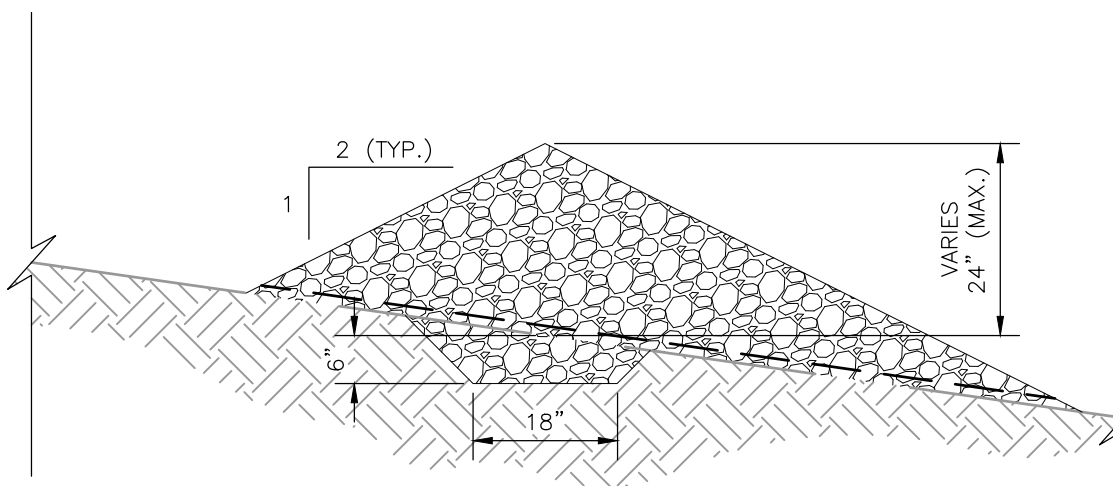
6
6



PROFILE



SECTION A-A



SECTION B-B

NOTES:

1. PLACEMENT OF STONE CHECK DAMS WILL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION.
2. STONE SHALL BE PLACED ON A GEOTEXTILE FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN ON THE PLAN AND/OR DETERMINED BY THE ENGINEER DURING CONSTRUCTION.
3. SET SPACING OF CHECK DAMS SUCH THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM ARE AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
4. EXTEND THE STONE A MINIMUM OF EIGHTEEN INCHES (18") BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
5. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR EROSION CONTROL MAT AS APPROPRIATE.
6. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAM ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
7. MAXIMUM DRAINAGE AREA IS TWO ACRES (2 AC).

STONE CHECK DAM

DETAIL

SCALE: N.T.S.

7
6

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I.W.S. TRANSFER SYSTEMS OF N.Y., INC.
GOSHEN TRANSFER STATION
95 HARTLEY ROAD, GOSHEN, NEW YORK

PROPOSED FACILITY MODIFICATIONS
PROPOSED EROSION & SEDIMENT CONTROL DETAILS

SHEET NO.

6

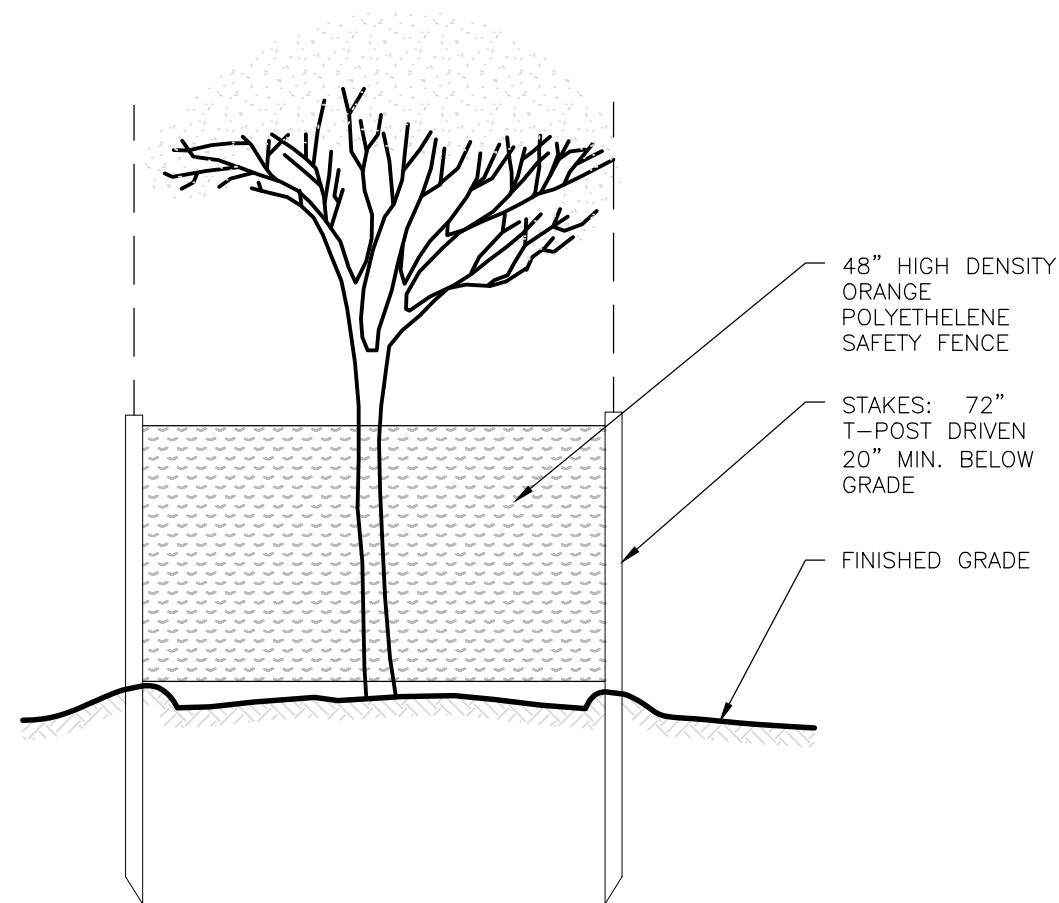
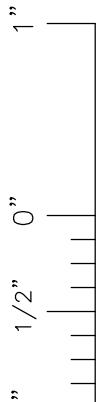
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BODHI K. PIEDMONT-FLEISCHMANN, P.E.
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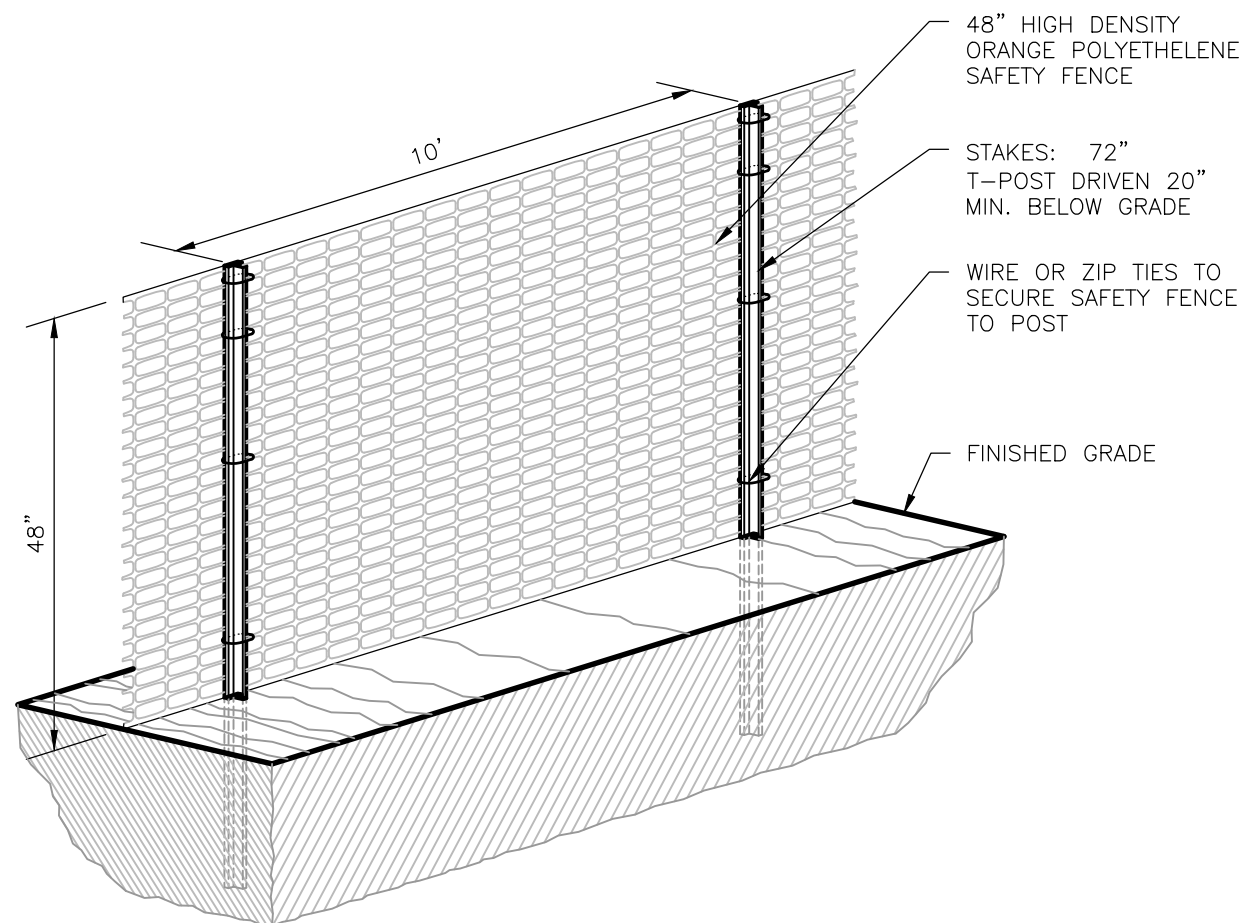


NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL CONSTRUCT AND MAINTAIN, FOR EACH PROTECTED TREE OR GROUP OF TREES, THE CONTRACTOR SHALL INSTALL PROTECTIVE FENCING AROUND THE OUTER LIMITS OF THE CRITICAL ROOT ZONE OF THE TREES TO PROTECT THEM FROM CONSTRUCTION ACTIVITY. ALL PROTECTIVE FENCING SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF ANY SITE WORK AND REMAIN IN PLACE UNTIL ALL EXTERIOR WORK HAS BEEN COMPLETED.

TYPICAL TREE PROTECTION FENCE

DETAIL 1
SCALE: N.T.S.



NOTES:

1. ALL SENSITIVE AREAS SHALL BE PROTECTED AS PER PLAN.
2. ALL TREES IN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED AND PROTECTED WITH HIGH VISIBILITY FENCE AS PER PLAN.
3. WHEN PRACTICABLE, INSTALL HIGH VISIBILITY 3 FEET OUTSIDE OF THE DRIP LINE OF THE TREE.
4. SAFETY FENCE SHOULD BE FASTENED SECURELY TO THE T-POSTS.
5. THE FENCING MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION; ANY CHANGE OF THE PROTECTIVE FENCING MUST BE APPROVED.

ORANGE CONSTRUCTION FENCE

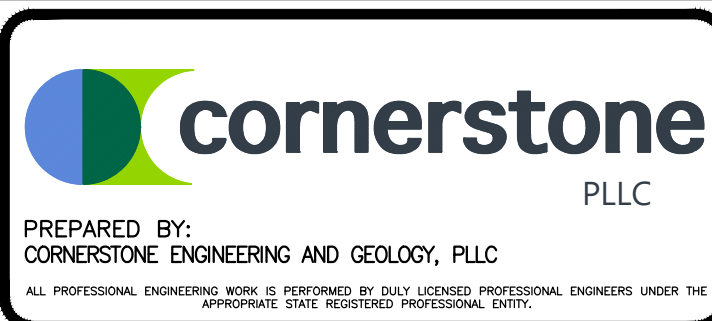
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GOSHEN TRANSFER STATION
95 HARTLEY ROAD, GOSHEN, NEW YORK

PROPOSED FACILITY MODIFICATIONS
PROPOSED MISCELLANEOUS DETAILS

SHEET NO.
7
PROJECT NO.
4223429

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APPENDIX A

**NYSDEC GENERAL PERMIT FOR STORMWATER DISCHARGES FROM
CONSTRUCTION ACTIVITY PERMIT NO. GP-0-25-001**



NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL
CONSERVATION (NYSDEC)

SPDES GENERAL PERMIT
FOR STORMWATER DISCHARGES

From

CONSTRUCTION ACTIVITY

Permit No. GP-0-25-001

Construction General Permit (CGP)

Issued Pursuant to Article 17, Titles 7, 8 and Article 70
of the Environmental Conservation Law

Effective Date: January 29, 2025

Expiration Date: January 28, 2030

Scott E. Sheeley

Chief Permit Administrator

 JAN. 29, 2025

Date

Authorized Signature

Address: NYSDEC
Division of Environmental Permits
625 Broadway, 4th Floor
Albany, N.Y. 12233-1750

PREFACE

Pursuant to Section 402 of the Clean Water Act (CWA), and 40 CFR 122.26(b)(14)(x), (15)(i), and (15)(ii), *stormwater discharges* from certain *construction activities* are unlawful unless they are authorized by a National Pollutant Discharge Elimination System (NPDES) permit or by a state permit program. New York State administers the approved State Pollutant Discharge Elimination System (SPDES) program with permits issued in accordance with the New York State Environmental Conservation Law (ECL) Article 17, Titles 7 and 8, and Article 70, as well as 6 NYCRR Parts 621 and 750.

Construction activities constitute construction of a *point source* and, therefore, pursuant to ECL sections 17-0505, 17-0701, and 17-0803, the *owner or operator* must have coverage under a SPDES permit prior to *commencement of construction activities*. The *owner or operator* cannot wait until there is an actual *discharge* from the *construction site* to obtain permit coverage.

***Note: The italicized words/phrases within this permit are defined in Appendix A.**

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SPDES CONSTRUCTION GENERAL PERMIT (CGP) GP-0-25-001
FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES**

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Part I. How to Obtain Coverage and General Requirements

To be covered under this permit, the owner or operator must meet all eligibility requirements in Part I.A. and follow the requirements for obtaining permit coverage in Part I.D., F., or G.

A. Eligibility Requirements

For a common plan of development or sale, the phase(s) that meet the eligibility requirements in Part I.A. may obtain coverage under this permit even if other phase(s) of the same common plan of development or sale do not meet the eligibility requirements and require an individual SPDES permit.

1. The owner's or operator's construction activities involve soil disturbances of:

- a. one or more acres; or
- b. less than one acre which are part of a common plan of development or sale that will ultimately disturb one or more acres; or
- c. less than one acre where NYSDEC has determined that a SPDES permit is required for stormwater discharges based on the potential for contribution to a violation of a water quality standard or for significant contribution of pollutants to surface waters of the State.
 - i. 5,000 square feet or more, but less than one acre, and are in the New York City Watershed located east of the Hudson River, Appendix C Figure 1; or
 - ii. 20,000 square feet or more, but less than one acre, within the municipal boundaries of the City of New York (NYC); or
 - iii. less than 20,000 square feet which are part of a common plan of development or sale that will ultimately disturb 20,000 square feet or more, but less than one acre, within the municipal boundaries of NYC; or
 - iv. that creates 5,000 square feet or more of impervious area within the municipal boundaries of NYC.

2. Discharges from the owner's or operator's construction activities are/were not:

- a. already covered by a different SPDES permit; or
 - b. covered under a different SPDES permit that was denied, terminated, or revoked; or
 - c. identified in an expired individual SPDES permit that was not renewed; or
 - d. required to obtain an individual SPDES permit or another general SPDES permit in accordance with Part VII.K.
3. If construction activities may adversely affect a species that is endangered or threatened, the owner or operator must obtain a:
- a. permit issued pursuant to 6 NYCRR Part 182 for the project; or
 - b. letter issued by NYSDEC of non-jurisdiction pursuant to 6 NYCRR Part 182 for the project.
4. If construction activities have the potential to affect an historic property, the owner or operator must obtain one of the following:
- a. documentation that the construction activity is not within an archeological buffer area indicated on the sensitivity map, and that the construction activity is not located on or immediately adjacent to a property listed or determined to be eligible for listing on the National or State Registers of Historic Places, and that there is no new permanent building on the construction site within the following distances from a building, structure, or object that is more than 50 years old, or if there is such a new permanent building on the construction site within those parameters that NYS Office of Parks, Recreation and Historic Preservation (OPRHP), a Historic Preservation Commission of a Certified Local Government, or a qualified preservation professional has determined that the building, structure, or object more than 50 years old is not historically/archeologically significant:
 - i. 1-5 acres of disturbance - 20 feet; or
 - ii. 5-20 acres of disturbance - 50 feet; or

Part I.A.4.a.iii.

- iii. 20+ acres of disturbance - 100 feet.
- b. NYSDEC consultation form sent to OPRHP,¹ and copied to NYSDEC's Agency Historic Preservation Officer (APO), and
 - i. the State Environmental Quality Review Act (SEQR) Environmental Assessment Form (EAF) with a negative declaration or the Findings Statement, with documentation of OPRHP's agreement with the resolution; or
 - ii. documentation from OPRHP that the *construction activity* will result in No Impact; or
 - iii. documentation from OPRHP providing a determination of No Adverse Impact; or
 - iv. a Letter of Resolution signed by the *owner or operator*, OPRHP and the DEC APO which allows for this *construction activity* to be eligible for coverage under the general permit in terms of the State Historic Preservation Act (SHPA).
- c. documentation of satisfactory compliance with Section 106 of the National Historic Preservation Act for a coterminous project area:
 - i. No Affect; or
 - ii. No Adverse Affect; or
 - iii. Executed Memorandum of Agreement.
- d. documentation that SHPA Section 14.09 has been completed by NYSDEC or another state agency.
- 5. If *construction activities* are subject to SEQR, the *owner or operator* must obtain documentation that SEQR has been satisfied.
- 6. If *construction activities* are not subject to SEQR, but subject to the equivalent environmental review from another New York State or federal agency, the

¹ The consultation form can be submitted, along with other project information, through OPRHP's Cultural Resource Information System (CRIS) portal. If submitted through CRIS, paper copies of the consultation form need not be mailed.

Part I.A.6.

- owner or operator* must obtain documentation that project review, pursuant to a process equivalent to SEQR from another New York State or federal agency, has been satisfied.
- 7. If *construction activities* require Uniform Procedures Act (UPA) Permits (see 6 NYCRR Part 621) from NYSDEC, or the equivalent from another New York State or federal agency, the *owner or operator* must:
 - a. obtain all such necessary permits; or
 - b. receive notification from NYSDEC pursuant to 6 NYCRR 621.3(a)(4) excepting Part I.A.7.a.
- 8. *Construction activities* are not eligible if they meet the following criteria in Part I.A.8.a. or b.:
 - a. For linear transportation and linear utility project types, the *construction activities*:
 - i. are within the watershed of *surface waters of the State* classified as AA or AA-S identified utilizing the Stormwater Interactive Map on NYSDEC's website; and
 - ii. are undertaken on land with no existing *impervious cover*, and
 - iii. disturb two or more acres of *steep slope*.
 - b. For all other project types, the *construction activities*:
 - i. are within the watershed of *surface waters of the State* classified as AA or AA-S identified utilizing the Stormwater Interactive Map on NYSDEC's website; and
 - ii. are undertaken on land with no existing *impervious cover*; and
 - iii. disturb one or more acres of *steep slope*.

B. Types of Discharges Authorized

1. The following *stormwater discharges* are authorized under this permit:
 - a. *Stormwater discharges*, including *stormwater* runoff, snowmelt runoff, and surface runoff and drainage, associated with *construction activity*, are authorized under this permit provided that appropriate *stormwater* controls are designed, installed, and maintained in accordance with Part II, and Part III.
 - b. *Stormwater discharges* from construction support activities at the *construction site* (including concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas, and borrow areas) if the following requirements are met:
 - i. The support activity is directly related to the *construction site* required to have permit coverage for *stormwater discharges*; and
 - ii. The support activity is not a commercial operation, nor does it serve multiple unrelated *construction sites*; and
 - iii. The support activity does not continue to operate beyond the completion of the *construction activity* at the site it supports; and
 - iv. *Stormwater* controls are implemented in accordance with Part II, and Part III, for *discharges* from the support activity areas.

2. The following non-*stormwater discharges* associated with *construction activity* are authorized under this permit:
 - a. Non-*stormwater discharges* listed in 6 NYCRR 750-1.2(a)(29)(vi), with the following exception: "*Discharges* from firefighting activities are authorized only when the firefighting activities are emergencies/unplanned"; and
 - b. Non-*stormwater discharges* of waters to which other components have not been added that are used in accordance with the *SWPPP* to control dust or irrigate vegetation in stabilized areas; and
 - c. Uncontaminated *discharges* from *dewatering* operations

3. Authorized *discharges of stormwater* or authorized *discharges of non-stormwater*, commingled with a *discharge* authorized by a different SPDES permit and/or a *discharge* that does not require SPDES permit authorization, are also authorized under this permit.

C. Prohibited Discharges

1. Non-*stormwater discharges* prohibited under this permit include but are not limited to:
 - a. Wastewater from washout of concrete; and
 - b. Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds, and other construction materials; and
 - c. Fuels, oils, or other *pollutants* used in vehicle and equipment operation and maintenance; and
 - d. Soaps, solvents, or detergents used in vehicle and equipment washing or external building washdown; and
 - e. Toxic or hazardous substances from a spill or other release.

D. Electronic Notice of Intent (eNOI) Submittal

To receive authorization in accordance with Part I.D.3.b., the *owner or operator* must submit a complete eNOI in accordance with the requirements in Part I.D. The eNOI contains questions to: ensure eligibility requirements in Part I.A. have been met; obtain *owner or operator* contact information; obtain the total area to be disturbed and the existing/future *impervious areas* (rounded to the nearest tenth of an acre); confirm *Traditional Land Use Control MS4 Operator* jurisdiction over construction projects; satisfy the EPA eRule requirements; confirm that the Water Quality-Based Effluent Limitations in Part II, have been met; demonstrate consideration of the future risks due to climate change in accordance with Part III.A.2.; and confirm that the other *Stormwater Pollution Prevention Plan (SWPPP)* requirements in Part III, have been met.

1. An eNOI may be submitted for:
 - a. *construction activities* that are not part of a *common plan of development or sale*; or

Part I.D.1.b.

- b. an entire *common plan of development or sale*; or
- c. separate *phase(s)* of a *common plan of development or sale* if the following requirements are met:
 - i. the *common plan of development or sale* meets the eligibility requirements of Part I.A.5. or 6.; and
 - ii. the *phase(s)* meet(s) all other eligibility requirements of Part I.A.; and
 - iii. Part III.C. Required *SWPPP* Components by Project Type is based on the *common plan of development or sale*, not the *phase(s)*; or
- d. *tree clearing* that is associated with, or will support, a *renewable energy* generation, transmission, or storage project that meets Part I.A.5. and 6.; if the *tree clearing*:
 - i. meets all other eligibility requirements of Part I.A.; and
 - ii. will occur in NYSDEC's Regions 3-9; and
 - iii. is not within 1/4 mile of a bat hibernaculum protected pursuant to 6 NYCRR Part 182; and
 - iv. will occur between November 1st and March 31st.

2. As prerequisites for submitting an eNOI, the *owner or operator* must:

- a. prepare a *SWPPP* for Part I.D.1.a., b., c., or d. in accordance with Part III.; and
- b. based on the following criteria, upload the following signature forms signed in accordance with Part VII.J. to the eNOI prior to submission:
 - i. for all eNOIs:
 - 1. the *SWPPP* Preparer Certification Form, Appendix F, signed by the *SWPPP* preparer; and

Part I.D.2.b.i.2.

- 2. the Owner/Operator Certification Form, Appendix J, signed by the *owner or operator*; and
- ii. if an eNOI includes *construction activities* within the municipal boundary(ies) of *Traditional Land Use Control MS4 Operator(s)* that will *discharge* to the *MS4(s)*:
 - 1. determine if the *Traditional Land Use Control MS4 Operator(s)* have review authority. A *Traditional Land Use Control MS4 Operator* does not have review authority where:
 - a. the *owner or operator* of the *construction activities* in Part I.D.2.b.ii. is the same entity as the *Traditional Land Use Control MS4 Operator* identified in Part I.D.2.b.ii.; or
 - b. there is a statute exempting the *owner or operator* from zoning review by the *Traditional Land Use Control MS4 Operator*; or
 - c. there is no such statute per Part I.D.2.b.ii.1.b., the *Traditional Land Use Control MS4 Operator* concludes, after public hearing, that it does not have zoning review authority in accordance with Legal Memorandum LU14 Updated January 2020 "Governmental Immunity from Zoning and Other Legislation"; and
 - 2. if the *Traditional Land Use Control MS4 Operator(s)* have review authority, submit the *SWPPP* to the *Traditional Land Use Control MS4 Operator(s)* for review and have:
 - a. if outside the municipal boundaries of NYC: the *MS4 SWPPP* Acceptance Form, Appendix G, signed by the principal executive officer or ranking elected official from the *Traditional Land Use Control MS4 Operator*, or by a duly authorized representative of that person in accordance with Part VII.J.2.; or

- b. if within the municipal boundaries of NYC: The City of New York Department of Environmental Protection (NYCDEP) SWPPP Acceptance/Approval Form, Appendix H, signed by the principal executive officer or ranking elected official from the Traditional Land Use Control MS4 Operator, or by a duly authorized representative of that person in accordance with Part VII.J.2.; and

- 3. if the *Traditional Land Use Control MS4 Operator* does not have review authority, have the MS4 No Jurisdiction Form, Appendix I, signed by the principal executive officer or ranking elected official from the *Traditional Land Use Control MS4 Operator*, or by a duly authorized representative of that person in accordance with Part VII.J.2.

3. Submitting an eNOI:

- a. The *owner or operator* must submit a complete Notice of Intent electronically using a NYSDEC approved form.²
- b. The *owner or operator* is authorized to *commence construction activity* as of the authorization date indicated in the Letter of Authorization (LOA), which is sent by NYSDEC after a complete eNOI is submitted.
 - i. If an eNOI is received for a *SWPPP* that deviates from one of the technical standards but demonstrates *equivalence* in accordance with Part III.B.1.a.ii. or Part III.B.2.b.ii., if the *SWPPP* includes *construction activities* that are not within the municipal boundary(ies) of *Traditional Land Use Control MS4 Operator(s)*, and/or if the *SWPPP* includes *construction activities* within the municipal boundary(ies) of *Traditional Land Use Control MS4 Operator(s)* that do not have review authority in accordance with Part I.D.2.b.ii.1., the authorization date indicated in the LOA will be 60 business days after the eNOI submission date.

² Unless NYSDEC grants a waiver in accordance with 40 CFR 127.15(c) or (d). All waiver requests must be submitted to Stormwater_info@dec.ny.gov or NYSDEC, Bureau of Water Permits, 625 Broadway, 4th Floor, Albany, New York 12233-3505.

- c. If *Traditional Land Use Control MS4 Operator(s)* have review authority in accordance with Part I.D.2.b.ii.2., the *owner or operator* must, within five business days of receipt of the LOA, send an electronic copy of the LOA to the *Traditional Land Use Control MS4 Operator(s)* with review authority.

E. General Requirements for Owners or Operators with Permit Coverage

1. As of the date the LOA is received, the *owner or operator* must make the eNOI, *SWPPP*, and LOA available for review and copying in accordance with the requirements in Part VII.H. When applicable, as of the date an updated LOA is received, the *owner or operator* must make the updated LOA available for review and copying in accordance with the requirements in Part VII.H.
2. The *owner or operator* must ensure compliance with all requirements of this permit and that the provisions of the *SWPPP*, including any changes made to the *SWPPP* in accordance with Part III.A.5., are properly implemented and maintained from the *commencement of construction activity* until:
 - a. all areas of disturbance have achieved *final stabilization*; and
 - b. the *owner's* or *operator's* coverage under this permit is terminated in accordance with Part V.A.5.a.
3. As of the date of the *commencement of construction activities* until Part I.E.2.a. and b. have been met, the *owner or operator* must maintain at the *construction site*, a copy of:
 - a. all documentation necessary to demonstrate eligibility with this permit; and
 - b. this permit; and
 - c. the *SWPPP*; and
 - d. the signed *SWPPP* Preparer Certification Form; and
 - e. the signed MS4 *SWPPP* Acceptance Form or signed NYCDEP *SWPPP* Acceptance/Approval Form or signed MS4 No Jurisdiction Form (when applicable); and
 - f. the signed *Owner/Operator* Certification Form; and

Part I.E.3.g.

- g. the eNOI; and
 - h. the LOA; and
 - i. the LOA transmittal to the Traditional Land Use Control MS4 Operator in accordance with Part I.D.3.c. (when applicable).
4. The *owner or operator* must maintain at the *construction site*, until Part I.E.2.a. and b. have been met, as of the date the documents become final or are received, a copy of the:
- a. responsible contractor's or subcontractor's certification statement(s) in accordance with Part III.A.7.; and
 - b. inspection reports in accordance with Part IV.C.4. and 6.; and
 - c. Request to Disturb Greater Than Five Acres and the Authorization Letter to Disturb Greater Than Five Acres in accordance with Part I.E.6. (when applicable); and
 - d. Request to Continue Coverage and the Letter of Continued Coverage (LOCC) in accordance with Part I.F.2. and 4. (when applicable); and
 - e. The updated LOA(s) in accordance with Part I.E.9. (when applicable).
5. The *owner or operator* must maintain the documents in Part I.E.3. and 4. in a secure location, such as a job trailer, on-site construction office, or mailbox with lock. The secure location must be accessible during normal business hours to an individual performing a compliance inspection. The documents must be paper documents unless electronic documents are accessible to the inspector during an inspection to the same extent as a paper copy stored at the site would be. If electronic documents are kept on site, the *owner or operator* must maintain functional equipment on site available to an inspector during normal hours of operation such that an inspector may view the electronic documents in a format that can be read in a similar manner as a paper record and in a legally dependable format with no less evidentiary value than their paper equivalent.
6. The *owner or operator* must meet the following requirements prior to disturbing greater than five acres of soil at any one time:
- a. The *owner or operator* must submit a written Request to Disturb Greater Than Five Acres to:

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Part I.E.6.a.i.

- i. NYSDEC's Regional Office Division of Water staff based on the project location, Appendix E, if a *Traditional Land Use Control MS4 Operator* does not have review authority in accordance with Part I.D.2.b.ii.1.; or
 - ii. the *Traditional Land Use Control MS4 Operator*, if a *Traditional Land Use Control MS4 Operator* has review authority in accordance with Part I.D.2.b.ii.1.; or
 - iii. NYSDEC's Regional Office Division of Water staff based on the project location, Appendix E, and each involved *Traditional Land Use Control MS4 Operator*, if the project spans multiple municipalities with more than one *Traditional Land Use Control MS4 Operator* involved with review authority in accordance with Part I.D.2.b.ii.1.
- b. The written Request to Disturb Greater Than Five Acres must include:
- i. The SPDES permit identification number (Permit ID); and
 - ii. Full technical justification demonstrating why alternative methods of construction that would result in five acres of soil disturbance or less at any one time are not feasible; and
 - iii. The phasing plan for the project and sequencing plans for all phases from the *SWPPP* in accordance with Part III.B.1.d.; and
 - iv. Plans with locations and details of erosion and sediment control practices such that the heightened concern for erosion when disturbing greater than five acres at one time has been addressed; and
 - v. Acknowledgment that "the *owner or operator* will comply with the requirements in Part IV.C.2.b."; and
 - vi. Acknowledgment that "the *owner or operator* will comply with the requirements in Part II.B.1.b."
- c. The *owner or operator* must be in receipt of an Authorization Letter to Disturb Greater Than Five Acres, which will include when the

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authorization begins and ends and indicate a maximum area (acres) of soil disturbance allowed at any one time, from:

- i. NYSDEC, if Part I.E.6.a.i. or iii. apply; or
- ii. the *Traditional Land Use Control MS4 Operator*, if Part I.E.6.a.ii. applies.

7. Upon a finding of significant non-compliance with the practices described in the *SWPPP* or violation of this permit, NYSDEC may order an immediate stop to all *construction activity* at the site until the non-compliance is remedied. The stop work order must be in writing, describe the non-compliance in detail, and be sent to the *owner or operator*.

8. If any human remains or archaeological remains are encountered during excavation, the *owner or operator* must immediately cease, or cause to cease, all *construction activity* in the area of the remains and notify the appropriate Regional Water Engineer (RWE).³ *Construction activity* shall not resume until written permission to do so has been received from the RWE.

9. To be authorized to implement modifications to the information previously submitted in the eNOI, the *owner or operator* must:

- a. notify NYSDEC via email at Stormwater_info@dec.ny.gov requesting access to update the eNOI; and
- b. update the eNOI to reflect the modifications and resubmit the eNOI in accordance with Part I.D.; and
- c. receive an updated LOA.

10. The eNOI, *SWPPP*, LOA, updated LOAs (when applicable), and inspection reports required by this permit are public documents that the *owner or operator* must make available for review and copying by any person within five business days of the *owner or operator* receiving a written request by any such person to review these documents. Copying of documents will be done at the requester's expense.

³ The Regional Water Manager where a DEC Region does not have a RWE.

F. Permit Coverage for Discharges Authorized Under GP-0-20-001

When applicable:

1. Upon the effective date of this permit, an *owner or operator* of a *construction activity*, with coverage under GP-0-20-001, will have interim coverage under GP-0-25-001 for 45 calendar days starting on the effective date of GP-0-25-001 so long as the *owner or operator* maintains compliance with all applicable requirements of this permit.
2. Within 30 calendar days of the effective date of this permit, the *owner or operator*, with coverage under GP-0-20-001, must submit a complete Request to Continue Coverage electronically using a NYSDEC approved form,⁴ which contains the information identified in Part I.F.3. below, if:
 - a. the *owner or operator* continues to implement the SMP component in conformance with the technical standards in place at the time of initial project authorization; and
 - b. the *owner or operator* will comply with all non-design requirements of GP-0-25-001.
3. The Request to Continue Coverage form contains questions to: ensure eligibility requirements in Part I.A. have been met; verify *owner or operator* contact information; verify the permit identification number; verify the original eNOI submission ID, if applicable; verify Part I.F.2.a. and b.; verify the version of the Design Manual that the technical/design components conform to; and receive an updated Owner/Operator Certification Form, Appendix I.
4. The *owner or operator* has obtained continued coverage under GP-0-25-001 as of the date indicated in the LOCC, which is sent by NYSDEC after a complete Request to Continue Coverage form is submitted.
5. If the *owner or operator* does not submit the Request to Continue Coverage form in accordance with Part I.F.2. and 3., coverage under this permit is automatically terminated after interim coverage expires.

⁴ Unless NYSDEC grants a waiver in accordance with 40 CFR 127.15(c) or (d). All waiver requests must be submitted to Stormwater_info@dec.ny.gov or NYSDEC, Bureau of Water Permits, 625 Broadway, 4th Floor, Albany, New York 12233-3505.

G. Change of Owner or Operator

When applicable:

1. When property ownership changes, or when there is a change in operational control over the construction plans and specifications, the following process applies:
 - a. The new owner or operator must meet the applicable prerequisites for submitting an eNOI in accordance with Part I.D.2.; and
 - b. The new owner or operator must submit an eNOI in accordance with Part I.D.3.; and
 - c. Permit coverage for the new owner or operator will be effective upon receipt of the LOA in accordance with Part I.D.3.b.; and
 - d. The new owner or operator, upon receipt of their LOA, must provide their Permit ID to the original owner or operator; and
 - e. If the original owner or operator will no longer be the owner or operator of the construction activity identified in the original owner's or operator's eNOI, the original owner or operator, upon receipt of the new owner's or operator's Permit ID in accordance with Part I.G.1.d., must submit to NYSDEC a completed eNOT in accordance with Part V. that includes the name and Permit ID of the new owner or operator; or
 - f. If the original owner or operator maintains ownership of a portion of the construction activity, the original owner or operator must maintain their coverage under the permit by modifying their eNOI; modifications to the eNOI must include:
 - i. the revised area of disturbance and/or impervious area(s); and
 - ii. the revised SMP information, if applicable; and
 - iii. a narrative description of what has changed; and
 - iv. the new owner's or operator's Permit ID for the portion of the project removed from the eNOI.

Owners or operators must follow Part I.E.9. to modify the eNOI.

Part II. Water Quality-Based Effluent Limitations

A. Maintaining Water Quality

NYSDEC expects that compliance with the requirements of this permit will control discharges necessary to meet applicable water quality standards. It shall be a violation of the ECL for any discharge to either cause or contribute to a violation of the following water quality standards as contained in Parts 700 through 705 of Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York:

1. There must be no increase in turbidity that will cause a substantial visible contrast to natural conditions; and
2. There must be no increase in suspended, colloidal or settleable solids that will cause deposition or impair the waters for their best usages; and
3. There must be no residue from oil and floating substances, nor visible oil film, nor globules of grease.

If there is evidence indicating that the stormwater discharges authorized by this permit are causing, have the reasonable potential to cause, or are contributing to a violation of the water quality standard, the owner or operator must take appropriate corrective action in accordance with Part IV.C.5. of this permit and document in accordance with Part IV.C.4. of this permit. To address the water quality standard violation the owner or operator must include and implement appropriate controls in the SWPPP to correct the problem or obtain an individual SPDES permit.

If, despite compliance with the requirements of this permit, it is demonstrated that the stormwater discharges authorized by this permit are causing or contributing to a violation of water quality standards, or if NYSDEC determines that a modification of this permit is necessary to prevent a violation of water quality standards, the authorized discharges will no longer be eligible for coverage under this permit, and the owner or operator must obtain an individual SPDES permit prior to further discharges from the construction site.

B. Effluent Limitations Applicable to Discharges from Construction Activities

Discharges authorized by this permit must achieve, at a minimum, the effluent limitations in Part II.B.1.a., b., c., d., and e. These limitations represent the

Part II.B.

degree of effluent reduction attainable by the application of best practicable technology currently available.

1. Erosion and Sediment Control Requirements - The owner or operator must select, design, install, implement, and maintain control measures to *minimize the discharge of pollutants* and prevent a violation of the *water quality standards*. The selection, design, installation, implementation, and maintenance of these control measures must meet the non-numeric effluent limitations in Part II.B.1.a., b., c., d., and e, and be in accordance with the New York State Standards and Specifications for Erosion and Sediment Control (BB), dated November 2016, using sound engineering judgment. Where control measures are not designed in conformance with the design criteria included in the technical standard, the owner or operator must include in SWPPP the reason(s) for the deviation, or alternative design, and provide information in the SWPPP demonstrating that the deviation or alternative design is *equivalent* to the technical standard.

- a. **Erosion and Sediment Controls.** At a minimum, erosion and sediment controls must be selected, designed, installed, implemented, and maintained to:

- i. *Minimize* soil erosion through application of runoff control and soil stabilization control measure to *minimize pollutant discharges*; and
- ii. Control *stormwater discharges*, including both peak flow rates and total *stormwater* volume, to *minimize* channel and *streambank* erosion and scour in the immediate vicinity of the *discharge* points; and
- iii. *Minimize* the amount of soil exposed during *construction activity*; and
- iv. *Minimize* the disturbance of *steep slope*; and
- v. *Minimize* sediment *discharges* from the site; and
- vi. Provide and maintain *natural buffers* around surface waters, direct *stormwater* to vegetated areas and maximize *stormwater* infiltration to reduce *pollutant discharges*, unless *infeasible*; and
- vii. *Minimize* soil compaction. *Minimizing* soil compaction is not required

Part II.B.1.a.vii.

where the intended function of a specific area of the site dictates that it be compacted; and

- viii. Unless *infeasible*, preserve a sufficient amount of topsoil to complete soil restoration and establish a uniform, dense vegetative cover; and
- ix. *Minimize* dust. On areas of exposed soil, *minimize* dust through the appropriate application of water or other dust suppression techniques to control the generation of *pollutants* that could be discharged from the site.

- b. **Soil Stabilization.** In areas where soil disturbance activity has ceased, whether permanently or *temporarily ceased*, the application of soil stabilization measures must be initiated by the end of the next business day and completed within 14 calendar days from the date the current soil disturbance activity ceased. For *construction sites* that *directly discharge* to one of the 303(d) segments listed in Appendix D, or are located in one of the watersheds listed in Appendix C, or are authorized to disturb greater than five acres in accordance with Part I.E.5.a.viii., the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven calendar days from the date the soil disturbance activity ceased.

- c. **Dewatering.** *Discharges* from *dewatering* activities, including *discharges* from *dewatering* of trenches and excavations, must be managed by appropriate control measures.

- d. **Pollution Prevention Measures.** Select, design, install, implement, and maintain effective pollution prevention measures to *minimize the discharge of pollutants* and prevent a violation of the *water quality standards*. At a minimum, such measures must be selected, designed, installed, implemented, and maintained to:

- i. *Minimize the discharge of pollutants* from equipment and vehicle washing, wheel wash water, and other wash waters. Soaps, detergents and solvents cannot be used; and
- ii. *Minimize* the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, hazardous and toxic waste, and other materials present on the site to precipitation

Part II.B.1.d.ii.

and to stormwater. Minimization of exposure is not required in cases where the exposure to precipitation and to stormwater will not result in a discharge of pollutants, or where exposure of a specific material or product poses little risk of stormwater contamination (such as final products and materials intended for outdoor use), and

- iii. Prevent the discharge of pollutants from spills and leaks and implement chemical spill and leak prevention and response procedures.

e. **Surface Outlets.** When discharging from basins and impoundments, the surface outlets must be designed, constructed, and maintained in such a manner that sediment does not leave the basin or impoundment and that erosion at or below the outlet does not occur.

C. Post-Construction Stormwater Management Practice (SMP) Requirements

1. The owner or operator of a construction activity that requires post-construction SMPs, in accordance with Part III.C., must select, design, install, implement, and maintain the SMPs to meet the performance criteria in the New York State Stormwater Management Design Manual, dated July 31, 2024 (DM), using sound engineering judgment. Where SMPs are not designed in conformance with the performance criteria in the DM, the owner or operator must include in the SWPPP the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is equivalent to the technical standard.

2. The owner or operator of a construction activity, that requires SMPs in accordance with Part III.C., must design the practices to meet the applicable sizing criteria in Part II.C.2.a., b., c., or d.

a. Sizing Criteria for New Development

- i. Runoff Reduction Volume (RRv) and Water Quality Volume (WQv):
 1. Reduce the total WQv by application of RR techniques and standard SMPs with RRv capacity. The total WQv must be calculated in accordance with the criteria in Section 4.2 of the DM; or

Part II.C.2.a.i.2.

2. Minimum RRv and Treatment of Remaining Total WQv: Construction activities that cannot meet the requirements in Part II.C.2.a.i.1. due to site limitations must direct runoff from all newly constructed impervious areas to a RR technique or standard SMP with RRv capacity unless infeasible. The specific site limitations that prevent the reduction of 100% of the WQv must be documented in the SWPPP. For each impervious area that is not directed to a RR technique or standard SMP with RRv capacity, the SWPPP must include documentation which demonstrates that all options were considered and for each option explains why it is considered infeasible.

In no case shall the runoff reduction achieved from the newly constructed impervious areas be less than the Minimum RRv as calculated using the criteria in Section 4.4 of the DM. The remaining portion of the total WQv that cannot be reduced must be treated by application of standard SMPs.

- ii. Channel Protection Volume (CPv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event, remaining after runoff reduction. Where a CPv control orifice is provided, the minimum orifice size must be 3 inches, with acceptable external trash rack or orifice protection. The CPv requirement does not apply when:

1. Reduction of the entire CPv is achieved by application of runoff reduction techniques or infiltration systems; or
2. The 1-year post-development peak discharge is less than or equal to 2.0 cfs without detention or velocity controls; or
3. The site directly discharges into a fifth order or larger water body (stream, river, or lake), or tidal waters, where the increase in smaller flows will not impact the stream bank or channel integrity. However, the point of discharge must be adequately protected against scour and erosion by the increased peak discharge.

iii. **Overbank Flood Control Criteria (Qp):** Requires storage to attenuate the post-development 10-year, 24-hour peak *discharge* rate (Qp) to predevelopment rates. The Qp requirement does not apply when:

1. the site *directly discharges* to tidal waters or fifth order or larger streams, or
2. A downstream analysis reveals that *overbank* control is not required.

iv. **Extreme Flood Control Criteria (Qf):** Requires storage to attenuate the post-development 100-year, 24-hour peak *discharge* rate (Qf) to predevelopment rates. The Qf requirement does not apply when:

1. the site *directly discharges* to tidal waters or fifth order or larger streams, or
2. A downstream analysis reveals that *overbank* control is not required.

b. Sizing Criteria for New Development in Enhanced Phosphorus Removal Watersheds

i. Runoff Reduction Volume (RRv) and Water Quality Volume (WQv):

1. Reduce the WQv by application of RR techniques and standard SMPs with RRv capacity. The total WQv is the runoff volume from the 1-year, 24-hour design storm over the post-developed watershed and must be calculated in accordance with the criteria in Section 4.3 of the DM; or
2. Minimum RRv and Treatment of Remaining Total WQv:
Construction activities that cannot meet the criteria in Part II.C.2.b.i.1, due to *site limitations* must direct runoff from all newly constructed *impervious areas* to a RR technique or standard SMP with RRv capacity unless *infeasible*. The specific *site limitations* that prevent the reduction of 100% of the WQv must be documented in the *SWPPP*. For each *impervious area* that is not directed to a RR technique or standard SMP with RRv capacity, the *SWPPP* must include

documentation which demonstrates that all options were considered and for each option explains why it is considered *infeasible*.

In no case shall the runoff reduction achieved from the newly constructed *impervious areas* be less than the Minimum RRv as calculated using the criteria in Section 4.5 of the DM. The remaining portion of the total WQv that cannot be reduced must be treated by application of standard SMPs.

ii. Channel Protection Volume (CPv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event, remaining after runoff reduction. Where a CPv control orifice is provided, the minimum orifice size must be 3 inches, with acceptable external trash rack or orifice protection. The CPv requirement does not apply when:

1. Reduction of the entire CPv is achieved by application of runoff reduction techniques or infiltration systems; or
2. The 1-year post-development peak *discharge* is less than or equal to 2.0 cfs; or
3. The site *directly discharges* to tidal waters, or a fifth order or larger water body (stream, river, or lake) where the increase in smaller flows will not impact the stream bank or channel integrity. However, the point of *discharge* must be adequately protected against scour and erosion by the increased peak *discharge*.

iii. **Overbank Flood Control Criteria (Qp):** Requires storage to attenuate the post-development 10-year, 24-hour peak *discharge* rate (Qp) to predevelopment rates. The Qp requirement does not apply when:

1. the site *directly discharges* to tidal waters or fifth order or larger streams; or
2. A downstream analysis reveals that *overbank* control is not required.

- iv. Extreme Flood Control Criteria (Qf): Requires storage to attenuate the post-development 100-year, 24-hour peak *discharge* rate (Qf) to predevelopment rates. The Qf requirement does not apply when:

1. the site *directly discharges* to tidal waters or fifth order or larger streams; or
2. A downstream analysis reveals that *overbank* control is not required.

c. Sizing Criteria for Redevelopment Activity

- i. Water Quality Volume (WQv): The WQv treatment objective for *redevelopment activity* must be addressed by one of the following options, as outlined in Section 9.2.1. *Redevelopment activities* located in an Enhanced Phosphorus Removal Watershed (see Part III.B.3. and Appendix C) must calculate the WQv in accordance with Section 4.3 of the DM. All other *redevelopment activities* must calculate the WQv in accordance with Section 4.2 of the DM.

1. Reduce the existing *impervious cover* by a minimum of 25% of the total disturbed, *impervious area*. The Soil Restoration criteria in Section 5.1.6 of the DM must be applied to all newly created pervious areas; or
2. Capture and treat 100% of the required WQv, for a minimum of 25% of the disturbed *redevelopment impervious area*, by implementation of standard SMPs or reduced by application of runoff reduction techniques; or
3. Capture and treat 100% of the required WQv, for a minimum of 75% of the disturbed *redevelopment impervious area*, by implementation of a volume-based alternative SMP, as defined in Section 9.4 of the DM; or
4. Capture and treat 100% of the required WQv, for a minimum of 75% of the disturbed *redevelopment impervious area*, by implementation of a flow-through alternative SMP sized to treat the peak rate of runoff from the WQv design storm; or

5. Application of a combination of 1 through 4 above that provide a weighted average of at least two of the above methods. Application of this method must be in accordance with the criteria in Section 9.2.1(A)(V) of the DM; or

6. If there is an existing SMP located on the site that captures and treats runoff from the *impervious area* that is being disturbed, the WQv treatment option selected must, at a minimum, provide treatment equal to the treatment that was being provided by the existing practice(s) if that treatment is greater than the treatment required by options 1 through 5 above.

- ii. Channel Protection Volume (CPv) is not required if there is 0% change to hydrology that increases the *discharge* rate and volume from the project site.
- iii. Overbank Flood Control (Qp) is not required if there is 0% change to hydrology that increases the *discharge* rate from the project site.
- iv. Extreme Flood Control (Qf) is not required if there is 0% change to hydrology that increases the *discharge* rate from the project site.

d. Sizing Criteria for Combination of Redevelopment Activity and New Development

Construction projects, that include both *new development* and *redevelopment activity*, must use SMPs that meet the *sizing criteria* calculated as an aggregate of the *sizing criteria* in Part II.C.2.a. or b. for the *new development* portion of the project and Part II.C.2.c. for the *redevelopment activity* portion of the project.

Part III. Stormwater Pollution Prevention Plan (SWPPP)

A. General SWPPP Requirements

1. A *SWPPP* must be prepared and implemented by the owner or operator of all *construction activity* covered by this permit. All authorized *discharges* must be identified in the *SWPPP*. The *SWPPP* must document the selection, design, installation, implementation and maintenance of the control measures and

Part III.A.1.

practices that will be used to meet the effluent limitations in Part II.B. and, where applicable, the SMP requirements in Part II.C.

2. The *SWPPP* must demonstrate consideration in narrative format of the future physical risks due to climate change pursuant to the Community Risk and Resiliency Act (CRRRA), 6 NYCRR Part 490, and associated guidance.

a. The owner or operator must consider:

i. the following physical risks due to climate change:

- (i) increasing temperature; and
- (ii) increasing precipitation; and
- (iii) increasing variability in precipitation, including chance of drought; and
- (iv) increasing frequency and severity of flooding; and
- (v) rising sea level; and
- (vi) increasing storm surge; and
- (vii) shifting ecology.

ii. for each of the following:

- (i) overall site planning; and
- (ii) location, elevation, and sizing of:
 - a. control measures and practices; and
 - b. conveyance system(s); and
 - c. detention system(s).

3. The *SWPPP* must describe the erosion and sediment control practices and where required, SMPs that will be used and/or constructed to reduce the *pollutants in stormwater discharges* and to assure compliance with the

Part III.A.3.

requirements of this permit. In addition, the *SWPPP* must identify potential sources of pollution which may reasonably be expected to affect the quality of *stormwater discharges*.

4. All *SWPPPs*, that require the SMP component in accordance with Part III.B.2., must be prepared by a *qualified professional*.

5. The *owner or operator* must keep the *SWPPP* current so that, at all times, it accurately documents the erosion and sediment control practices that are being used or will be used during construction, and all SMPs that will be constructed on the site. At a minimum, the *owner or operator* must modify the *SWPPP*, including construction drawings:

- a. whenever the current provisions prove to be ineffective in *minimizing pollutants in stormwater discharges* from the site; and
- b. whenever there is a change in design, construction, or operation at the *construction site* that has or could have an effect on the *discharge of pollutants*; and
- c. to address issues or deficiencies identified during an inspection by the *qualified inspector*, NYSDEC, or other regulatory authority; and
- d. to document the final construction conditions in an as-built drawing.

6. NYSDEC may notify the *owner or operator* at any time that the *SWPPP* does not meet one or more of the minimum requirements of this permit. The notification must be in writing and identify the provisions of the *SWPPP* that require modification. Within fourteen (14) calendar days of such notification, or as otherwise indicated by NYSDEC, the *owner or operator* must make the required changes to the *SWPPP* and submit written notification to NYSDEC that the changes have been made. If the *owner or operator* does not respond to NYSDEC's comments in the specified time frame, NYSDEC may suspend the *owner's or operator's* coverage under this permit or require the *owner or operator* to obtain coverage under an individual SPDES permit in accordance with Part II.D.4.

7. Prior to the *commencement of construction activity*, the *owner or operator* must identify the contractor(s) and subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting, and maintaining the erosion and sediment control practices included in the *SWPPP* and the

Part III.A.7.
contractor(s) and subcontractor(s) that will be responsible for constructing the SMPs included in the *SWPPP*. The *owner or operator* must have each of the contractors and subcontractors identify at least one person from their company to be *trained contractor* that will be responsible for implementation of the *SWPPP*. The *owner or operator* must ensure that at least one *trained contractor* is on site daily when soil disturbance activities are being performed.

The *owner or operator* must have each of the contractors and subcontractors identified above sign a copy of the following certification statement below before the *commencement of construction activities*:

"I hereby certify under penalty of law that I understand and agree to comply with the requirements of the *SWPPP* and agree to implement any corrective actions identified by the *qualified inspector* during a site inspection. I also understand that the *owner or operator* must comply with the requirements of the most current version of the New York State Pollutant Discharge Elimination System (SPDES) Construction General Permit (CGP) for Stormwater Discharges from Construction Activities and that it is unlawful for any person to cause or contribute to a violation of *water quality standards*. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations"

In addition to providing the certification statement above, the certification page must also identify the specific elements of the *SWPPP* that each contractor and subcontractor will be responsible for and include the name and title of the person providing the signature; the name and title of the *trained contractor* responsible for *SWPPP* implementation; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification statement is signed. The *owner or operator* must attach the certification statement(s) to the copy of the *SWPPP* that is maintained at the *construction site*. If new or additional contractors are hired to implement measures identified in the *SWPPP* after the *commencement of construction activities*, they must also sign the certification statement and provide the information listed above prior to performing *construction activities*.

B. Required *SWPPP* Contents

1. Erosion and sediment control component - The *owner or operator* must prepare a *SWPPP* that includes erosion and sediment control practices.
 - a. Erosion and sediment control practices must be designed:
 - i. in conformance with the BB; or
 - ii. *equivalent* to the BB if deviating from Part III.B.1.a.i.
 - b. If the erosion and sediment control practices are designed in conformance with Part III.B.1.a.ii., the *SWPPP* must include a demonstration of *equivalence* to the BB.
 - c. At a minimum, the erosion and sediment control component of the *SWPPP* must include the following:
 - i. Background information about the scope of the project, including the location, type and size of project; and
 - ii. A site map/construction drawing(s) with north arrows for the project, including a general location map. At a minimum, the site map must show the total site area; all improvements; areas of disturbance; areas that will not be disturbed; existing vegetation; on-site and adjacent off-site surface water(s); floodplain/floodway boundaries; wetlands and drainage patterns that could be affected by the *construction activity*; existing and final contours; locations of different soil types with boundaries; material, waste, borrow or equipment storage areas located on adjacent properties; and location(s) of the *stormwater discharge(s)* and receiving surface water(s); and
 - iii. A description of the soil(s) present at the site, including an identification of the Hydrologic Soil Group (HSG); and
 - iv. A phasing plan for the project and sequencing plans for all *phases*, both of which must address clearing and grubbing, excavation and grading, utility and infrastructure installation, *final stabilization*,

and any other *construction activity* at the site that will result in soil disturbance.

1. The phasing plan must include:

- a. a map delineating and labeling the limits of soil disturbance for all *phases* of a project; and
- b. a table identifying the order and intended schedule of when each *phase* will begin and end its sequencing plan. The table must identify the total disturbed area for each *phase* at any one time and the total disturbed area for the overall project at any one time all on one timeline showing all overlapping quantities of disturbed area at any one time; and

2. A sequencing plan for a specific *phase* must include:

- a. a table indicating the order and intended schedule of *construction activities* within a *phase*, and corresponding construction drawings with a description of the work to be performed; and
- b. all permanent and *temporary stabilization* measures; and

v. A description of the minimum erosion and sediment control practices to be installed or implemented for each *construction activity* that will result in soil disturbance. Include a schedule that identifies the timing of initial placement or implementation of each erosion and sediment control practice and the minimum time frames that each practice should remain in place or be implemented; and

vii. A site map/construction drawing(s) showing the specific location(s), size(s), and length(s) of each erosion and sediment control practice; and

viii. The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices. Include the location and sizing of any

temporary sediment basins and structural practices that will be used to divert flows from exposed soils; and

viii. A maintenance inspection schedule for the contractor(s) and subcontractor(s) identified in Part III.A.7. to ensure continuous and effective operation of the erosion and sediment control practices. The maintenance inspection schedule must be in accordance with the requirements in the BB technical standard; and

ix. A description of the pollution prevention measures that will be used to control litter, construction chemicals and construction debris from becoming a *pollutant* source in the *stormwater discharges*; and

x. A description and location of any *stormwater discharges* associated with industrial activity other than construction at the site, including, but not limited to, *stormwater discharges* from asphalt plants and concrete plants located on the *construction site*; and

xi. Identification of any elements of the design that are not in conformance with the design criteria in the BB technical standard. Include the reason for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

2. SMP component – The *owner or operator of construction activity* identified in Table 2 of Appendix B must prepare a *SWPPP* that includes SMPs.

a. SMPs must be designed in conformance with the applicable *sizing criteria* in Part II.C.2.a., c., or d.; and

b. SMPs must be designed in conformance with the *performance criteria*:

- i. in the DM; or
- ii. *equivalent* to the DM if deviating from Part III.B.2.b.i.; or
- iii. in the New York State Stormwater Management Design Manual, dated January 2015 (2015 Design Manual), or *equivalent* to it, if the following criteria are met:

Part III.B.2.b.iii.1.

1. The eNOI is submitted in accordance with Part I.D. before January 29, 2027 for *construction activities* that are either:

- a. subject to governmental review and approval:
 - i. where the *owner or operator* made any application to that governmental entity prior to the effective date of this permit; and
 - ii. such application included a *SWPPP* developed using the 2015 Design Manual or *equivalent* to it; or
- b. not subject to governmental review and approval:
 - i. where a fiscal allocation for the *construction activities* has been developed and approved by a governmental entity; and
 - ii. the *SWPPP* was developed using the 2015 Design Manual or *equivalent* to it; and
- c. If SMPs are designed in conformance with Part III.B.2.b.ii., the *SWPPP* must include the reason(s) for the deviation or alternative design and a demonstration of *equivalence* to the DM; and
- d. If SMPs are designed in conformance with Part III.B.2.b.iii., the *SWPPP* must include supporting information or documentation demonstrating that Part III.B.2.b.iii.1.a. or b. apply; and
- e. The SMP component of the *SWPPP* must include the following:
 - i. Identification of all SMPs to be constructed as part of the project, including which option the SMP designs conform to, either Part III.B.2.b.i., ii., or iii. Include the dimensions, material specifications and installation details for each SMP; and
 - ii. A site map/construction drawing(s) showing the specific location and size of each SMP; and

Part III.B.2.e.iii.

iii. A Stormwater Modeling and Analysis Report that includes:

- (i) Map(s) showing pre-development conditions, including watershed/subcatchments boundaries, flow paths/routing, and design points; and
 - (ii) Map(s) showing post-development conditions, including watershed/subcatchments boundaries, flow paths/routing, design points and SMPs; and
 - (iii) Results of *stormwater* modeling (i.e. hydrology and hydraulic analysis) for the required storm events. Include supporting calculations (model runs), methodology, and a summary table that compares pre- and post-development runoff rates and volumes for the different storm events; and
 - (iv) Summary table, with supporting calculations, which demonstrates that each SMP has been designed in conformance with the *sizing criteria* included in the DM; and
 - (v) Identification of any *sizing criteria* that is not required based on the requirements included in Part II.C.; and
 - (vi) Identification of any elements of the design that are not in conformance with the *performance criteria* in the DM. Include the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the DM.
- iv. Soil testing results and locations (test pits, borings); and
 - v. Infiltration test results, when required in accordance with Part III.B.2.a.; and
 - vi. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each SMP. The plan must identify the entity

that will be responsible for the long-term operation and maintenance of each practice; and

3. Enhanced Phosphorus Removal Standards - The owner or operator of construction activity identified in Table 2 of Appendix B that is located in a watershed identified in Appendix C must prepare a SWPPP that includes SMPs designed in conformance with the applicable sizing criteria in Part II.C.2.b., c., or d. and the performance criteria Enhanced Phosphorus Removal Standards included in the DM. At a minimum, the SMP component of the SWPPP must meet the requirements of Part III.B.2.

C. Required SWPPP Components by Project Type

Owners or operators of construction activities, identified in Table 1 of Appendix B, are required to prepare a SWPPP that only includes erosion and sediment control practices designed in accordance with Part III.B.1. Owners or operators of the construction activities, identified in Table 2 of Appendix B, must prepare a SWPPP that also includes SMPs designed in accordance with Part III.B.2 or 3.

For the entire area of disturbance, including the entire common plan of development or sale if applicable, the owner or operator must evaluate every bullet from Appendix B Table 1 and Table 2 separately. If bullets from both Table 1 and Table 2 apply, the SWPPP must include erosion and sediment control practices for all construction activities but SMPs for only those portions of the construction activities that fall under Table 2 bullet(s).

Part IV. Inspection and Maintenance Requirements

A. General Construction Site Inspection and Maintenance Requirements

1. The owner or operator must ensure that all erosion and sediment control practices (including pollution prevention measures), and all SMPs identified in the SWPPP, are inspected and maintained in accordance with Part IV.B. and C.

B. Contractor Maintenance Inspection Requirements

1. The owner or operator of each construction activity, identified in Tables 1 and 2 of Appendix B, must have a trained contractor inspect the erosion and sediment control practices and pollution prevention measures being

implemented within the active work area daily to ensure that they are being maintained in effective operating condition at all times. If deficiencies are identified, the contractor must:

- a. if the corrective action does not require engineering design:
 - i. begin implementing corrective actions within one business day; and
 - ii. complete the corrective actions within five business days; or
- b. if the corrective action requires engineering design:
 - i. begin the engineering design process within five business days; and
 - ii. complete the corrective action in a reasonable time frame but no later than within 60 calendar days.

2. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and temporary stabilization measures have been applied to all disturbed areas, the trained contractor can stop conducting the maintenance inspections in accordance with Part IV.B.1. The trained contractor must begin conducting the maintenance inspections in accordance with Part IV.B.1. as soon as soil disturbance activities resume.

3. For construction sites where soil disturbance activities have been shut down with partial project completion, the trained contractor can stop conducting the maintenance inspections in accordance with Part IV.B.1. if all areas disturbed as of the project shutdown date have achieved final stabilization and all SMPs required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational.

C. Qualified Inspector Inspection Requirements

1. With the exception of the following construction activities identified in Tables 1 and 2 of Appendix B, a qualified inspector must conduct site inspections for all other construction activities identified in Tables 1 and 2 of Appendix B:
 - a. the construction of a single-family residential subdivision with 25% or less impervious cover at total site build-out that involves a soil disturbance of one (1) or more acres of land but less than or equal to five (5) acres and is

Part IV.C.1.a.

not located in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix D; and

- b. the construction of a single-family home that involves soil disturbances of one (1) or more acres but less than or equal to five (5) acres and is not located in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix D; and
- c. construction on *agricultural property* that involves soil disturbances of one (1) or more acres but less than five (5) acres; and
- d. *construction activities* located in the New York City Watershed located east of the Hudson River, see Appendix C Figure 1, that involve soil disturbances of 5,000 square feet or more, but less than one acre.

2. The *qualified inspector* must conduct site inspections in accordance with the following timetable:

- a. For *construction sites* where soil disturbance activities are on-going, the *qualified inspector* must conduct a site inspection at least once every seven (7) calendar days; or
- b. For *construction sites* where soil disturbance activities are on-going and the *owner or operator* has received authorization in accordance with Part I.E.6, to disturb greater than five (5) acres of soil at any one time, the *qualified inspector* must conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections must be separated by a minimum of two (2) full calendar days; or
- c. For *construction sites* where soil disturbance activities have been temporarily suspended (e.g., winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *qualified inspector* must conduct a site inspection at least once every thirty (30) calendar days. The *owner or operator* must notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix E) or, in areas under the jurisdiction of a *Traditional Land Use Control MS4 Operator*, the *Traditional Land Use Control MS4 Operator* (provided the *Traditional Land Use Control MS4 Operator* is not the *owner or operator of the construction activity*) by hard copy or email prior to reducing the inspections to this frequency and again by hard copy or email prior to re-commencing construction; or

Part IV.C.2.d.

- d. For *construction sites* where soil disturbance activities have been shut down with partial project completion, the requirement to have the *qualified inspector* conduct inspections ceases if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all SMPs required for the completed portion of the project have been constructed in conformance with the *SWPPP* and are operational. The *owner or operator* must notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix E) or, in areas subject to the review authority of *Traditional Land Use Control MS4 Operator(s)* in accordance with Part I.D.2.b.ii.1., the *Traditional Land Use Control MS4 Operator(s)* (provided the *Traditional Land Use Control MS4 Operator(s)* are not the *owners or operators of the construction activity*) in writing prior to the shutdown and again in writing prior to resuming *construction activity*. If soil disturbance activities are not resumed within 2 years from the date of shutdown, the *owner or operator* must terminate coverage by meeting the requirements of Part V; or

- e. For *construction sites* involving soil disturbance of one (1) or more acres that *directly discharge* to one of the 303(d) segments listed in Appendix D or is located in one of the watersheds listed in Appendix C, the *qualified inspector* must conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections must be separated by a minimum of two (2) full calendar days.

3. At a minimum, the *qualified inspector* must inspect:

- a. all erosion and sediment control practices and pollution prevention measures to ensure integrity and effectiveness; and
- b. all SMPs under construction to ensure that they are constructed in conformance with the *SWPPP*; and
- c. all areas of disturbance that have not achieved *final stabilization*; and
- d. all points of *discharge* to *surface waters of the State* located within, or immediately adjacent to, the property boundaries of the *construction site*; and
- e. all points of *discharge* from the *construction site*.

Part IV.C.4.

4. The *qualified inspector* must prepare an inspection report subsequent to each and every inspection. At a minimum, the inspection report must include and/or address all of the following, for all *construction activities* except those listed in Part IV.C.1.:

- a. Permit identification number; and
- b. Date and time of inspection; and
- c. Name and title of person(s) performing inspection; and
- d. A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of the inspection, including the temperature at the time of the inspection; and
- e. A description of the condition of the runoff at all points of *discharge* from the *construction site*. This must include identification of any *discharges* of sediment from the *construction site*. Include *discharges* from conveyance systems (i.e. pipes, culverts, ditches, etc.) and overland flow; and
- f. A description of the condition of all *surface waters of the State* located within, or immediately adjacent to, the property boundaries of the *construction site* which receive runoff from disturbed areas. This must include identification of any *discharges* of sediment to the *surface waters of the State*; and
- g. Identification of all erosion and sediment control practices and pollution prevention measures that need repair or maintenance; and
- h. Identification of all erosion and sediment control practices and pollution prevention measures that were not installed properly or are not functioning as designed and need to be reinstalled or replaced; and
- i. Description and sketch (map) of areas with active soil disturbance activity, areas that have been disturbed but are inactive at the time of the inspection, and areas that have been stabilized (temporary and/or final) since the last inspection; and
- j. Estimates, in square feet or acres, of the following areas:

Part IV.C.4.j.i.

- i. Total area with active soil disturbance (not requiring either *temporary stabilization* or *final stabilization*); and
 - ii. Total area with inactive soil disturbance (requiring either *temporary stabilization* or *final stabilization*); and
 - iii. Total area that has achieved *temporary stabilization*; and
 - iv. Total area that has achieved *final stabilization*; and
 - k. Current stage of construction of all SMPs and identification of all *construction activity* on site that is not in conformance with the *SWPPP* and technical standards; and
 - l. Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices and pollution prevention measures; and to correct deficiencies identified with the construction of the SMP(s); and
 - m. Identification and status of all corrective actions that were required by previous inspection; and
 - n. Digital photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing corrective actions. The *qualified inspector* must attach color copies of the digital photographs to the inspection report being maintained onsite within seven (7) calendar days of the date of the inspection. The *qualified inspector* must also take digital photographs, with date stamp, that clearly show the condition of the practice(s) after the corrective action has been completed. The *qualified inspector* must attach paper color copies of the digital photographs to the inspection report that documents the completion of the corrective action work within seven (7) calendar days of that inspection.
5. Within one business day of the completion of an inspection, the *qualified inspector* must notify the *owner or operator*, and appropriate contractor or subcontractor identified in Part III.A.7., of any corrective actions that need to be taken. The contractor or subcontractor must:
- a. if the corrective action does not require engineering design:

Part IV.C.5.a.i.

- i. begin implementing corrective actions within one business day; and
 - ii. complete the corrective actions within five business days; or
- b. if the corrective action requires engineering design:
- i. begin the engineering design process within five business days; and
 - ii. complete the corrective action in a reasonable time frame but no later than within 60 calendar days.

6. All inspection reports must be signed by the *qualified inspector*. In accordance with Part I.E.3., the inspection reports must be maintained on site with the *SWPPP*.

Part V. How to Terminate CGP Coverage

A. Electronic Notice of Termination (eNOT) Submittal

The eNOT contains questions to ensure requirements in Part V.A. have been met.

1. An *owner or operator* must terminate coverage when one or more of the following requirements have been met:

- a. Total project completion:
 - i. all *construction activity* identified in the *SWPPP* has been completed; and
 - ii. all areas of disturbance have achieved *final stabilization*; and
 - iii. all temporary, structural erosion and sediment control measures have been removed; and
 - iv. all SMPs have been constructed in conformance with the *SWPPP* and are operational; and
 - v. an as-built drawing has been prepared; or

Part V.A.1.b.

b. Planned shutdown with partial project completion:

- i. all soil disturbance activities have ceased; and
- ii. all areas disturbed as of the project shutdown date have achieved *final stabilization*; and
- iii. all temporary, structural erosion and sediment control measures have been removed; and
- iv. all SMPs required for the completed portion of the project have been constructed in conformance with the *SWPPP* and are operational; and
- v. an as-built drawing has been prepared; or

c. In accordance with Part I.G. Change of Owner or Operator; or

d. The *owner or operator* has obtained coverage under an alternative general SPDES permit or an individual SPDES permit.

2. For *construction activities* that require *qualified inspector* inspections in accordance with Part IV.C.1. and have met Part V.A.1.a. or b., the *owner or operator* must have the *qualified inspector* perform a final site inspection prior to submitting the eNOT. The *qualified inspector* must, by signing the "Final Stabilization" and "Post-Construction Stormwater Management Practice(s)" certification statements on the eNOT, certify that all the requirements in Part V.A.1.a. or b. have been achieved.

3. For *construction activities* that are subject to the review authority of *Traditional Land Use Control MS4 Operator(s)* in accordance with Part I.D.2.b.ii.1. and meet Part V.A.1.a. or b., the *owner or operator* must have the *Traditional Land Use Control MS4 Operator(s)* sign the "MS4 Acceptance" statement on the eNOT in accordance with the requirements in Part VII.J. A *Traditional Land Use Control MS4 Operator* official, by signing this statement, determined that it is acceptable for the *owner or operator* to submit the eNOT in accordance with the requirements of this Part. A *Traditional Land Use Control MS4 Operator* can make this determination by performing a final site inspection themselves or by accepting the *qualified inspector's* final site inspection certification(s) when required in Part V.A.2.

Part V.A.4.

4. For *construction activities* that require SMPs and meet Part V.A.1.a. or b., the *owner or operator* must, prior to submitting the eNOT, ensure one of the following:

- a. for SMP(s) that were constructed by a private entity, but will be owned, operated, and maintained by a public entity, the SMP(s) and any right-of-way(s) needed to operate and maintain such practice(s) have been deeded to the municipality in which the practice(s) is located; or
 - b. for SMP(s) that are privately owned, but will be operated and maintained by a public entity, an executed operation and maintenance agreement is in place with the municipality that will operate and maintain the SMP(s); or
 - c. for SMP(s) that are privately owned, the *owner or operator* has a mechanism in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the *owner or operator's* deed of record; or
 - d. for SMP(s) that are owned by a public or private institution (e.g. school, university, hospital), government agency or authority, or public utility, the *owner or operator* has policies and procedures in place that ensure operation and maintenance of the practices in accordance with the operation and maintenance plan.
5. An *owner or operator* that has met the requirements of Part V.A.1., 2., 3., and 4, must request termination of coverage under this permit by submitting a complete Notice of Termination form electronically using a NYSDEC approved form.⁵
- a. The owner's or operator's coverage is terminated as of the termination date indicated in the Letter of Termination (LOT), which is sent by NYSDEC after a complete eNOT is submitted.

⁵ Unless NYSDEC grants a waiver in accordance with 40 CFR 127.15(c) or (d). All waiver requests must be submitted to Stormwater_Info@dec.ny.gov or NYSDEC, Bureau of Water Permits, 625 Broadway, 4th Floor, Albany, New York 12233-3505.

Part VI.

Part VI. Record Retention and Reporting

A. Record Retention

The *owner or operator* must retain a copy of the documents listed in Part I.E.3. and a copy of the LOT for a period of at least five years from the date that NYSDEC accepts a complete NOT submitted in accordance with Part V.

B. Reporting

Except for the eNOI, the signature forms associated with the eNOI, and the eNOT, all other written correspondence requested by NYSDEC, including individual permit applications, must be sent to the address of the appropriate DOW (SPDES) Program contact at the Regional Office listed in Appendix E.

Part VII. Standard Permit Requirements

For the purposes of this permit, examples of contractors and subcontractors include: third-party maintenance and construction contractors.

A. Duty to Comply

The *owner or operator*, and all contractors or subcontractors, must comply with all requirements of this permit. Any non-compliance with the requirements of this permit constitutes a violation of the New York State Environmental Conservation Law (ECL), and its implementing regulations, and is grounds for enforcement action. Filing of a request for termination of coverage under this permit, or a notification of planned changes or anticipated non-compliance, does not limit, diminish or stay compliance with any requirements of this permit.

B. Need to Halt or Reduce Activity Not a Defense

The necessity to halt or reduce the *construction activity* regulated by this permit, in order to maintain compliance with the requirements of this permit, must not be a defense in an enforcement action.

C. Penalties

There are substantial criminal, civil, and administrative penalties associated with violating the requirements of this permit. Fines of up to \$37,500 per day for each

Part VII.C.
violation and imprisonment for up to 15 years may be assessed depending upon the nature and degree of the offense.

D. False Statements

Any person who knowingly makes any false material statement, representation, or certification in any application, record, report, or other document filed or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance must, upon conviction, be punished in accordance with ECL §71-1933 and or New York State Penal Law Articles 175 and 210.

E. Re-Opener Clause

Upon issuance of this permit, a determination has been made on the basis of a submitted Notice of Intent, plans, or other available information, that compliance with the specified permit requirements will reasonably protect classified water use and assure compliance with applicable *water quality standards*. Satisfaction of the requirements of this permit notwithstanding, if operation pursuant to this permit causes or contributes to a condition in contravention of State *water quality standards* or guidance values, or if NYSDEC determines that a modification is necessary to prevent impairment of the best use of the waters or to assure maintenance of *water quality standards* or compliance with other provisions of ECL Article 17 or the Clean Water Act (CWA), or any regulations adopted pursuant thereto, NYSDEC may require such modification and the Commissioner may require abatement action to be taken by the owner or operator and may also prohibit such operation until the modification has been implemented.

F. Duty to Mitigate

The owner or operator, and its contractors and subcontractors, must take all reasonable steps to *minimize* or prevent any *discharge* in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

G. Requiring Another General Permit or Individual SPDES Permit

NYSDEC may require any owner or operator authorized to *discharge* in accordance with this permit to apply for and obtain an individual SPDES permit or apply for authorization to *discharge* in accordance with another general SPDES permit.

1. Cases where an individual SPDES permit or authorization to discharge in accordance with another general SPDES permit may be required include, but is not limited to the following:

Part VII.G.1.a.

- a. the owner or operator is not in compliance with the conditions of this permit or does not meet the requirements for coverage under this permit; and
 - b. a change has occurred in the availability of demonstrated technology or practices for the control or abatement of *pollutants* applicable to the *point source*; and
 - c. new effluent limitation guidelines or new source performance standards are promulgated that are applicable to *point sources* authorized to *discharge* in accordance with this permit; and
 - d. existing effluent limitation guidelines or new source performance standards that are applicable to *point sources* authorized to *discharge* in accordance with this permit are modified; and
 - e. a water quality management plan containing requirements applicable to such *point sources* is approved by NYSDEC; and
 - f. circumstances have changed since the time of the request to be covered so that the owner or operator is no longer appropriately controlled under this permit, or either a temporary or permanent reduction or elimination of the authorized *discharge* is necessary; and
 - g. the *discharge* is in violation of section 17-0501 of the ECL; and
 - h. the *discharge(s)* is a significant contributor of *pollutants*. In making this determination, NYSDEC may consider the following factors:
 - i. the location of the *discharge(s)* with respect to *surface waters of the State*; and
 - ii. the size of the *discharge(s)*; and
 - iii. the quantity and nature of the *pollutants discharged to surface waters of the State*; and
 - iv. other relevant factors including compliance with other provisions of ECL Article 17, or the CWA.
2. When NYSDEC requires any owner or operator authorized by this permit to apply for an individual SPDES permit as provided for in this subdivision, it must notify the owner or operator in writing that a permit application is required. This notice must include a brief statement of the reasons for this decision, an application

form, a statement setting a time for the *owner or operator* to file the application for an individual SPDES permit, and a deadline, not sooner than 180 days from the *owner's or operator's* receipt of the notification letter, whereby the authorization to *discharge* under this permit must be terminated. NYSDEC may grant additional time upon demonstration, to the satisfaction of the RWE,⁶ that additional time to apply for an alternative authorization is necessary or where NYSDEC has not provided a permit determination in accordance with 6 NYCRR Part 621.

3. When an individual SPDES permit is issued to an *owner or operator* authorized to *discharge* under this permit for the same *discharge(s)*, this permit authorization for *construction activities* authorized under the individual SPDES permit is automatically terminated on the effective date of the individual SPDES permit unless termination is earlier in accordance with 6 NYCRR Part 750.

H. Duty to Provide Information

The *owner or operator* must furnish to NYSDEC, within five business days, unless otherwise set forth by NYSDEC, any information that NYSDEC may request to determine whether cause exists to determine compliance with this permit or to determine whether cause exists for requiring an individual SPDES permit in accordance with 6 NYCRR 750-1.21(e) (see Part VII.G. Requiring Another General Permit or Individual Permit).

The *owner or operator* must make available to NYSDEC, for inspection and copying, or furnish to NYSDEC within 25 business days of receipt of a NYSDEC request for such information, any information retained in accordance with this permit.

Except for Part I.D.4. and 5. and Part I.G., the following applies: where the *owner or operator* becomes aware that it failed to submit any relevant facts on the Notice of Intent, or submitted incorrect information in a Notice of Intent or in any report to NYSDEC, the *owner or operator* must submit such facts or corrected information to NYSDEC within five business days.

I. Extension

In the event a new permit is not issued and effective prior to the expiration of this permit, and this permit is extended pursuant to the State Administrative Procedure Act and 6 NYCRR Part 621, then the *owner or operator* with coverage under this permit may continue to operate and *discharge* in accordance with the requirements of this permit until a new permit is issued and effective.

⁶ The Regional Water Manager where a DEC Region does not have a RWE.

J. Signatories and Certification

The Notice of Intent, Notice of Termination, and reports required by this permit must be signed as provided in 40 CFR §122.22.

1. All Notices of Intent and Notices of Termination must be signed as follows:
 - a. For a corporation. By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
 - (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or
 - (ii) the manager of one or more manufacturing, production or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for Notice of Intent or Notice of Termination requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

Note: NYSDEC does not require specific assignments or delegations of authority to responsible corporate officers identified in 40 CFR §122.22(a)(1)(i). NYSDEC will presume that these responsible corporate officers have the requisite authority to sign the Notice of Intent or Notice of Termination unless the corporation has notified NYSDEC to the contrary. Corporate procedures governing authority to sign a Notice of Intent or Notice of Termination may provide for assignment or delegation to applicable corporate positions under 40 CFR §122.22(a)(1)(ii) rather than to specific individuals.

- b. For a partnership or sole proprietorship. By a general partner or the proprietor, respectively.

Part VII.J.1.c.

- c. For a municipality, State, Federal, or other public agency. By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:

1. the chief executive officer of the agency; or
2. a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

2. All reports required by this permit, and other information requested by NYSDEC, must be signed by a person described in Part VII.J.1., or by a duly authorized representative of that person. A person is a duly authorized representative only if:

- a. The authorization is made in writing by a person described in Part VII.J.1. or using the Duly Authorized Form, found on the DEC website; and
- b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and
- c. The written authorization is submitted to NYSDEC.

3. Changes to authorization. If an authorization under Part VII.J.2. is no longer accurate because a different individual or position has responsibility for the overall operation of the construction activity, a new authorization satisfying the requirements of Part VII.J.2. must be submitted to NYSDEC prior to or together with any reports, information, or applications to be signed by an authorized representative.

4. Certification. Any person signing a document under Part VII.J.1. or 2. must make the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who

Part VII.J.4.

manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

5. Electronic reporting. If documents described in Part VII.J.1. or 2. are submitted electronically by or on behalf of the construction activity with coverage under this permit, any person providing the electronic signature for such documents must meet all relevant requirements of this section, and must ensure that all of the relevant requirements of 40 CFR Part 3 (including, in all cases, subpart D to Part 3) (Cross-Media Electronic Reporting) and 40 CFR Part 127 (NPDES Electronic Reporting Requirements) are met for that submission.

K. Inspection and Entry

The owner or operator must allow NYSDEC, the USEPA Regional Administrator, the applicable county health department, or any authorized representatives of those entities, or, in the case of a construction site which discharges through an MS4, an authorized representative of the MS4 receiving the discharge, upon the presentation of credentials and other documents as may be required by law, to:

1. enter upon the owner's or operator's premises where a regulated facility or activity is located or conducted or where records must be kept under the requirements of this permit; and
2. have access to and copy at reasonable times, any records that must be kept under the requirements of this permit, including records required to be maintained for purposes of operation and maintenance; and
3. inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and
4. sample or monitor at reasonable times, for the purposes of assuring general SPDES permit compliance or as otherwise authorized by the CWA or ECL, any substances or parameters at any location; and
5. enter upon the property of any contributor to the regulated facility or activity under authority of the owner or operator.

L. Confidentiality of Information

The following must not be held confidential: this permit, the fact sheet for this permit, the name and address of any *owner or operator*, effluent data, the Notice of Intent, and information regarding the need to obtain an individual permit or an alternative general SPDES permit. This includes information submitted on forms themselves and any attachments used to supply information required by the forms (except information submitted on usage of substances). Upon the request of the *owner or operator*, NYSDEC must make determinations of confidentiality in accordance with 6 NYCRR Part 616, except as set forth in the previous sentence. Any information accorded confidential status must be disclosed to the Regional Administrator upon his or her written request. Prior to disclosing such information to the Regional Administrator, NYSDEC will notify the Regional Administrator of the confidential status of such information.

M. Other Permits May Be Required

Nothing in this permit relieves the *owner or operator* from a requirement to obtain any other permits required by law.

N. NYSDEC Orders or Civil Decrees/Judgments

The issuance of this permit by the NYSDEC, and the coverage under this permit by the *owner or operator*, does not supersede, revoke, or rescind any existing order on consent or civil Decree/Judgment, or modification to any such documents or to any order issued by the Commissioner, or any of the terms, conditions, or requirements contained in such order or modification therefore, unless expressly noted.

O. Property Rights

Coverage under this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations, nor does it obviate the necessity of obtaining the assent of any other jurisdiction as required by law for the *discharge* authorized.

P. Compliance with Interstate Standards

If the *construction activity* covered by this permit originates within the jurisdiction of an interstate water pollution control agency, then the *construction activity* must also comply with any applicable effluent standards or *water quality standards* promulgated by that interstate agency and as set forth in this permit for such *construction activities*.

Q. Oil and Hazardous Substance Liability

Coverage under this permit does not affect the imposition of responsibilities upon, or the institution of any legal action against, the *owner or operator* under section 311 of the CWA, which must be in conformance with regulations promulgated pursuant to section 311 governing the applicability of section 311 of the CWA to *discharges* from facilities with NPDES permits, nor must such issuance preclude the institution of any legal action or relieve the *owner or operator* from any responsibilities, liabilities, or penalties to which the *owner or operator* is or may be subject pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. section 9601 et seq. (CERCLA).

R. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, must not be affected thereby.

S. NYSDEC Approved Forms

The *owner or operator* must provide all relevant information that is requested by NYSDEC, and required by this permit, on all NYSDEC approved forms.

APPENDIX A – Abbreviations and Definitions

Abbreviations

APO – Agency Preservation Officer
 BB – New York State Standards and Specifications for Erosion and Sediment Control (Blue Book), dated November 2016
 BMP – Best Management Practice
 CPESC – Certified Professional in Erosion and Sediment Control
 CPv – Channel Protection Volume
 CWA – Clean Water Act (or the Federal Water Pollution Control Act, 33 U.S.C. §1251 et seq.)
 DM – New York State Stormwater Management Design Manual (Design Manual), dated July 31, 2024
 DOW – Division of Water
 EAF – Environmental Assessment Form
 ECL – chapter 43-B of the Consolidated Laws of the State of New York, entitled the Environmental Conservation Law
 EPA – U.S. Environmental Protection Agency
 HSG – Hydrologic Soil Group
 MS4 – Municipal Separate Storm Sewer System
 NOI – Notice of Intent
 NOT – Notice of Termination
 NPDES – National Pollutant Discharge Elimination System
 NYC – The City of New York
 NYCDEP – The City of New York Department of Environmental Protection
 NYSDEC – The New York State Department of Environmental Conservation
 OPRHP – Office of Parks, Recreation and Historic Places
 Qf – Extreme Flood
 Qp – Overbank Flood
 RR – Runoff Reduction
 RRv – Runoff Reduction Volume
 RWE – Regional Water Engineer
 SEQOR – State Environmental Quality Review Act
 SHPA – State Historic Preservation Act
 SMP – Post-Construction Stormwater Management Practice
 SPDES – State Pollutant Discharge Elimination System
 SWPPP – Stormwater Pollution Prevention Plan
 TMDL – Total Maximum Daily Load
 UPA – Uniform Procedures Act
 USDA – United States Department of Agriculture
 WQv – Water Quality Volume

Definitions

All definitions in this section are solely for the purposes of this permit. If a word is not italicized in the permit, use its common definition.

Agricultural Building – a structure designed and constructed to house farm implements, hay, grain, poultry, livestock or other horticultural products; excluding any structure designed, constructed or used, in whole or in part, for human habitation, as a place of employment where agricultural products are processed, treated or packaged, or as a place used by the public.

Agricultural Property – the land for construction of a barn, *agricultural building*, silo, stockyard, pen or other structural practices identified in Table II in the “Agricultural Best Management Practice Systems Catalogue” (dated June 2023).

Alter Hydrology from Pre- to Post-Development Conditions – the post-development peak flow rate(s) has increased by more than 5% of the pre-developed condition for the design storm of interest (e.g. 10 yr and 100 yr).

Combined Sewer System – a sewer system which conveys sewage and *stormwater* through a single pipe system to a publicly owned treatment works.

Commence (Commencement of) Construction Activities – the initial disturbance of soils associated with clearing, grading or excavation activities; or other construction related activities that disturb or expose soils such as demolition, stockpiling of fill material, and the initial installation of erosion and sediment control practices required in the SWPPP. See definition for “*Construction Activity(ies)*” also.

Common Plan of Development or Sale – a contiguous area where multiple separate and distinct *construction activities* are occurring, or may occur, under one plan. The “common plan” of development or sale is broadly defined as any announcement or piece of documentation (including a sign, public notice or hearing, marketing plan, advertisement, drawing, permit application, State Environmental Quality Review Act (SEQR) environmental assessment form or other documents, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating *construction activities* may occur on a specific plot. A *common plan of development or sale* is comprised of two or more *phases*.

Common plan of development or sale does not include separate and distinct *construction activities* that are occurring, or may occur, under one plan that are at least 1/4 mile apart provided any interconnecting road, pipeline or utility project that is part of the same “common plan” is not concurrently being disturbed.

Construction Activity(ies) – identified within 40 CFR 122.26(b)(14)(x), 122.26(b)(15)(i), and 122.26(b)(15)(ii), any clearing, grading, excavation, filling, demolition or stockpiling activities that result in soil disturbance. Clearing activities can include, but are not limited to, mechanized logging equipment operation, the cutting and skidding of trees, stump removal and/or brush root removal.

Construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility, which is excluded from the calculation of the soil disturbance for a project. Routine maintenance includes, but is not limited to:

- Re-grading of gravel roads or parking lots; and
- Cleaning and shaping of existing roadside ditches and culverts that maintains the approximate original line and grade, and maintains or improves the hydraulic capacity of the ditch; and
- Replacement of existing culverts that maintains the approximate original line and grade, and maintains or improves the hydraulic capacity of a ditch; and
- Replacement of existing bridges that maintains the approximate original line and grade, and maintains or improves the hydraulic capacity beneath the bridges; and
- Cleaning and shaping of existing roadside ditches that does not maintain the approximate original grade, hydraulic capacity and purpose of the ditch if the changes to the line and grade, hydraulic capacity or purpose of the ditch are installed to improve water quality and quantity controls (e.g., installing grass lined ditch); and
- Placement of aggregate shoulder backing that stabilizes the transition between the road shoulder and the ditch or *embankment*; and
- Full depth milling and filling of existing asphalt pavements, replacement of concrete pavement slabs, and similar work that does not expose soil or disturb the bottom six (6) inches of subbase material; and
- Long-term use of equipment storage areas at or near highway maintenance facilities; and
- Removal of sediment from the edge of the highway to restore a previously existing sheet-flow drainage connection from the highway surface to the highway ditch or *embankment*; and
- Existing use of Canal Corp owned upland disposal sites for the canal, and
- Replacement of curbs, gutters, sidewalks and guide rail posts; and
- Maintenance of ski trails including brush hog use and mowing; and
- Above ground snowmaking pipe replacement; and
- Replacement of existing utility poles; etc.

Construction Site – the land area where *construction activity(ies)* will occur. See also the definitions for “Commence (Commencement of) Construction Activities” and “Common Plan of Development or Sale.”

Dewatering – the act of draining rainwater and/or groundwater from building foundations, vaults or excavations/trenches.

Directly Discharge(s)(ing) (to a specific surface waterbody) – runoff flows from a *construction site* by overland flow and the first point of *discharge* is the specific surface waterbody, or runoff flows from a *construction site* to a separate storm sewer system and the first point of *discharge* from the separate storm sewer system is the specific surface waterbody.

Discharge(s)(d) – any addition of any *pollutant* to waters of the State through an outlet or *point source*.

Embankment – an earthen or rock slope that supports a road/highway.

Equivalent (Equivalence) – the practice or measure meets all the performance, longevity, maintenance, and safety objectives of the technical standard and will provide an equal or greater degree of water quality protection.

Final Stabilization – all soil disturbance activities have ceased and a uniform, perennial vegetative cover with a density of eighty (80) percent over the entire pervious surface has been established; or other *equivalent* stabilization measures, such as permanent landscape mulches, rock rip-rap or washed/crushed stone have been applied on all disturbed areas that are not covered by permanent structures, concrete or pavement.

Historic Property – any building, structure, site, object or district that is listed on the State or National Registers of Historic Places or is determined to be eligible for listing on the State or National Registers of Historic Places.

Impervious Area (Cover) – all impermeable surfaces that cannot effectively infiltrate rainfall. This includes paved, concrete and compacted gravel surfaces (i.e. parking lots, driveways, roads, runways and sidewalks); building rooftops and miscellaneous impermeable structures such as patios, pools, and sheds.

Infeasible – not technologically possible, or not economically practicable and achievable considering best industry practices.

Minimize(ing)(ation) – reduce and/or eliminate to the extent achievable using control measures (including best management practices) that are technologically available and economically practicable and achievable in light of best industry practices.

Municipal Separate Storm Sewer System (MS4) - a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains);

1. owned or operated by a State, city, town, village, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, *stormwater*, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA, that discharges to *surface waters of the State*; and
2. designed or used for collecting or conveying *stormwater*; and
3. which is not a *combined sewer system*; and
4. which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

Natural Buffer(s) – an undisturbed area with natural cover running along a surface water (e.g. wetland, stream, river, lake, etc.).

New Development – any land disturbance that does not meet the definition of *Redevelopment Activity* included in this appendix.

New York State Erosion and Sediment Control Certificate Program – a certificate program that establishes and maintains a process to identify and recognize individuals who are capable of developing, designing, inspecting and maintaining erosion and sediment control plans on projects that disturb soils in New York State. The certificate program is administered by the New York State Conservation District Employees Association.

Nonpoint Source(s) – any source of water pollution or *pollutants* which is not a discrete conveyance or *point source* permitted pursuant to Title 7 or 8 of Article 17 of the Environmental Conservation Law (see ECL Section 17-1403).

Overbank – flow events that exceed the capacity of the stream channel and spill out into the adjacent floodplain.

Owner or Operator – the person, persons, or legal entity which owns or leases the property on which the *construction activity* is occurring; an entity that has operational control over the construction plans and specifications, including the ability to make modifications to the plans and specifications; and/or an entity that has day-to-day operational control of those activities at a project that are necessary to ensure compliance with the permit requirements.

Performance Criteria – the six performance criteria for each group of SMPs in Chapters 5 and 6 of the technical standard, New York State Stormwater Management Design Manual (DM), dated July 31, 2024. These include feasibility, conveyance, pretreatment, treatment, landscaping, and maintenance. It does not include the *Sizing Criteria* (i.e. WQv, RRV, CPv, Qp and Qf) in Part I.C.2. of the permit.

Phase – a defined area in which *construction activities* are occurring or will occur separate from other defined area(s).

Point Source – any discernible, confined, and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, vessel or other floating craft, or landfill leachate collection system from which *pollutants* are or may be *discharged*.

Pollutant(s) – dredged spoil, filter backwash, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand and industrial, municipal, agricultural waste and ballast *discharged* into water; which may cause or might reasonably be expected to cause pollution of the waters of the state in contravention of the standards or guidance values adopted as provided in 6 NYCRR Parts 700 et seq.

Qualified Inspector – a person that is knowledgeable in the principles and practices of erosion and sediment control, such as a licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, *New York State Erosion and Sediment Control Certificate Program* holder or other NYSDEC endorsed individual(s).

It can also mean someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided that person has training in the principles and practices of erosion and sediment control. Training in the principles and practices of erosion and sediment control means that the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect has received four (4) hours of NYSDEC endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other NYSDEC endorsed entity. After receiving the initial training, the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect shall receive four (4) hours of training every three (3) years.

It can also mean a person that meets the *Qualified Professional* qualifications in addition to the *Qualified Inspector* qualifications.

Note: Inspections of any SMPs that include structural components, such as a dam for an impoundment, shall be performed by a licensed Professional Engineer.

Qualified Professional – a person that is knowledgeable in the principles and practices of *stormwater* management and treatment, such as a licensed Professional Engineer, Registered Landscape Architect or other NYSDEC endorsed individual(s). Individuals preparing *SWPPPs* that require the SMP component must have an understanding of the principles of hydrology, water quality management practice design, water quantity control design, and, in many cases, the principles of hydraulics. All components of the *SWPPP* that involve the practice of engineering, as defined by the NYS Education Law (see Article 145), shall be prepared by, or under the direct supervision of, a professional engineer licensed to practice in the State of New York.

Redevelopment Activity(ies) – the disturbance and reconstruction of existing *impervious area*, including *impervious areas* that were removed from a project site within five (5) years of preliminary project plan submission to the local government (i.e. site plan, subdivision, etc.).

Renewable Energy – electricity or thermal energy generated by renewable energy systems through use of the following technologies: solar thermal, photovoltaics, on land and offshore wind, hydroelectric, geothermal electric, geothermal ground source heat, tidal energy, wave energy, ocean thermal, and fuel cells which do not utilize a fossil fuel resource in the process of generating electricity.

Site Limitations – site conditions that prevent the use of an infiltration technique and/or infiltration of the total *WQv*. Typical *site limitations* include: seasonal high groundwater, shallow depth to bedrock, and soils with an infiltration rate less than 0.5 inches/hour. The existence of *site limitations* shall be confirmed and documented using actual field testing (i.e. test pits, soil borings, and infiltration test) or using information from the most current United States Department of Agriculture (USDA) Soil Survey for the County where the project is located.

Sizing Criteria – the criteria included in Part I.C.2 of the permit that are used to size SMPs. The criteria include; Water Quality Volume (*WQv*), Runoff Reduction Volume (*RRv*), Channel Protection Volume (*Cpv*), *Overbank Flood* (*Qp*), and *Extreme Flood* (*Qf*).

Steep Slope – land area designated on the current United States Department of Agriculture (USDA) Soil Survey as Soil Slope Phase D, (provided the map unit name or description is inclusive of slopes greater than 25%), or Soil Slope Phase E or F, (regardless of the map unit name), or a combination of the three designations.

Stormwater – that portion of precipitation that, once having fallen to the ground, is in excess of the evaporative or infiltrative capacity of soils, or the retentive capacity of surface features, which flows or will flow off the land by surface runoff to waters of the State.

Streambank – the terrain alongside the bed of a creek or stream. The bank consists of the sides of the channel, between which the flow is confined.

Stormwater Pollution Prevention Plan (SWPPP) – a project specific report, including construction drawings, that among other things: describes the *construction activity(ies)*, identifies the potential sources of pollution at the *construction site*, describes and shows the *stormwater* controls that will be used to control the *pollutants* (i.e. erosion and sediment controls; for many projects, includes SMPs); and identifies procedures the *owner or operator* will implement to comply with the requirements of the permit. See Part III of the permit for a complete description of the information that must be included in the *SWPPP*.

Surface Waters of the State – shall be construed to include lakes, bays, sounds, ponds, impounding reservoirs, springs, rivers, streams, creeks, estuaries, marshes, inlets, canals, the Atlantic ocean within the territorial seas of the state of New York and all other bodies of surface water, natural or artificial, inland or coastal, fresh or salt, public or private (except those private waters that do not combine or effect a junction with natural surface waters), which are wholly or partially within or bordering the state or within its jurisdiction. Waters of the state are further defined in 6 NYCRR Parts 800 to 941.

Temporarily Ceased – an existing disturbed area will not be disturbed again within 14 calendar days of the previous soil disturbance.

Temporary Stabilization – exposed soil has been covered with material(s) as set forth in the technical standard, New York Standards and Specifications for Erosion and Sediment Control, to prevent the exposed soil from eroding. The materials can include, but are not limited to, mulch, seed and mulch, and erosion control mats (e.g. jute twisted yarn, excelsior wood fiber mats).

Total Maximum Daily Load (TMDL) – the sum of the allowable loads of a single *pollutant* from all contributing point and *nonpoint sources*. It is a calculation of the maximum amount of a *pollutant* that a waterbody can receive and still meet *water quality standards*, and an allocation of that amount to the *pollutant's* sources. A TMDL stipulates Waste Load Allocations (WLA) for *point source discharges*, Load Allocations (LA) for *nonpoint sources*, and a margin of safety (MOS).

Traditional Land Use Control MS4 Operator – a city, town, or village with land use control authority that is authorized to *discharge* under New York State DEC's SPDES General Permit For Stormwater Discharges from Municipal Separate Stormwater Sewer Systems (MS4s) or the City of New York's Individual SPDES Permit for their Municipal Separate Storm Sewer Systems (NY-0287890).

Trained Contractor – an employee from the contracting (construction) company, identified in Part III.A.7., that has received four (4) hours of NYSDEC endorsed training

Appendix A

in proper erosion and sediment control principles from a Soil and Water Conservation District, or other NYSDC endorsed entity. After receiving the initial training, the *trained contractor* shall receive four (4) hours of training every three (3) years.

It can also mean an employee from the contracting (construction) company, identified in Part III.A.7., that meets the *qualified inspector* qualifications (e.g. licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, New York State Erosion and Sediment Control Certificate Program holder, or someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of NYSDC endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other NYSDC endorsed entity).

The *trained contractor* is responsible for the day-to-day implementation of the *SWPPP*.

Tree Clearing – construction activities limited to felling and removal of trees.

Tree clearing does not include hand felling and leaving the trees in place with no support from mechanized equipment, which is not considered *construction activity* requiring coverage under this permit.

Water Quality Standard – such measures of purity or quality for any waters in relation to their reasonable and necessary use as promulgated in 6 NYCRR Part 700 et seq.

APPENDIX B – Required SWPPP Components by Project Type

Table 1

CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT ONLY INCLUDES EROSION AND SEDIMENT CONTROLS

The following construction activities that involve soil disturbances of one (1) or more acres of land, but less than five (5) acres: • Single-family home <u>not</u> located in one of the watersheds listed in Appendix C and <u>not</u> directly discharging to one of the 303(d) segments listed in Appendix D • Single-family residential subdivisions with 25% or less <i>impervious</i> cover at total site build-out and <u>not</u> located in one of the watersheds listed in Appendix C and <u>not</u> directly discharging to one of the 303(d) segments listed in Appendix D • Construction of a barn or other <i>agricultural building</i>, silo, stock yard or pen. • Structural agricultural conservation practices as identified in Table II in the "Agricultural Best Management Practice Systems Catalogue" (dated June 2023) that include construction or reconstruction of <i>impervious area</i> <u>or</u> <i>alter hydrology from pre- to post-development</i> conditions.
The following construction activities that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land: • All construction activities located in the New York City Watershed located east of the Hudson River, see Appendix C Figure 1, that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.
Within the municipal boundaries of NYC: • Stand-alone road reconstruction, where the total soil disturbance from only that road construction, is less than one (1) acre of land.
The following construction activities: • Installation of underground linear utilities; such as gas lines, fiber-optic cable, cable TV, electric, telephone, sewer mains, and water mains • Environmental enhancement projects, such as wetland mitigation, <i>stormwater</i> retrofits, stream restoration, and resiliency projects that reconstruct shoreline areas to address sea level rise • Pond construction • Linear bike paths running through areas with vegetative cover, including bike paths surfaced with an <i>impervious cover</i> • Cross-country ski trails, walking/hiking trails, and mountain biking trails, including a de minimis parking lot (maximum 10 spaces total, sized for passenger cars) with 35 feet minimum preservation of undisturbed area downgradient from the parking lot • Dam rehabilitation (the structure of the dam itself) • Sidewalks, bike paths, or walking paths, surfaced with an <i>impervious cover</i>, that are not part of residential, commercial, or institutional development; • Sidewalks, bike paths, or walking paths, surfaced with an <i>impervious cover</i>, that include incidental shoulder or curb work along an existing highway to support construction of the sidewalk, bike path, or walking path.

Table 1 (Continued)
CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP
THAT ONLY INCLUDES EROSION AND SEDIMENT CONTROLS

The following construction activities: • Slope stabilization • Slope flattening that changes the grade of the site, but does not significantly change the runoff characteristics • Spoil areas that will be covered with vegetation • Vegetated open space (i.e. recreational parks, lawns, meadows, fields, downhill ski trails) that do not alter hydrology from pre- to post-development conditions • Athletic fields (natural grass) that do not include the construction or reconstruction of impervious area and do not alter hydrology from pre- to post-development conditions • Demolition where vegetation will be established, and no redevelopment activity is planned¹ • Installation or replacement of either an overhead electric transmission line or a ski lift tower that does not include the construction of permanent access roads or parking areas surfaced with impervious cover. • Solar array field areas that have tables elevated off the ground, spaced one table width apart, do not alter hydrology from pre- to post-development conditions, and address water quality volume and runoff reduction volume by maintaining sheet flow on slopes less than 8%. • Structural agricultural conservation practices as identified in Table II in the "Agricultural Best Management Practice Systems Catalogue" (dated June 2023) that do not include construction or reconstruction of impervious area and do not alter hydrology from pre- to post-development conditions. • Temporary access roads, median crossovers, detour roads, lanes, or other temporary impervious areas that will be restored to pre-construction conditions once the construction activity is complete (in this context, "temporary" means the impervious area will be in place for two years or less) • Other construction activities that do not include the construction or reconstruction of impervious area, and do not alter hydrology from pre- to post-development conditions, and are not listed in Table 2.	
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1. If the site is redeveloped in the future, a new eNOL must be submitted.

Table 2
CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT INCLUDES
POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES (SMPs)

The following construction activities: • Single-family home located in one of the watersheds listed in Appendix C or directly discharging to one of the 303(d) segments listed in Appendix D • Single-family home that disturbs five (5) or more acres of land • Single-family residential subdivisions located in one of the watersheds listed in Appendix C or directly discharging to one of the 303(d) segments listed in Appendix D • Single-family residential subdivisions that involve soil disturbances of between one (1) and five (5) acres of land with greater than 25% impervious cover at total site build-out • Single-family residential subdivisions that involve soil disturbances of between 20,000 square feet and one (1) acre of land within the municipal boundaries of NYC with greater than 25% impervious cover at total site build-out • Single-family residential subdivisions that involve soil disturbances of five (5) or more acres of land, and single-family residential subdivisions that involve soil disturbances of less than five (5) acres that are part of a common plan of development or sale that will ultimately disturb five (5) or more acres of land • Multi-family residential developments; includes duplexes, townhomes, condominiums, senior housing complexes, apartment complexes, and mobile home parks • Creation of 5,000 square feet or more of impervious area in the municipal boundaries of NYC • Airports • Amusement parks • Breweries, cideries, and wineries, including establishments constructed on agricultural land • Campgrounds • Cemeteries that include the construction or reconstruction of impervious area (>5% of disturbed area) or alter the hydrology from pre- to post-development conditions • Commercial developments • Churches and other places of worship • Construction of a barn or other agricultural building (e.g. silo) that involves soil disturbance greater than five acres. • Structural agricultural conservation practices as identified in Table II in the "Agricultural Best Management Practice Systems Catalogue" (dated June 2023) that involves soil disturbance greater than five acres and include the construction or reconstruction of impervious area or alter hydrology from pre- to post-development conditions. • Facility buildings, including ski lodges, restroom buildings, pumphouses, ski lift terminals, and maintenance and groomer garages • Institutional development; includes hospitals, prisons, schools and colleges • Industrial facilities; includes industrial parks • Landfills; including creation of landfills or capping landfills. • Municipal facilities; includes highway garages, transfer stations, office buildings, POTWs, water treatment plants, and water storage tanks • Golf courses • Office complexes	
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Table 2 (Continued)

CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES (SMPs)

The following construction activities:

- Permanent laydown yards and equipment storage lots
- Playgrounds that include the construction or reconstruction of *impervious area*
- Sports complexes
- Racetracks: includes racetracks with earthen (dirt) surfaces
- Road construction or reconstruction, outside the municipal boundaries of NYC
- Road construction within the municipal boundaries of NYC
- Stand-alone road reconstruction, within the municipal boundaries of NYC where the total soil disturbance from that road reconstruction involves soil disturbance of one (1) acre or more of land
- Parking lot construction or reconstruction (as with all Table 2 bullets, this includes parking lots constructed as part of the *construction activities* listed in Table 1, unless a Table 1 bullet specifies otherwise)
- Athletic fields (natural grass) that include the construction or reconstruction of *impervious area* (>5% of disturbed area) or *alter the hydrology from pre- to post-development conditions*
- Athletic fields with artificial turf
- Permanent access roads, parking areas, substations, compressor stations, and well drilling pads, surfaced with *impervious cover*, and constructed as part of an overhead electric transmission line, wind-power, cell tower, oil or gas well drilling, sewer or water main, ski lift, or other linear utility project
- Sidewalks, bike paths, or walking paths, surfaced with an *impervious cover*, that are part of a residential, commercial or institutional development
- Sidewalks, bike paths, or walking paths, surfaced with an *impervious cover*, that are part of highway construction or reconstruction
- Solar array field areas on slopes greater than 8% that cannot maintain sheet flow using management practices identified in the BB or the DM
- Solar array field areas on slopes less than 8% that will *alter the hydrology from pre- to post-development conditions*
- Solar array field areas with tables that are not elevated high enough to achieve *final stabilization* beneath the tables
- Traditional *impervious areas* associated with solar development (e.g. roads, buildings, transformers)
- Utility pads surfaced with *impervious cover*, including electric vehicle charging stations
- All other *construction activities* that include the construction or reconstruction of *impervious area* or *alter the hydrology from pre- to post-development conditions*, and are not listed in Table 1

APPENDIX C – Watersheds Requiring Enhanced Phosphorus Removal

Watersheds where owners or operators of construction activities identified in Table 2 of Appendix B must prepare a SWPPP that includes SMPs designed in conformance with the Enhanced Phosphorus Removal Standards included in the DM technical standard.

- Entire New York City Watershed located east of the Hudson River – Figure 1
- Onondaga Lake Watershed – Figure 2
- Greenwood Lake Watershed – Figure 3
- Oscawana Lake Watershed – Figure 4
- Kinderhook Lake Watershed – Figure 5

Figure 1 - New York City Watershed East of the Hudson

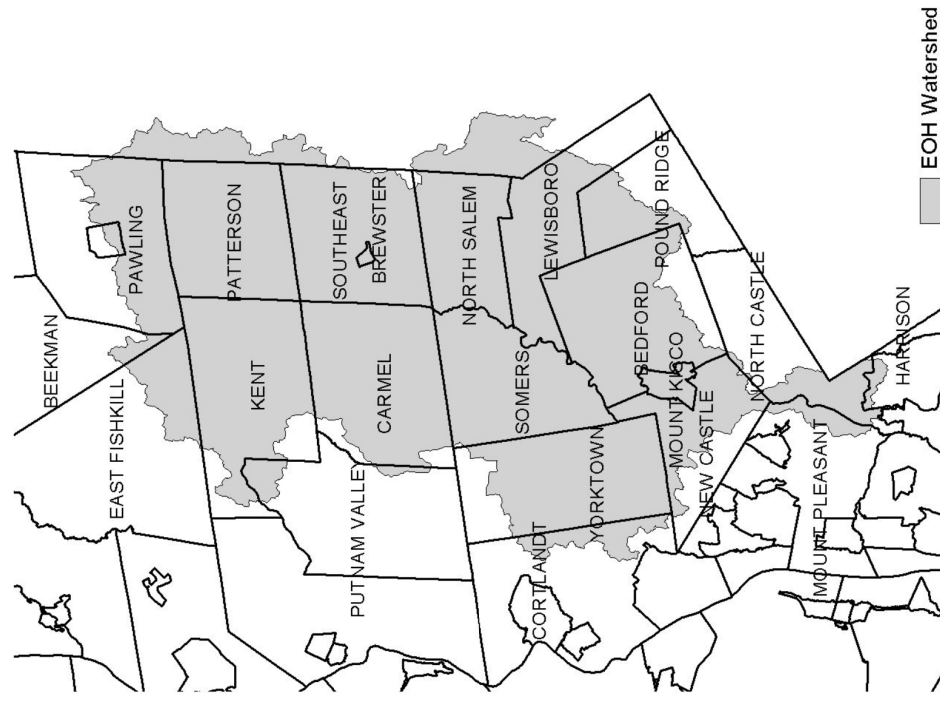


Figure 2 - Onondaga Lake Watershed

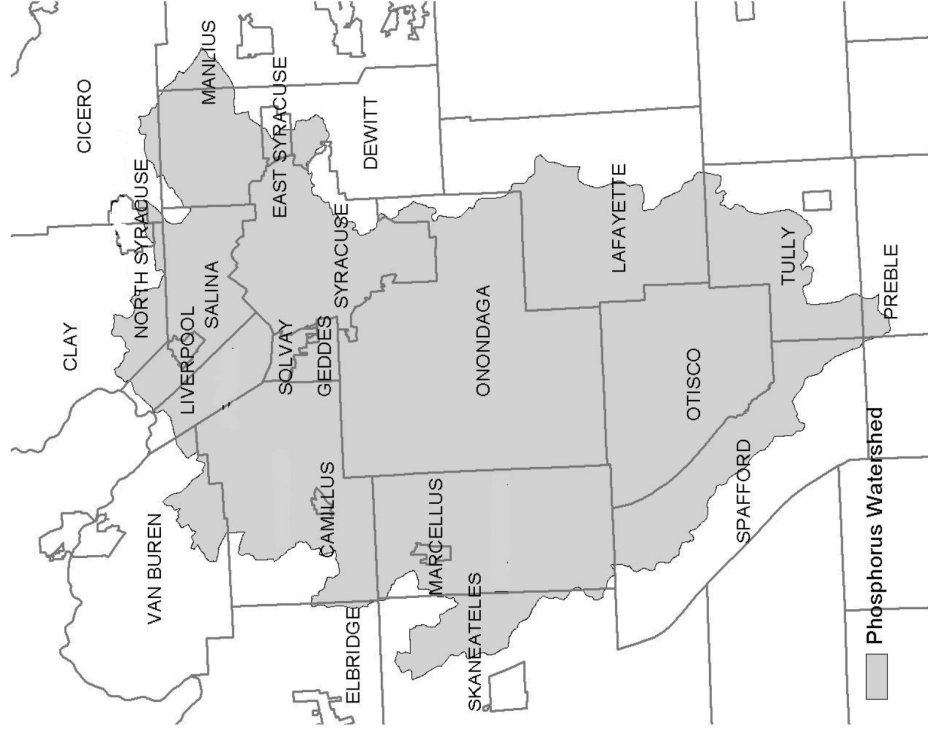


Figure 3 - Greenwood Lake Watershed

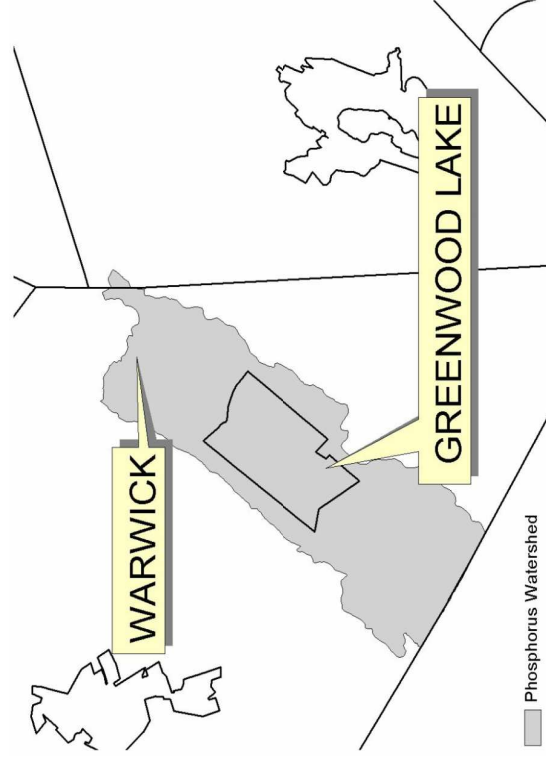


Figure 4 - Oscawana Lake Watershed

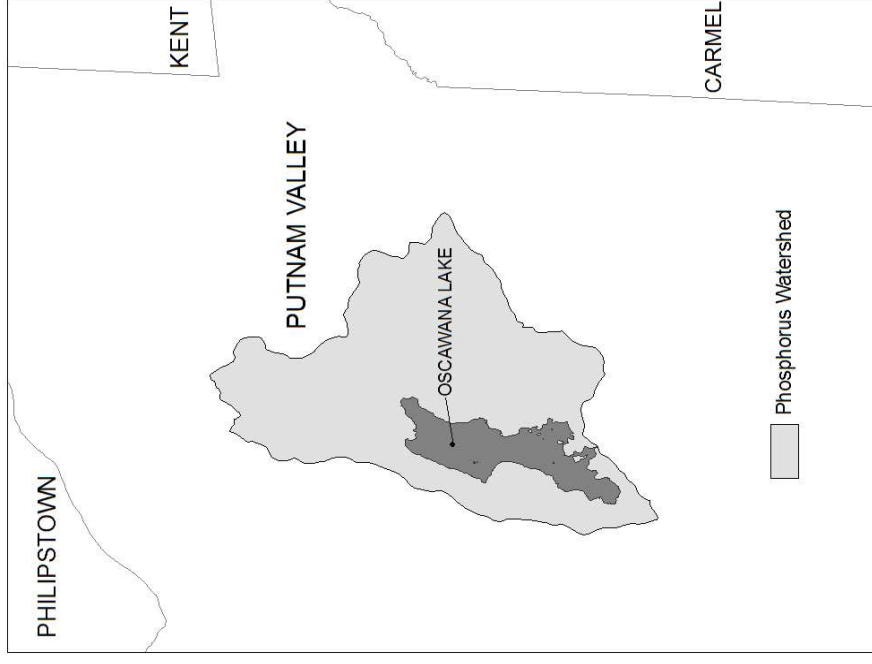
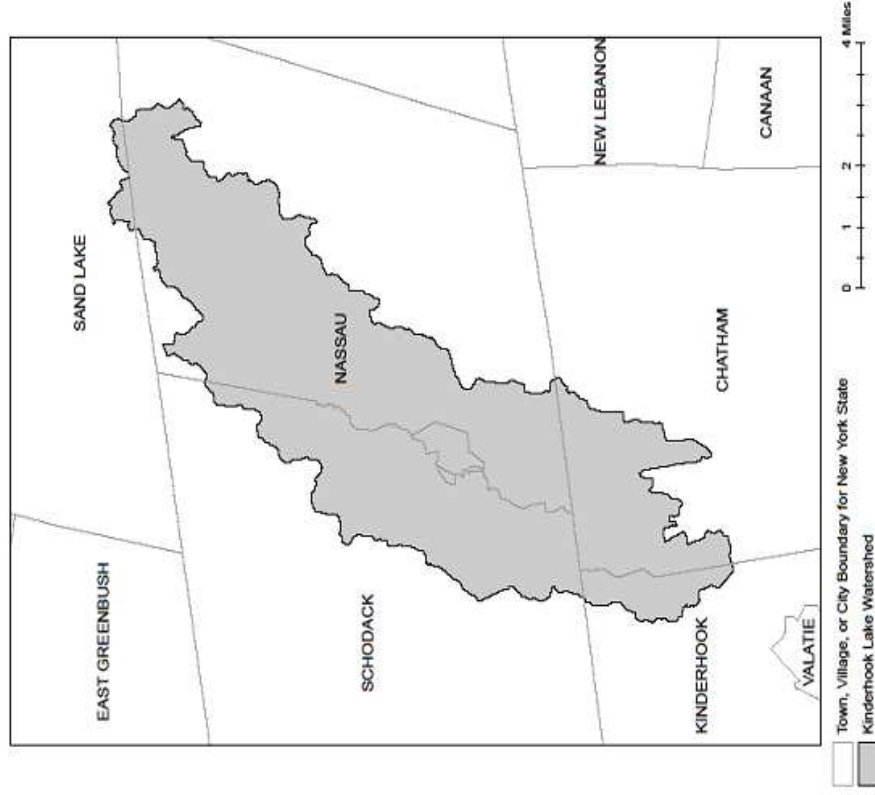


Figure 5 – Kinderhook Lake Watershed



APPENDIX D – Impaired Waterbodies (by Construction Related Pollutants)

List of waterbodies impaired by pollutants related to construction activity, including turbidity, silt/sediment, and nutrients (e.g. nitrogen, phosphorus). This list is a subset of "The Final New York State 2018 Section 303(d) List of Impaired Waters Requiring a TMDL," dated June 2020.

County	Waterbody	Pollutant
Albany	Ann Lee (Shakers) Pond, Stump Pond (1201-0096)	Phosphorus
Albany	Lawsons Lake (1301-0235)	Phosphorus
Allegany	Amity Lake, Saunders Pond (0403-0054)	Phosphorus
Allegany	Andover Pond (0403-0056)	Phosphorus
Bronx	Reservoir No.1/Lake Isle (1702-0075)	Phosphorus
Bronx	Van Cortlandt Lake (1702-0008)	Phosphorus
Broome	Blueberry, Laurel Lakes (1404-0033)	Phosphorus
Broome	Fly Pond, Deer Lake (1404-0038)	Phosphorus
Broome	Minor Tribs to Lower Susquehanna (0603-0044)	Phosphorus
Broome	Whitney Point Lake/Reservoir (0602-0004)	Phosphorus
Cattaraugus	Allegheny River/Reservoir (0201-0023)	Phosphorus
Cattaraugus	Beaver Lake/Alma Pond (0201-0073)	Phosphorus
Cattaraugus	Case Lake (0201-0020)	Phosphorus
Cattaraugus	Linlyco/Club Pond (0201-0035)	Phosphorus
Cayuga	Duck Lake (0704-0025)	Phosphorus
Cayuga	Owasco Inlet, Upper, and tribs (0706-0014)	Nutrients
Chautauqua	Chadakoin River and tribs (0202-0018)	Phosphorus
Chautauqua	Hulburt/Clymer Pond (0202-0079)	Phosphorus
Chautauqua	Middle Cassadaga Lake (0202-0002)	Phosphorus
Clinton	Great Chazy River, Lower, Main Stem (1002-0001)	Silt/Sediment
Columbia	Robinson Pond (1308-0003)	Phosphorus
Cortland	Dean Pond (0602-0077)	Phosphorus
Dutchess	Falkill Creek (1301-0087)	Phosphorus
Dutchess	Hillside Lake (1304-0001)	Phosphorus
Dutchess	Wappingers Lake (1305-0001)	Phosphorus
Dutchess	Wappingers Lake (1305-0001)	Silt/Sediment
Erie	Beeman Creek and tribs (0102-0030)	Phosphorus
Erie	Delaware Park Pond (0101-0026)	Phosphorus
Erie	Ellicott Creek, Lower, and tribs (0102-0018)	Phosphorus
Erie	Ellicott Creek, Lower, and tribs (0102-0018)	Silt/Sediment
Erie	Green Lake (0101-0038)	Phosphorus
Erie	Little Sister Creek, Lower, and tribs (0104-0045)	Phosphorus
Erie	Murder Creek, Lower, and tribs (0102-0031)	Phosphorus

Erie	Rush Creek and tribs (0104-0018)	Phosphorus
Erie	Scajaquada Creek, Lower, and tribs (0101-0023)	Phosphorus
Erie	Scajaquada Creek, Middle, and tribs (0101-0033)	Phosphorus
Erie	Scajaquada Creek, Upper, and tribs (0101-0034)	Phosphorus
Erie	South Branch Smoke Cr, Lower, and tribs (0101-0036)	Phosphorus
Erie	South Branch Smoke Cr, Lower, and tribs (0101-0036)	Silt/Sediment
Genesee	Bigelow Creek and tribs (0402-0016)	Phosphorus
Genesee	Black Creek, Middle, and minor tribs (0402-0028)	Phosphorus
Genesee	Black Creek, Upper, and minor tribs (0402-0048)	Phosphorus
Genesee	Bowen Brook and tribs (0102-0036)	Phosphorus
Genesee	LeRoy Reservoir (0402-0003)	Phosphorus
Genesee	Mill Pond (0402-0050)	Phosphorus
Genesee	Oak Orchard Cr, Upper, and tribs (0301-0014)	Phosphorus
Genesee	Oatka Creek, Middle, and minor tribs (0402-0031)	Phosphorus
Genesee	Tonawanda Cr, Middle, Main Stem (0102-0002)	Phosphorus
Greene	Schoharie Reservoir (1202-0012)	Silt/Sediment
Greene	Sleepy Hollow Lake (1301-0059)	Silt/Sediment
Herkimer	Steele Creek tribs (1201-0197)	Phosphorus
Herkimer	Steele Creek tribs (1201-0197)	Silt/Sediment
Kings	Hendrix Creek (1701-0006) 18	Nitrogen
Kings	Prospect Park Lake (1701-0196)	Phosphorus
Lewis	Mill Creek/South Branch, and tribs (0801-0200)	Nutrients
Livingston	Christie Creek and tribs (0402-0060)	Phosphorus
Livingston	Conesus Lake (0402-0004)	Phosphorus
Livingston	Mill Creek and minor tribs (0404-0011)	Silt/Sediment
Monroe	Black Creek, Lower, and minor tribs (0402-0033)	Phosphorus
Monroe	Buck Pond (0301-0017)	Phosphorus
Monroe	Cranberry Pond (0301-0016)	Phosphorus
Monroe	Durand, Eastman Lakes (0302-0037)	Phosphorus
Monroe	Lake Ontario Shoreline, Western (0301-0069) 9	Phosphorus
Monroe	Long Pond (0301-0015)	Phosphorus
Monroe	Mill Creek and tribs (0302-0025)	Phosphorus 2
Monroe	Mill Creek/Blue Pond Outlet and tribs (0402-0049)	Phosphorus
Monroe	Minor Tribs to Irondequoit Bay (0302-0038)	Phosphorus
Monroe	Rochester Embayment - East (0302-0002) [9]	Phosphorus
Monroe	Rochester Embayment - West (0301-0068) 9	Phosphorus
Monroe	Shipbuilders Creek and tribs (0302-0026)	Phosphorus 2
Monroe	Thomas Creek/White Brook and tribs (0302-0023)	Phosphorus

Nassau	Bannister Creek/Bay (1701-0380)	Nitrogen
Nassau	Beaver Lake (1702-0152)	Phosphorus
Nassau	Browsware Bay (1701-0383)	Nitrogen
Nassau	Camaans Pond (1701-0052)	Phosphorus
Nassau	East Meadow Brook, Upper, and tribs (1701-0211)	Silt/Sediment
Nassau	East Rockaway Channel (1701-0381)	Nitrogen
Nassau	Glen Cove Creek, Lower, and tribs (1702-0146)	Silt/Sediment
Nassau	Grant Park Pond (1701-0054)	Phosphorus
Nassau	Hempstead Bay, Broad Channel (1701-0032)	Nitrogen
Nassau	Hempstead Lake (1701-0015)	Phosphorus
Nassau	Hewlett Bay (1701-0382)	Nitrogen
Nassau	Hog Island Channel (1701-0220)	Nitrogen
Nassau	Massapequa Creek, Upper, and tribs (1701-0174)	Phosphorus
Nassau	Milburn/Parsonage Creeks, Upp, and tribs (1701-0212)	Phosphorus
Nassau	Reynolds Channel, East (1701-0215) [12]	Nitrogen
Nassau	Reynolds Channel, West (1701-0216) 12	Nitrogen
Nassau	Tidal Tribs to Hempstead Bay (1701-0218)	Nitrogen
Nassau	Tribs (fresh) to East Bay (1701-0204)	Silt/Sediment
Nassau	Tribs (fresh) to East Bay (1701-0204)	Phosphorus
Nassau	Tribs to Smith Pond/Halls Pond (1701-0221)	Phosphorus
Nassau	Woodmere Channel (1701-0219)	Nitrogen
New York	Harlem Meer (1702-0103)	Phosphorus
New York	The Lake in Central Park (1702-0105)	Phosphorus
Niagara	Bergholtz Creek and tribs (0101-0004)	Phosphorus
Niagara	Hyde Park Lake (0101-0030)	Phosphorus
Niagara	Lake Ontario Shoreline, Western (0301-0053) 9	Phosphorus
Niagara	Lake Ontario Shoreline, Western (0301-0072) 9	Phosphorus
Oneida	Ballou, Nail Creeks (1201-0203)	Phosphorus
Onondaga	Ley Creek and tribs (0702-0001) 10	Nutrients (phosphorus)
Onondaga	Minor Tribs to Onondaga Lake (0702-0022) 10	Nutrients (phosphorus)
Onondaga	Minor Tribs to Onondaga Lake (0702-0022) 10	Nitrogen (NH3, NO2)
Onondaga	Onondaga Creek, Lower (0702-0023) 10	Nutrients (phosphorus)
Onondaga	Onondaga Creek, Lower, and tribs (0702-0023)	Turbidity
Onondaga	Onondaga Creek, Middle, and tribs (0702-0004)	Turbidity
Onondaga	Onondaga Creek, Upper, and tribs (0702-0024)	Turbidity
Ontario	Great Brook and minor tribs (0704-0034)	Phosphorus 2
Ontario	Great Brook and minor tribs (0704-0034)	Silt/Sediment

Ontario	Hemlock Lake Outlet and minor tribs (0402-0013)	Phosphorus
Ontario	Honeoye Lake (0402-0032)	Phosphorus
Orange	Brown Pond Reservoir (1303-0013)	Phosphorus
Orange	Lake Washington (1303-0012)	Phosphorus
Orange	Minor Tribs to Middle Walkill (1306-0061)	Phosphorus
Orange	Monhagen Brook and tribs (1306-0074)	Phosphorus
Orange	Orange Lake (1301-0008) [16]	Phosphorus
Orange	Quaker Creek and tribs (1306-0025)	Phosphorus
Orange	Walkill River, Middle, Main Stem (1306-0038)	Phosphorus
Orange	Walkill River, Upper, and Minor tribs (1306-0017)	Phosphorus
Orleans	Glenwood Lake (0301-0041)	Phosphorus
Orleans	Lake Ontario Shoreline, Western (0301-0070) 9	Phosphorus
Orleans	Lake Ontario Shoreline, Western (0301-0071) 9	Phosphorus
Oswego	Lake Neatahwanta (0701-0018)	Nutrients (phosphorus)
Oswego	Pleasant Lake (0703-0047)	Phosphorus
Putnam	Lost Lake, Putnam Lake (1302-0053)	Phosphorus
Putnam	Minor Tribs to Croton Falls Reservoir (1302-0001)	Phosphorus
Queens	Bergen Basin (1701-0009) 18	Nitrogen
Queens	Jamaica Bay, Eastern, and tribs, Queens (1701-0005) 18	Nitrogen
Queens	Kissena Lake (1702-0258)	Phosphorus
Queens	Meadow Lake (1702-0030)	Phosphorus
Queens	Shellbank Basin (1701-0001) 18	Nitrogen
Queens	Willow Lake (1702-0031)	Phosphorus
Rensselaer	Nassau Lake (1310-0001)	Phosphorus
Rensselaer	Snyders Lake (1301-0043)	Phosphorus
Richmond	Grassmere Lake/Brady's Pond (1701-0357)	Phosphorus
Rockland	Congers Lake, Swartout Lake (1501-0019)	Phosphorus
Rockland	Rockland Lake (1501-0021)	Phosphorus
Saratoga	Ballston Lake (1101-0036)	Phosphorus
Saratoga	Dwaas Kill and tribs (1101-0007)	Phosphorus
Saratoga	Dwaas Kill and tribs (1101-0007)	Silt/Sediment
Saratoga	Lake Lonely (1101-0034)	Phosphorus
Saratoga	Round Lake (1101-0060)	Phosphorus
Saratoga	Tribs to Lake Lonely (1101-0001)	Phosphorus
Schenectady	Collins Lake (1201-0077)	Phosphorus
Schenectady	Duane Lake (1311-0006)	Phosphorus
Schenectady Lake	Mariaville Lake (1201-0113)	Phosphorus
Schuyler	Cayuta Lake (0603-0005)	Phosphorus

Seneca	Reeder Creek and tribs (0705-0074)	Phosphorus
St.Lawrence	Black Lake Outlet, Black Lake (0906-0001)	Phosphorus
St.Lawrence	Fish Creek and minor tribs (0906-0026)	Phosphorus
Steuben	Smith Pond (0502-0012)	Phosphorus
Suffolk	Agawam Lake (1701-0117)	Phosphorus
Suffolk	Big/Little Fresh Ponds (1701-0125)	Phosphorus
Suffolk	Canaan Lake (1701-0018)	Phosphorus
Suffolk	Canaan Lake (1701-0018)	Silt/Sediment
Suffolk	Fresh Pond (1701-0241)	Phosphorus
Suffolk	Great South Bay, East (1701-0039)	Nitrogen
Suffolk	Great South Bay, Middle (1701-0040)	Nitrogen
Suffolk	Great South Bay, West (1701-0173)	Nitrogen
Suffolk	Lake Ronkonkoma (1701-0020)	Phosphorus
Suffolk	Mattituck/Marratooka Pond (1701-0129)	Phosphorus
Suffolk	Mill and Seven Ponds (1701-0113)	Phosphorus
Suffolk	Millers Pond (1702-0013)	Phosphorus
Suffolk	Moriches Bay, East (1701-0305)	Nitrogen
Suffolk	Moriches Bay, West (1701-0038)	Nitrogen
Suffolk	Quantuck Bay (1701-0042)	Nitrogen
Suffolk	Shinnecock Bay and Inlet (1701-0033)	Nitrogen
Suffolk	Tidal Tribs to West Moriches Bay (1701-0312)	Nitrogen
Sullivan	Bodine, Montgomery Lakes (1401-0091)	Phosphorus
Sullivan	Davies Lake (1402-0047)	Phosphorus
Sullivan	Evens Lake (1402-0004)	Phosphorus
Sullivan	Pleasure Lake (1402-0055)	Phosphorus
Sullivan	Swan Lake (1401-0063)	Phosphorus
Tompkins	Cayuga Lake, Southern End (0705-0040)	Phosphorus
Tompkins	Cayuga Lake, Southern End (0705-0040)	Silt/Sediment
Ulster	Ashokan Reservoir (1307-0004)	Silt/Sediment
Ulster	Esopus Creek, Lower, Main Stem (1307-0010) [17]	Turbidity
Ulster	Esopus Creek, Middle, Main Stem (1307-0003) 17	Turbidity
Ulster	Esopus Creek, Upper, and minor tribs (1307-0007)[3]	Silt/Sediment
Ulster	Walkill River, Lower, Main Stem (1306-0027)	Phosphorus
Warren	Hague Brook and tribs (1006-0006)	Silt/Sediment
Warren	Huddle/Finkle Brooks and tribs (1006-0003)	Silt/Sediment
Warren	Indian Brook and tribs (1006-0002)	Silt/Sediment
Warren	Lake George (1006-0016) and tribs	Silt/Sediment
Warren	Tribs to Lake George, East Shore (1006-0020)	Silt/Sediment
Warren	Tribs to Lake George, Lk.George Village (1006-0008)	Silt/Sediment

Washington	Wood Cr/Champlain Canal and tribs (1005-0036)	Phosphorus
Westchester	Lake Katonah (1302-0136)	Phosphorus
Westchester	Lake Lincolndale (1302-0089)	Phosphorus
Westchester	Lake Meahagh (1301-0053)	Phosphorus
Westchester	Lake Mohegan (1301-0149)	Phosphorus
Westchester	Lake Shenorock (1302-0083)	Phosphorus
Westchester	Mamaroneck River, Lower (1702-0071)	Silt/Sediment
Westchester	Mamaroneck River, Upp. & minor tribs (1702-0123)	Silt/Sediment
Westchester	Saw Mill River (1301-0007)	Phosphorus
Westchester	Saw Mill River, Middle, and tribs (1301-0100)	Phosphorus
Westchester	Sheldrake River (1702-0069)	Phosphorus
Westchester	Sheldrake River (1702-0069)	Silt/Sediment
Westchester	Silver Lake (1702-0040)	Phosphorus
Westchester	Teatown Lake (1302-0150)	Phosphorus
Westchester	Truesdale Lake (1302-0054)	Phosphorus
Westchester	Wallace Pond (1301-0140)	Phosphorus

APPENDIX E – List of NYSDEC Regional Offices

Region	Covering the Following Counties:	Division of Environmental Permits (DEP) Permit Administrators	Division of Water (DOW) Water (SPDES) Program
1	NASSAU AND SUFFOLK	50 CIRCLE ROAD STONY BROOK, NY 11790 TEL: (631) 444-0385	50 CIRCLE ROAD STONY BROOK, NY 11790-3409 TEL: (631) 444-0405
2	BROOK, KINGS, NEW YORK, QUEENS AND RICHMOND	1 HUNTERS POINT PLAZA, 4740 21ST STREET LONG BEACH CITY, NY 11101-5407 TEL: (718) 482-4987	1 HUNTERS POINT PLAZA, 4740 21ST STREET LONG BEACH CITY, NY 11101-5407 TEL: (718) 482-4933
3	DUTCHESS, ORANGE, PUTNAM, ROCKLAND, SULLIVAN, ULSTER AND WESTCHESTER	21 SOUTH PUTT CORNERS ROAD NEW PALTZ, NY 12561-1696 TEL: (845) 256-3059	220 WHITE PLAINS ROAD, SUITE 110 TEL: (914) 428 - 2505
4	ALBANY, COLUMBIA, DELAWARE, GREENE, MONTGOMERY, OTSEGO, RENSSELAER, SCHENECTADY AND SCHOHARIE	1130 NORTH WESTCOTT ROAD SCHENECTADY, NY 12306-2014 TEL: (518) 357-2069	1130 NORTH WESTCOTT ROAD SCHENECTADY, NY 12306-2014 TEL: (518) 357-2045
5	CLINTON, ESSEX, FRANKLIN, FULTON, HAMILTON, SARATOGA, WARREN AND WASHINGTON	1115 STATE ROUTE 86, PO BOX 296 RAY BROOK, NY 12977-0296 TEL: (518) 897-1234	232 GOLF COURSE ROAD WARRENSBURG, NY 12885-1172 TEL: (518) 623-1200
6	HERKIMER, JEFFERSON, LEWIS, ONEIDA AND ST. LAWRENCE	STATE OFFICE BUILDING 317 WASHINGTON STREET WATERTOWN, NY 13601-3787 TEL: (315) 785-2245	STATE OFFICE BUILDING 207 GENESEE STREET UTICA, NY 13501-2885 TEL: (315) 793-2554
7	BROOME, CAYUGA, CHENANGO, CORTLAND, MADISON, ONONDAGA, OSWEGO, TIOGA AND TOMPKINS	5786 WIDEWATERS PARKWAY SYRACUSE, NY 13214-1867 TEL: (315) 426-7438	5786 WIDEWATERS PARKWAY SYRACUSE, NY 13214-1867 TEL: (315) 426-7500
8	CHEMUNG, GENESEE, LIVINGSTON, MONROE, ORTHOGRAPH, SCHUYLER, SECAUGUS, STEUBEN, WAYNE AND YATES	6274 EAST AVON-LIMA ROADAVON, NY 14414-9519 TEL: (585) 226-2466	6274 EAST AVON-LIMA RD. AVON, NY 14414-9519 TEL: (585) 226-2466
9	ALLEGANY, CATTARAUGUS, CHAUTAUGUS, ERIE, NIAGARA AND WYOMING	700 DELAWARE AVENUE BUFFALO, NY 14209-2989 TEL: (716) 851-7165	700 DELAWARE AVENUE BUFFALO, NY 14209-2989 TEL: (716) 851-7070

APPENDIX F – SWPPP Preparer Certification Form

The SWPPP Preparer Certification Form required by this permit begins on the following page.



SWPPP Preparer Certification Form

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b., the completed form must be attached to the eNOI and submitted to NYSDEC electronically.)

Project/Site Name:

eNOI Submission ID:

Owner/Operator Name:

Certification Statement – SWPPP Preparer

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) has been prepared in accordance with the requirements of GP-0-25-001. I certify under penalty of law that the SWPPP and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SWPPP Preparer First Name

MI

SWPPP Preparer Last Name

Signature

Date

APPENDIX G – MS4 SWPPP Acceptance Form

The MS4 SWPPP Acceptance Form required by this permit begins on the following page.

NEW YORK STATE Department of Environmental Conservation	MS4 SWPPP Acceptance Form SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP) (In accordance with CGP Part I.D.2.b., the completed form must be attached to the eNOI and submitted to NYSDEC electronically.)
I. Project Owner/Operator Information	
1. Owner/Operator Name:	
2. Contact Person:	
3. Street Address:	
4. City/State/Zip:	
II. Project Site Information	
5. Project/Site Name:	
6. Street Address:	
7. City/State/Zip:	
III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information	
8. SWPPP Reviewed by:	
9. Title/Position:	
10. Date Final SWPPP Reviewed and Accepted:	
IV. Regulated MS4 Information	
11. Name of MS4 Operator:	
12. MS4 SPDES Permit Identification Number: NYR20A	
13. Street Address:	
14. City/State/Zip:	
15. Telephone Number:	

MS4 SWPPP Acceptance Form - continued

V. Certification Statement - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative

I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identified in section II. of this form has been reviewed and meets the substantive requirements in the SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP).

Note: The MS4 Operator, through the acceptance of the SWPPP, assumes no responsibility for violations or penalties resulting from construction activity. (CSP-001)

SWPPP General Permit, Stormwater Discharges from Construction Activity, SP-CO-23-001

The MS4 Operator, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy of the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 Operator does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan.

Printed Name¹:

Title/Position:

Signature: _____

Date:

VI. Additional Information

¹ Printed name of the principal executive officer or ranking elected official for the MS4 Operator or their duly authorized representative in accordance with CGP Part VII.J.2.

(NYSDEC - MS4 SWPPP Acceptance Form - January 2025)

Page 2 of 2



SWPPP Acceptance/Approval

Application Number:

I. Project Owner/Operator Information

1. Owner/Operator Name:

2. Contact Person:

3. Street Address:

4. City/State/Zip:

II. Project Site Information

5. Project/Site Name:

6. Street Address:

7. City/State/Zip:

III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance/Approval

8. SWPPP Reviewed by:

9. Title/Position: /

10. Date Final SWPPP Reviewed and Accepted:

11. Acceptance/Approval Expiration Date:

IV. Regulated MS4 Information for projects that require coverage under the NY State Pollution Discharge Elimination System General Permit for Stormwater Discharges from Construction Activity

12. Name of MS4: CITY OF NEW YORK

13. MS4 SPDES Permit Identification Number: NY-0287890

14. Contact Person:

15. Street Address: 59-17 Junction Blvd. 9th Floor

16. City/State/Zip: Flushing, NY 11373

17. Telephone Number:



Projects in the MS4 area must submit a copy of this SWPPP Acceptance with a Notice of Intent for coverage under the NY SPDES General Permit for Stormwater Discharges from Construction Activity to: NYS Department of Environmental Conservation, Division of Water; 625 Broadway, 4th Floor; Albany, New York 12233-3505.



V. Certification Statement - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative

I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identified in question 5 has been reviewed and meets the substantive requirements in the SPDES General Permit For Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s).

Note: The MS4, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy of the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan.

Printed Name:

Title/Position:

Signature:

Date:

VI. Conditions of Acceptance/Approval and Additional Information



Projects in the MS4 area must submit a copy of this SWPPP Acceptance with a Notice of Intent for coverage under the NY SPDES General Permit for Stormwater Discharges from Construction Activity to: NYS Department of Environmental Conservation, Division of Water; 625 Broadway, 4th Floor; Albany, New York 12233-3505.

APPENDIX I – MS4 No Jurisdiction Form

The MS4 No Jurisdiction Form required by this permit begins on the following page.



MS4 No Jurisdiction Form

for construction activities seeking authorization under the
**SPDES General Permit for Stormwater Discharges from
Construction Activity, GP-0-25-001 (CGP)**

(In accordance with CGP Part I.D.2.b., the completed form must be attached to the eNOI and submitted to NYSDEC electronically.)

I. Project Owner/Operator Information

- a. Owner/Operator Name:
- b. Contact Person:
- c. Street Address:
- d. City/State/Zip:

II. Project Site Information

- a. Project/Site Name:
- b. Street Address:
- c. City/State/Zip:
- d. eNOI Submission ID:

III. Traditional Land Use Control MS4 Operator Information

- a. Name of MS4 Operator:
- b. MS4 SPDES Permit ID Number: NYR20A
- c. Street Address:
- d. City/State/Zip:
- e. Telephone Number:

IV. Certification Statement

In accordance with CGP Part I.D.2.b.ii.3., I hereby certify that the Traditional Land Use Control MS4 Operator identified in section III. of this form does not have review authority over the construction project identified in section II. of this form, which is owned/operated by the entity identified in section I. of this form. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

- a. Printed name of the principal executive officer or ranking elected official for the MS4 Operator or their duly authorized representative in accordance with CGP Part VII.J.2.:

- b. Title/Position:
- c. Signature:
- d. Date:

APPENDIX J – Owner/Operator Certification Form

The Owner/Operator Certification Form required by this permit begins on the following page.



Owner/Operator Certification Form

**SPDES General Permit for Stormwater Discharges from
Construction Activity, GP-0-25-001 (CGP)**

(In accordance with CGP Part I.D.2.b. or Part I.F.2. and 3., the completed form must be attached to the eNOI or the Request to Continue Coverage, and submitted to NYSDEC electronically.

Project/Site Name: _____

eNOI Submission ID: _____

eNOI Submitted by: ☐ Owner/Operator ☐ SWPPP Preparer ☐ Other

Certification Statement - Owner/Operator

I hereby certify that I read, and will comply with, the GP-0-25-001 permit requirements. I understand that authorization to discharge under the permit for the project/site named above is dependent on receipt of a Letter of Authorization (LOA) or a Letter of Continued Coverage (LOCC) from the New York State Department of Environmental Conservation (NYSDEC) in accordance with CGP Part I.D.3.b. or Part I.F.4. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner/Operator First Name MI Owner/Operator Last Name

Signature _____

Date _____

Revised: January 2025

APPENDIX B

LETTERS FROM NYS OPRHP



**New York State
Parks, Recreation and
Historic Preservation**

KATHY HOCHUL
Governor

ERIK KULLESEID
Commissioner

June 6, 2023

Kristen Thordahl
Client Manager
Cornerstone Engineering and Geology, PLLC
100 Crystal Run Road
Suite 101
Middletown, NY 10941

Re: DEC
IWS Goshen Transfer Station: Demolition and New Construction
95 Hartley Rd, Goshen, NY 10924
23PR04473
12-1-20, 21.21 & 21.22

Dear Kristen Thordahl:

Thank you for requesting the comments of the Division for Historic Preservation of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the submitted materials in accordance with the New York State Historic Preservation Act of 1980 (section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the Division for Historic Preservation and relate only to Historic/Cultural resources.

OPRHP has reviewed the newly submitted revised site plans for the IWS Goshen Transfer Station: Demolition and New Construction project (23PR04473). We note that the plan has been altered to remove the previously planned stormwater retention infrastructure.

Based upon this review, it remains OPRHP's opinion that no properties, including archaeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project.

If you have any questions, I can be reached at Bradley.Russell@parks.ny.gov.

Sincerely,

Bradley W. Russell, Ph.D.
Historic Preservation Specialist - Archaeology



**New York State
Parks, Recreation and
Historic Preservation**

KATHY HOCHUL
Governor

RANDY SIMONS
Commissioner Pro Tempore

April 22, 2025

Kristen Thordahl
Project Engineer
Cornerstone Engineering and Geology, PLLC
100 Crystal Run Road
Suite 101
Middletown, NY 10941

Re: DEC
Town of Goshen Chapter 80-B Solid Waste Management Permit
95 Hartley Rd, Goshen, NY 10924
25PR03162

Dear Kristen Thordahl:

Thank you for requesting the comments of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the project in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the OPRHP and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project.

Based upon this review, it is the opinion of OPRHP that no properties, including archaeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above. If you have any questions, please contact Bradley Russell at the following email address:

Bradley.Russell@parks.ny.gov

Sincerely,

R. Daniel Mackay

Deputy Commissioner for Historic Preservation
Division for Historic Preservation

APPENDIX C

NOTICE OF INTENT (NOI) AND LETTER OF AUTHORIZATION (LOA)

To be provide after submission of the NOI on the NY.Gov website which will occur prior to commencement of construction.

APPENDIX D

CERTIFICATION STATEMENTS

Certification Statements will be signed prior to being uploaded on the NY.gov website with the submission of the NOI prior to commencement of construction.

CONTRACTOR CERTIFICATION PAGE

**IWS Transfer Systems of NY
Goshen Transfer Station
95 Hartley Road
Town of Goshen, NY 10924**

"I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the *qualified inspector* during a site inspection. I also understand that the *owner or operator* must comply with the terms and conditions of the most current version of the New York State Pollution Discharge Elimination System ("SPDES") general permit for stormwater *discharges* from *construction activities* and that it is unlawful for any person to cause or contribute to a violation of *water quality standards*. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations."

Name of Contractor/Subcontractor

Phone Number

Address

City, State, Zip Code

Signature of Person Completing this Form

Date

Printed Name

Title

Name of Trained Contractor

Title



Department of
Environmental
Conservation

MS4 SWPPP Acceptance Form

for construction activities seeking authorization under the

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b., the completed form must be attached to the eNOI and submitted to NYSDEC electronically.)

I. Project Owner/Operator Information

- | | |
|-------------------------|---------------------------------------|
| 1. Owner/Operator Name: | I.W.S. Transfer Systems of N.Y., Inc. |
| 2. Contact Person: | James Anderson |
| 3. Street Address: | 300 Frank W. Burr Blvd., Ste. 39 |
| 4. City/State/Zip: | Teaneck, NJ 07666 |

II. Project Site Information

- | | |
|-----------------------|---|
| 5. Project/Site Name: | IWS Goshen Transfer Station Modifications |
| 6. Street Address: | 95 Hartley Road |
| 7. City/State/Zip: | Goshen, NY 10924 |

III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information

- | |
|---|
| 8. SWPPP Reviewed by: |
| 9. Title/Position: |
| 10. Date Final SWPPP Reviewed and Accepted: |

IV. Regulated MS4 Information

- | | |
|---|-------------------|
| 11. Name of MS4 Operator: | Town of Goshen |
| 12. MS4 SPDES Permit Identification Number: | NYR20A 566 |
| 13. Street Address: | 41 Webster Avenue |
| 14. City/State/Zip: | Goshen, NY 10924 |
| 15. Telephone Number: | 845-294-6430 |

MS4 SWPPP Acceptance Form - continued

V. Certification Statement - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative

I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identified in section II. of this form has been reviewed and meets the substantive requirements in the SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP). Note: The MS4 Operator, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy of the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 Operator does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan.

Printed Name¹:

Title/Position:

Signature:

Date:

VI. Additional Information

¹ Printed name of the principal executive officer or ranking elected official for the MS4 Operator or their duly authorized representative in accordance with CGP Part VII.J.2.



Owner/Operator Certification Form

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b. or Part I.F.2. and 3., the completed form must be attached to the eNOI or the Request to Continue Coverage, and submitted to NYSDEC electronically.)

Project/Site Name: IWS Goshen Tranfer Station Modifications

eNOI Submission ID: _____

eNOI Submitted by: ☐ Owner/Operator ☐ SWPPP Preparer ☐ Other

Certification Statement - Owner/Operator

I hereby certify that I read, and will comply with, the GP-0-25-001 permit requirements. I understand that authorization to discharge under the permit for the project/site named above is dependent on receipt of a Letter of Authorization (LOA) or a Letter of Continued Coverage (LOCC) from the New York State Department of Environmental Conservation (NYSDEC) in accordance with CGP Part I.D.3.b. or Part I.F.4. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

James

Owner/Operator First Name

MI

Anderson

Owner/Operator Last Name

Signature

Date



SWPPP Preparer Certification Form

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b., the completed form must be attached to the eNOI and submitted to NYSDEC electronically.)

Project/Site Name:

IWS Goshen Transfer Station Modifications

eNOI Submission ID:

Owner/Operator Name:

I.W.S. Transfer Systems of N.Y., Inc.

Certification Statement – SWPPP Preparer

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) has been prepared in accordance with the requirements of GP-0-25-001. I certify under penalty of law that the SWPPP and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kristen

M.

Thordahl

SWPPP Preparer First Name

MI

SWPPP Preparer Last Name

Signature

Date

APPENDIX E

BLANK INSPECTION FORMS

APPENDIX H

STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM FOR CONSTRUCTION ACTIVITIES CONSTRUCTION SITE LOG BOOK

Table of Contents

- I. Pre-Construction Meeting Documents
 - a. Preamble to Site Assessment and Inspections
 - b. Operator's Certification
 - c. Qualified Professional's Credentials & Certification
 - d. Pre-Construction Site Assessment Checklist
- II. Construction Duration Inspections
 - a. Directions
 - b. Modification to the SWPPP
- III. Monthly Summary Reports
- IV. Monitoring, Reporting, and Three-Month Status Reports
 - a. Operator's Compliance Response Form

Properly completing forms such as those contained in Appendix H meet the inspection requirement of NYS-DEC SPDES GP for Construction Activities. Completed forms shall be kept on site at all times and made available to authorities upon request.

I. PRE-CONSTRUCTION MEETING DOCUMENTS

Project Name _____
Permit No. _____ **Date of Authorization** _____
Name of Operator _____
Prime Contractor _____

a. Preamble to Site Assessment and Inspections

The Following Information To Be Read By All Person's Involved in The Construction of Stormwater Related Activities:

The Operator agrees to have a qualified professional¹ conduct an assessment of the site prior to the commencement of construction² and certify in this inspection report that the appropriate erosion and sediment controls described in the SWPPP have been adequately installed or implemented to ensure overall preparedness of the site for the commencement of construction.

Prior to the commencement of construction, the Operator shall certify in this site logbook that the SWPPP has been prepared in accordance with the State's standards and meets all Federal, State and local erosion and sediment control requirements.

When construction starts, site inspections shall be conducted by the qualified professional at least every 7 calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater (Construction Duration Inspections). The Operator shall maintain a record of all inspection reports in this site logbook. The site logbook shall be maintained on site and be made available to the permitting authorities upon request. The Operator shall post at the site, in a publicly accessible location, a summary of the site inspection activities on a monthly basis (Monthly Summary Report).

The operator shall also prepare a written summary of compliance with this general permit at a minimum frequency of every three months (Operator's Compliance Response Form), while coverage exists. The summary should address the status of achieving each component of the SWPPP.

Prior to filing the Notice of Termination or the end of permit term, the Operator shall have a qualified professional perform a final site inspection. The qualified professional shall certify that the site has undergone final stabilization³ using either vegetative or structural stabilization methods and that all temporary erosion and sediment controls (such as silt fencing) not needed for long-term erosion control have been removed. In addition, the Operator must identify and certify that all permanent structures described in the SWPPP have been constructed and provide the owner(s) with an operation and maintenance plan that ensures the structure(s) continuously functions as designed.

1 "Qualified Professional means a person knowledgeable in the principles and practice of erosion and sediment controls, such as a Certified Professional in Erosion and Sediment Control (CPESC), soil scientist, licensed engineer or someone working under the direction and supervision of a licensed engineer (person must have experience in the principles and practices of erosion and sediment control).

2 "Commencement of construction" means the initial removal of vegetation and disturbance of soils associated with clearing, grading or excavating activities or other construction activities.

3 "Final stabilization" means that all soil-disturbing activities at the site have been completed and a uniform, perennial vegetative cover with a density of eighty (80) percent has been established or equivalent stabilization measures (such as the use of mulches or geotextiles) have been employed on all unpaved areas and areas not covered by permanent structures.

b. Operators Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. Further, I hereby certify that the SWPPP meets all Federal, State, and local erosion and sediment control requirements. I am aware that false statements made herein are punishable as a class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Name (please print): _____

Title _____ **Date:** _____

Address: _____

Phone: _____ **Email:** _____

Signature: _____

c. Qualified Professional's Credentials & Certification

"I hereby certify that I meet the criteria set forth in the General Permit to conduct site inspections for this project and that the appropriate erosion and sediment controls described in the SWPPP and as described in the following Pre-construction Site Assessment Checklist have been adequately installed or implemented, ensuring the overall preparedness of this site for the commencement of construction."

Name (please print): _____

Title _____ **Date:** _____

Address: _____

Phone: _____ **Email:** _____

Signature: _____

d. Pre-construction Site Assessment Checklist

(NOTE: Provide comments below as necessary)

1. Notice of Intent, SWPPP, and Contractors Certification:

Yes No NA

- ☐ ☐ ☐ Has a Notice of Intent been filed with the NYS Department of Conservation?
- ☐ ☐ ☐ Is the SWPPP on-site? Where? _____
- ☐ ☐ ☐ Is the Plan current? What is the latest revision date? _____
- ☐ ☐ ☐ Is a copy of the NOI (with brief description) onsite? Where? _____
- ☐ ☐ ☐ Have all contractors involved with stormwater related activities signed a contractor's certification?

2. Resource Protection

Yes No NA

- ☐ ☐ ☐ Are construction limits clearly flagged or fenced?
- ☐ ☐ ☐ Important trees and associated rooting zones, on-site septic system absorption fields, existing vegetated areas suitable for filter strips, especially in perimeter areas, have been flagged for protection.
- ☐ ☐ ☐ Creek crossings installed prior to land-disturbing activity, including clearing and blasting.

3. Surface Water Protection

Yes No NA

- ☐ ☐ ☐ Clean stormwater runoff has been diverted from areas to be disturbed.
- ☐ ☐ ☐ Bodies of water located either on site or in the vicinity of the site have been identified and protected.
- ☐ ☐ ☐ Appropriate practices to protect on-site or downstream surface water are installed.
- ☐ ☐ ☐ Are clearing and grading operations divided into areas <5 acres?

4. Stabilized Construction Entrance

Yes No NA

- ☐ ☐ ☐ A temporary construction entrance to capture mud and debris from construction vehicles before they enter the public highway has been installed.
- ☐ ☐ ☐ Other access areas (entrances, construction routes, equipment parking areas) are stabilized immediately as work takes place with gravel or other cover.
- ☐ ☐ ☐ Sediment tracked onto public streets is removed or cleaned on a regular basis.

5. Perimeter Sediment Controls

Yes No NA

- ☐ ☐ ☐ Silt fence material and installation comply with the standard drawing and specifications.
- ☐ ☐ ☐ Silt fences are installed at appropriate spacing intervals
- ☐ ☐ ☐ Sediment/detention basin was installed as first land disturbing activity.
- ☐ ☐ ☐ Sediment traps and barriers are installed.

6. Pollution Prevention for Waste and Hazardous Materials

Yes No NA

- ☐ ☐ ☐ The Operator or designated representative has been assigned to implement the spill prevention avoidance and response plan.
- ☐ ☐ ☐ The plan is contained in the SWPPP on page _____
- ☐ ☐ ☐ Appropriate materials to control spills are onsite. Where? _____

II. CONSTRUCTION DURATION INSPECTIONS

a. Directions:

Inspection Forms will be filled out during the entire construction phase of the project.

Required Elements:

- (1) On a site map, indicate the extent of all disturbed site areas and drainage pathways. Indicate site areas that are expected to undergo initial disturbance or significant site work within the next 14-day period;
- (2) Indicate on a site map all areas of the site that have undergone temporary or permanent stabilization;
- (3) Indicate all disturbed site areas that have not undergone active site work during the previous 14-day period;
- (4) Inspect all sediment control practices and record the approximate degree of sediment accumulation as a percentage of sediment storage volume (for example, 10 percent, 20 percent, 50 percent);
- (5) Inspect all erosion and sediment control practices and record all maintenance requirements such as verifying the integrity of barrier or diversion systems (earthen berms or silt fencing) and containment systems (sediment basins and sediment traps). Identify any evidence of rill or gully erosion occurring on slopes and any loss of stabilizing vegetation or seeding/mulching. Document any excessive deposition of sediment or ponding water along barrier or diversion systems. Record the depth of sediment within containment structures, any erosion near outlet and overflow structures, and verify the ability of rock filters around perforated riser pipes to pass water; and
- (6) Immediately report to the Operator any deficiencies that are identified with the implementation of the SWPPP.

SITE PLAN/SKETCH

Inspector (print name)

Date of Inspection

Qualified Professional (print name)

Qualified Professional Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality**Yes No NA**

- ☐ ☐ ☐ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
- ☐ ☐ ☐ Is there residue from oil and floating substances, visible oil film, or globules or grease?
- ☐ ☐ ☐ All disturbance is within the limits of the approved plans.
- ☐ ☐ ☐ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

- ☐ ☐ ☐ Is construction site litter and debris appropriately managed?
- ☐ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
- ☐ ☐ ☐ Is construction impacting the adjacent property?
- ☐ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

- ☐ ☐ ☐ Maximum diameter pipes necessary to span creek without dredging are installed.
- ☐ ☐ ☐ Installed non-woven geotextile fabric beneath approaches.
- ☐ ☐ ☐ Is fill composed of aggregate (no earth or soil)?
- ☐ ☐ ☐ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

- ☐ ☐ ☐ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
- ☐ ☐ ☐ Clean water from upstream pool is being pumped to the downstream pool.
- ☐ ☐ ☐ Sediment laden water from work area is being discharged to a silt-trapping device.
- ☐ ☐ ☐ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader

Yes No NA

- ☐ ☐ ☐ Installed per plan.
- ☐ ☐ ☐ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
- ☐ ☐ ☐ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA

- ☐ ☐ ☐ Installed per plan with minimum side slopes 2H:1V or flatter.
- ☐ ☐ ☐ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
- ☐ ☐ ☐ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

Page 3 of _____

4. Stone Check Dam

Yes No NA

- ☐ ☐ ☐ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☐ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☐ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

- ☐ ☐ ☐ Installed per plan.
☐ ☐ ☐ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

- ☐ ☐ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☐ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

- ☐ ☐ ☐ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☐ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

- ☐ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☐ ☐ ☐ Installed per standards and specifications?
☐ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☐ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

- ☐ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☐ ☐ ☐ Fabric buried 6 inches minimum.
☐ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ____% of design capacity.

Sediment Control Practices (continued)**3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)****Yes No NA**

- ☐ ☐ ☐ Installed concrete blocks lengthwise so open ends face outward, not upward.
- ☐ ☐ ☐ Placed wire screen between No. 3 crushed stone and concrete blocks.
- ☐ ☐ ☐ Drainage area is 1 acre or less.
- ☐ ☐ ☐ Excavated area is 900 cubic feet.
- ☐ ☐ ☐ Excavated side slopes should be 2:1.
- ☐ ☐ ☐ 2" x 4" frame is constructed and structurally sound.
- ☐ ☐ ☐ Posts 3-foot maximum spacing between posts.
- ☐ ☐ ☐ Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
- ☐ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
- Sediment accumulation ____% of design capacity.

4. Temporary Sediment Trap**Yes No NA**

- ☐ ☐ ☐ Outlet structure is constructed per the approved plan or drawing.
- ☐ ☐ ☐ Geotextile fabric has been placed beneath rock fill.
- Sediment accumulation is ____% of design capacity.

5. Temporary Sediment Basin**Yes No NA**

- ☐ ☐ ☐ Basin and outlet structure constructed per the approved plan.
- ☐ ☐ ☐ Basin side slopes are stabilized with seed/mulch.
- ☐ ☐ ☐ Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
- Sediment accumulation is ____% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:

1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
 - a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
 - b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:[illegible]

III. Monthly Summary of Site Inspection Activities

Name of Permitted Facility:	Today's Date:	Reporting Month:
Location:	Permit Identification #:	
Name and Telephone Number of Site Inspector:		

Date of Inspection	Regular / Rainfall based Inspection	Name of Inspector	Items of Concern

Owner/Operator Certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that false statements made herein are punishable as a class A misdemeanor pursuant to Section 210.45 of the Penal Law."

Signature of Permittee or Duly Authorized Representative

Name of Permittee or Duly Authorized Representative

Date

Duly authorized representatives must have written authorization, submitted to DEC, to sign any permit documents.

APPENDIX F

NOTICE OF TERMINATION (NOT)



Department of
Environmental
Conservation

eNOT MS4 Acceptance

for construction activities seeking termination from the

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(The completed form must be attached to the eNOT, which must be submitted to NYSDEC electronically in accordance with CGP Part V.A.5.)

I. Project Owner/Operator Information

- a. Owner/Operator Name: I.W.S. Transfer Systems of N.Y., Inc.
- b. Contact Person: James Anderson
- c. Street Address: 300 Frank W. Burr Blvd., Ste. 39
- d. City/State/Zip: Teaneck, NJ 07666

II. Project Site Information

- a. Project/Site Name: IWS Goshen Transfer Station Modifications
- b. Street Address: 95 Hartley Road
- c. City/State/Zip: Goshen, NY 10924
- d. CGP SPDES Permit ID: pending

III. Traditional Land Use Control MS4 Operator Information

- a. Name of MS4 Operator: Town of Goshen
- b. MS4 SPDES Permit ID Number: NYR20A 566
- c. Street Address: 41 Webster Avenue
- d. City/State/Zip: Goshen, NY 10924
- e. Telephone Number: 845-294-6430

IV. Certification Statement

I have determined that it is acceptable for the owner or operator of the construction project identified above to submit the electronic Notice of Termination in accordance with CGP Part V. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

- a. Printed name of the principal executive officer or ranking elected official for the MS4 Operator or their duly authorized representative in accordance with CGP Part VII.J.2.:
- b. Title/Position:
- c. Signature:
- d. Date:



Department of
Environmental
Conservation

eNOT Owner or Operator Certification

for construction activities seeking termination from the

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(The completed form must be attached to the eNOT, which must be submitted to NYSDEC electronically in accordance with CGP Part V.A.5.)

I. Project Owner/Operator Information

- a. Owner/Operator Name: IW.S. Transfer Systems of N.Y., Inc.
- b. Contact Person: James Anderson
- c. Street Address: 300 Frank W. Burr Blvd., Ste. 39
- d. City/State/Zip: Teaneck, NJ 07666

II. Project Site Information

- a. Project/Site Name: IWS Goshen Transfer Station Modifications
- b. Street Address: 95 Hartley Road
- c. City/State/Zip: Goshen, NY 10924
- d. CGP SPDES Permit ID: pending

III. Certification Statement

I certify that I have met the requirements of CGP Part V.A.1., 2., 3., and 4. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

- a. Printed name of the Owner or Operator: James Anderson
- b. Title/Position: Director of Engineering
- c. Signature:
- d. Date:



Department of
Environmental
Conservation

eNOT Qualified Inspector Certification – Final Stabilization

for construction activities seeking termination from the

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(The completed form must be attached to the eNOT, which must be submitted to NYSDEC electronically in accordance with CGP Part V.A.5.)

I. Project Owner/Operator Information

- a. Owner/Operator Name: I.W.S. Transfer Systems of N.Y., Inc.
- b. Contact Person: James Anderson
- c. Street Address: 300 Frank W. Burr Blvd., Ste. 39
- d. City/State/Zip: Teaneck, NJ 07666

II. Project Site Information

- a. Project/Site Name: IWS Goshen Transfer Station Modifications
- b. Street Address: 95 Hartley Road
- c. City/State/Zip: Goshen, NY 10924
- d. CGP SPDES Permit ID: pending

III. Certification Statement

I hereby certify that all the requirements in CGP Part V.A.1.a.i., ii., and iii. or CGP Part V.A.1.b.i., ii., and iii. have been achieved. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

- a. Printed name of the Qualified Inspector:
- b. Title/Position:
- c. Signature:
- d. Date:

APPENDIX G

CONSTRUCTION DURATION INSPECTION REPORTS & PHOTO LOGS

To be provide upon commencement of construction

APPENDIX D: ENGINEERING REPORT

**ENGINEERING REPORT FOR THE NYSDEC PART 360 SERIES PERMIT
MODIFICATION/RENEWAL, MARCH 2024**

Engineering Report

For the NYSDEC Part 360 Series Permit
Modification/Renewal

Goshen Transfer Station Facility

DEC Application Number (3-3330-00094/00001)

MARCH 2024

PRESENTED TO

I.W.S. Transfer Systems of N.Y., Inc.

95 Hartley Road
Goshen, NY 10924

SUBMITTED BY

Cornerstone Engineering and Geology, PLLC
100 Crystal Run Road, Suite 101
Middletown, NY 10941

P +1.877.294.9070
F +1.877.845.1456
tetrattech.com

Engineering Report

For the NYSDEC Part 360 Series Permit
Modification/Renewal

Goshen Transfer Station Facility

DEC Application Number (3-3330-00094/00001)

MARCH 2024

PRESENTED TO

I.W.S. Transfer Systems of N.Y., Inc.

95 Hartley Road
Goshen, NY 10924

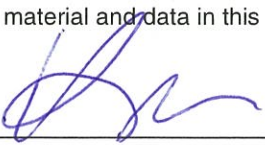
SUBMITTED BY

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Middletown, NY 10941

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F +1.877.845.1456
tetrattech.com

REPORT CERTIFICATION

The material and data in this report were prepared under the supervision and direction of the undersigned.



Kristen M. Thordahl, P.E.
Project Engineer

3/27/2024

Date



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TABLE 1
REGULATORY SUMMARY TABLE FOR ENGINEERING REPORT FOR PERMIT MODIFICATION
6 NYCRR PART 360 SERIES SOLID WASTE MANAGEMENT FACILITIES
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95 HARTLEY ROAD, GOSHEN, NY 10924

SECTION	REQUIREMENT/REGULATION	TEXT	TABLES	APPENDIX	FIGURES	PLANS
SUBPART 360 GENERAL REQUIREMENTS						
360.1	Purpose and applicability	NA	NA	NA	NA	NA
360.2	Definitions	NA	NA	NA	NA	NA
360.3	References	NA	NA	NA	NA	NA
360.4	Transition	NA	NA	NA	NA	NA
360.5	Severability	NA	NA	NA	NA	NA
360.6	Submission requirements and use of professional engineers and certified laboratories	Cover Page	NA	NA	NA	NA
360.7	Inspection of facilities	NA	NA	NA	NA	NA
360.8	Prohibited siting	NA	NA	NA	NA	NA
360.9	Prohibited activities	NA	NA	NA	NA	NA
360.1	Variances	NA	NA	NA	NA	NA
360.11	Comprehensive Recycling Analyses	NA	NA	NA	NA	NA
360.12	Beneficial use	NA	NA	NA	NA	NA
360.13	Special requirements for pre-determined beneficial use of fill material	NA	NA	NA	NA	NA
360.14	Exempt facilities	NA	NA	NA	NA	NA
360.15	Registered facilities, transporters and collection events	NA	NA	NA	NA	NA
360.16	Permit application requirements and permit provisions	NA	NA	NA	NA	NA
360.16(a)(1)-(4)	Submission, signature and verification of applications for facility or waste transporter permits.					
(1)	corporations: by a duly authorized principal executive officer of at least the level of vice president;	NA	NA	Appendix A	NA	NA
(2)	partnership or limited partnership: by a general partner;	NA	NA	NA	NA	NA
(3)	sole proprietorship: by the proprietor; or	NA	NA	NA	NA	NA
(4)	a municipal, State, or other governmental entity: by a duly authorized principal executive officer or elected official.	NA	NA	NA	NA	NA
360.16(b)(1)-(3)	Level of detail.					
(1)	allow the documents to be readily understood;	Entire Engineering Report and Facility Manual				
(2)	allow the department to ascertain the potential environmental impacts of the proposed facility; and	Entire Engineering Report and Facility Manual				
(3)	demonstrate that the siting, design, construction, operation, and closure of the facility will be capable of compliance with the applicable requirements of this Part and Parts 361, 362, 363, and 365, and Subpart 374-2 of this Title.	Entire Engineering Report and Facility Manual				

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SECTION	REQUIREMENT/REGULATION	TEXT	TABLES	APPENDIX	FIGURES	PLANS
360.16(c)	Contents of a new application for a permit.		Entire Engineering Report and Facility Manual			
360.16(c)(1)	Contact information and written permission, including:	Section 3.2	NA	NA	NA	NA
360.16(c)(1)(i)	the name and address of the owner and of the operator of the proposed facility;	Section 3.2.1	NA	NA	NA	NA
360.16(c)(1)(ii)	the name and address of the owner of the property on which the proposed facility is to be located;	Section 3.2.1	NA	NA	NA	NA
360.16(c)(1)(iii)	written permission from the owner(s) of land on which the proposed facility is to be located; and	NA	NA	Appendix A	NA	NA
360.16(c)(1)(iv)	a Certificate under Seal of the Department of State, if applicable.	NA	NA	NA	NA	NA
360.16(c)(2)	Maps and plans.	NA	NA	NA	NA	Engineering Drawings
360.16(c)(2)(i)	Regional map.	NA	NA	NA	NA	Sheet 1
360.16(c)(2)(ii)	Vicinity map.	NA	NA	NA	NA	Sheets 2,3, & 4
360.16(c)(2)(iii)	Site plan.	NA	NA	NA	NA	Sheets 5 & 6
360.16(c)(2)(iii)(a)	the location of the proposed facility and its acreage, and	Section 3.4	NA	Appendix A	1	Sheets 1, 2, 5, & 6
	the location of any State or federally regulated wetland or special flood hazard area, including 100-year flood elevations and location of any floodways pursuant to Part 502 of this Title, on the property and within 800 feet of the perimeter of the property;	Section 3.4 Section 2.7.1, Section 3.4.1	NA	NA	NA	Sheet 2 Sheet 4
360.16(c)(2)(iii)(b)	the location of all public and private water wells on the property and within 800 feet of the perimeter of the property;	Section 3.6.1	NA	NA	NA	Sheet 5
	the location of all monitoring well on the property and within 800 feet of the perimeter of the property;	NA	NA	NA	NA	NA
	the location of all surface water bodies on the property and within 800 feet of the perimeter of the property;	NA	NA	NA	NA	Sheets 1, 2, 3 & 4
	the location of all roads on the property and within 800 feet of the perimeter of the property;	NA	NA	NA	NA	Sheets 3, 4, & 5
	the location of all residences on the property and within 800 feet of the perimeter of the property;	NA	NA	NA	NA	Sheet 4
	the location of all public areas and buildings, including the identification of any buildings which are owned by the applicant or operator, on the property and within 800 feet of the perimeter of the property;	NA	NA	NA	NA	Sheets 2, 3, & 4

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SECTION	REQUIREMENT/REGULATION	TEXT	TABLES	APPENDIX	FIGURES	PLANS
360.16(c)(2)(iii)(c)	the location of all proposed structures,	NA	NA	NA	NA	Sheet 6
	the location of all proposed appurtenances,	NA	NA	NA	NA	Sheet 6
	the location of all proposed screening,	NA	NA	NA	NA	Sheets 6 & 13
	the location of all proposed fences,	NA	NA	NA	NA	Sheet 6
	the location of all proposed gates,	NA	NA	NA	NA	Sheet 6
	the location of all proposed roads,	NA	NA	NA	NA	Sheet 6
360.16(c)(2)(iii)(d)	the location of all proposed parking areas,	NA	NA	NA	NA	Sheet 6
	the location of all proposed areas designated for management of waste;	NA	NA	NA	NA	Sheets 6, 9 & 10
	the drainage characteristics of the proposed facility and of the property on which it is proposed to be located, identifying the direction of stormwater, ditches, and drainage swales together with any drainage controls that exist or will be implemented with facility construction;	NA	NA	NA	NA	Sheet 6
	the location of soil borings, if applicable;	NA	NA	NA	NA	NA
360.16(c)(2)(iii)(e)	existing and proposed elevation contours;	NA	NA	Appendix F	NA	Sheets 5 & 6
360.16(c)(2)(iii)(f)		NA	NA	NA	NA	NA
360.16(c)(2)(iii)(g)	the direction of prevailing winds; and	NA	NA	NA	NA	Sheet 5
360.16(c)(2)(iii)(h)	except in the case of land application facilities, the property boundaries, certified by an individual licensed to practice land surveying in the State of New York, of the property on which the facility is proposed to be located.	NA	NA	Appendix F	NA	Sheet 5
360.16(c)(3)	Engineering report.					
360.16(c)(3)(i)	An engineering report that contains a comprehensive description of the existing site conditions,	Section 3.0	NA	NA	NA	Sheet 5
	a full engineering analysis of the facility including engineering calculations and all raw data,	Section 4.0	NA	Appendix C & D	NA	NA
	a description of the overall process, including flow diagrams, and	Section 6.7	NA	NA	Figures 5 & 6	NA
	a functional description of all equipment to be used, including design criteria, engineering calculations and anticipated performance.	Section 6.10	NA	NA	NA	NA
	Engineering drawings and specifications submitted as part of the engineering report must depict process flows, dimensions, elevations, floor plans, and cross-sectional views of the facility, including all structures, areas designated for unloading, sorting, processing, storage, and loading, and other waste management areas and equipment. Engineering drawings must contain information on known site conditions and projected use of the site.	NA	NA	NA	NA	Engineering Drawings

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360.16(c)(3)(ii)	A noise assessment to demonstrate compliance with the Leq Energy Equivalent Sound levels proscribed in subdivision 360.19(j), below. If the noise assessment indicates the Leq Energy Equivalent Sound Levels will be exceeded, a noise monitoring and control plan to mitigate or monitor sound levels must be included in the application as part of the facility manual.	Section 5.0	NA	NA	NA	NA
360.16(c)(4)	Facility manual. A facility manual, which must include the following:					
360.16(c)(4)(i)	Waste control plan.					
360.16(c)(4)(i)(a)	the facility's service area, both inside and outside New York State, including a list of all planning units or Native American tribes or nations within New York State and counties, provinces or tribes or nations outside of New York State;	Section 6.2	NA	NA	NA	Sheet 1
360.16(c)(4)(i)(b)	the waste that will be accepted at the facility including the type, source, quantity, and, as required for a particular waste stream in Parts 361, 362, 363, or 365 of this Title, analytical results.	Section 6.3	NA	NA	NA	NA
360.16(c)(4)(i)(c)	The description of the quantity must specify the expected average and maximum daily and annual amounts, on a weight and volume basis, and must be specified for each individual type of waste and for the total amount of waste accepted;	Section 6.7	NA	NA	NA	NA
360.16(c)(4)(i)(c)	authorized locations where wastes, including residues, are transported when they leave the facility and what arrangements exist or will exist (contracts, etc.) that verify receiving entities will accept the waste;	Section 6.8	Table 2 of the Facility Manual	Appendix E of the Facility Manual	NA	NA
360.16(c)(4)(i)(d)	inspection to ensure that the facility receives and treats only authorized waste,	Section 7.0	NA	NA	NA	NA
	education to ensure that the facility receives and treats only authorized waste,	Section 7.0	NA	NA	NA	NA
	contractual measures to ensure that the facility receives and treats only authorized waste,	Section 7.0	NA	NA	NA	NA
360.16(c)(4)(i)(e)	including a program to identify, control, segregate, quarantine, record, store, and dispose of unauthorized waste;	Section 7.0	NA	NA	NA	NA
	if friable asbestos-containing waste is accepted at the facility, a detailed waste plan specific to that waste must be included that outlines the procedures for managing the waste;	Section 7.0	NA	NA	NA	NA
360.16(c)(4)(i)(f)	if recyclables are managed at the facility, a detailed plan must be included that describes the types of recyclables that will be recovered, the procedures that will be used for recovery and storage of the recyclables and the disposition of recyclables when they leave the facility;	Section 7.0	NA	NA	NA	NA
360.16(c)(4)(i)(g)	the procedures that will be used for managing mercury-added consumer products that are separately delivered to the facility; and	Section 7.0	NA	NA	NA	NA
360.16(c)(4)(i)(h)	in the case of a landfill, a municipal waste combustor, or a transfer facility, a detailed plan must be included that:	Section 7.0	NA	NA	NA	NA

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SECTION	REQUIREMENT/REGULATION	TEXT	TABLES	APPENDIX	FIGURES	PLANS
360.16(c)(4)(i)(h)(1)	describes procedures to ensure that source-separated recyclables, source-separated yard trimmings and tree debris, source-separated food scraps, and source-separated electronic waste and other product stewardship designated materials are not accepted for disposal, and describes actions to be taken if these materials are received at the facility; and	Section 7.0	NA	NA	NA	NA
360.16(c)(4)(i)(h)(2)	describes procedures and time-frames for conducting periodic waste characterization surveys.	Section 1.3	NA	NA	NA	NA
360.16(c)(4)(ii)	Operations and maintenance plan.					
360.16(c)(4)(ii)(a)	a description of the overall operation of the facility,	Section 6.6	NA	NA	NA	NA
	a description of the procedures to be followed during start-up and scheduled shutdown of operations;	Section 6.4	NA	NA	NA	NA
	a description of the procedures to be followed during unscheduled shutdown of operations;	Section 6.4 & 9	NA	NA	NA	NA
360.16(c)(4)(ii)(b)	the type, purpose, size, capacity, and associated detention times for all waste handling, storage and processing equipment and structures, including back-up facilities and equipment;	Section 6.9 & 6.10	NA	NA	NA	NA
360.16(c)(4)(ii)(c)	a process flow diagram for waste during normal operation. The flow diagram must indicate the average and maximum quantity of waste handled on a weight and volume basis;	Section 6.7	NA	NA	Figures 5 & 6	NA
360.16(c)(4)(ii)(d)	a description of all machinery, equipment, and structures used in waste management operations of the facility, including the design capacity;	Section 6.10	NA	NA	NA	NA
360.16(c)(4)(ii)(e)	a description of the drainage system used for the collection and storage of leachate and the method and location used for disposal of the leachate;	Section 4.2.3	NA	NA	NA	Sheets 9 & 14
360.16(c)(4)(ii)(f)	the monitoring procedures related to waste management;	Section 6.12	NA	NA	NA	NA
	the maintenance procedures related to waste management;	Section 6.12	NA	NA	NA	NA
	inspection procedures related to waste management;	Section 6.12	NA	NA	NA	NA
360.16(c)(4)(ii)(g)	a description of the actions to be taken in response to significant interruptions to the facility's normal operations;	Section 6.4	NA	NA	NA	NA
360.16(c)(4)(ii)(h)	the schedule of operation including the days and hours when the facility will be open to accept and transfer waste, and the days and hours when operations will occur within the facility;	Section 6.1	NA	NA	NA	NA
360.16(c)(4)(ii)(i)	a list of all equipment and instruments requiring calibration and a schedule of proposed calibration intervals;	Section 6.10	NA	NA	NA	NA
360.16(c)(4)(ii)(j)	the estimated maximum daily traffic flow to and from the facility,	Section 6.5	NA	NA	NA	NA
	maximum type and size of vehicles, and	Section 6.5	NA	NA	NA	NA
	maximum number of vehicles that can be accommodated on site;	Section 6.5	NA	NA	NA	NA

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360.16(c)(4)(ii)(k)	where treatment of waste will occur at the facility, a detailed description of each treatment method and unit, including the operating parameters that will be attained to achieve the intended treatment and the frequency, location, and method for monitoring the operating parameters;	NA	NA	NA	NA	NA
360.16(c)(4)(ii)(l)	a discussion of compliance with the operating requirements that are identified in 360.19 and Parts 361, 362, 363, and 365, and Subpart 374-2 of this Title;	Section 10.0	NA	NA	NA	NA
360.16(c)(4)(ii)(m)	the location of all facility records related to the permit; and	Section 10.0	NA	NA	NA	NA
360.16(c)(4)(ii)(n)	a description of the operation of a residential drop-off area, if applicable, for non-commercial vehicles to unload waste and recyclables.	NA	NA	NA	NA	NA
360.16(c)(4)(iii)	Training plan.	Section 8.0	NA	NA	NA	NA
360.16(c)(4)(iv)	Emergency Response Plan.					
360.16(c)(4)(iv)(a)	A description of actions that facility personnel would take in response to emergencies including fires,	Section 9.0	NA	NA	NA	NA
	A description of actions that facility personnel would take in response to emergencies including explosions,	Section 9.0	NA	NA	NA	NA
	A description of actions that facility personnel would take in response to emergencies including natural disasters,	Section 9.0	NA	NA	NA	NA
	A description of actions that facility personnel would take in response to emergencies including spills that occur at the facility.	Section 9.0	NA	NA	NA	NA
	The plan must identify the personnel, equipment, and protocols to be utilized in response to each type of emergency.	Section 9.0	NA	NA	NA	NA
	The plan must also include contact information for designated emergency contacts.	Section 9.0		NA	NA	NA
360.16(c)(4)(iv)(b)	A description of the facility's ability and proposed methods to respond to a natural or manmade disaster that, although it may not have a direct impact on the facility itself, may call for expanded or non-standard services to be provided by the facility (for example, longer operating hours) if department approval is granted for those services.	Section 9.0	NA	NA	NA	NA
360.16(c)(4)(v)	A noise monitoring and control plan.					
360.16(c)(4)(v)(a)	A description of areas of operation where noise propagation off-site is most probable to occur.	N/A	NA	NA	NA	NA
360.16(c)(4)(v)(b)	Mitigation measures (e.g., real-time monitoring system, noise barriers) or modified operational controls that would be utilized to mitigate facility noise when operations are occurring (e.g., reduced equipment operation, limiting trucks tipping in the specified area, limited hours of operation).	NA	NA	NA	NA	NA
360.16(c)(4)(v)(c)	Protocol for noise monitoring including monitoring locations, methods and equipment, monitoring frequency and duration, and action levels.	NA	NA	NA	NA	NA
360.16(c)(4)(v)(d)	Criteria for discontinuing the noise monitoring and control plan.	Section 5.0	NA	NA	NA	NA
360.16(c)(4)(vi)	Closure plan.	Section 11.0	NA	NA	NA	NA

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360.16(c)(5)(i)-(iv)	State and Local Plan Consistency. A demonstration that the facility is consistent with the goals and objectives of:	Section 1.2 & 6.3	NA	NA	NA	NA
360.16(i)	the New York State solid waste management policy identified under subdivision (1) of ECL 27-0106, with an emphasis on diversion from thermal treatment and disposal;	NA	NA	NA	NA	NA
360.16(ii)	the New York State solid waste management plan; and	NA	NA	NA	NA	NA
360.16(iii)	the department-approved Local Solid Waste Management Plan (LSWMP) in effect, if one exists, for the municipalities in the facility's service area.	NA	NA	NA	NA	NA
360.16(iv)	for those municipalities in the service area that do not have a LSWMP in effect, an identification that the municipalities have a department-approved CRA in effect.	NA	NA	NA	NA	NA
360.16(c)(6)	If a facility requiring a permit includes facilities or collection events which would qualify as an exempt or registered facility or collection event, those operations must be described in the permit application.	NA	NA	NA	NA	NA
360.16(d)	New applications submitted by or on behalf of a municipality for a permit under Part 362 or 363 of this Title will not be complete until a LSWMP is in effect for the municipality.	NA	NA	NA	NA	NA
360.16(e)(1)-(5)	In addition to the criteria outlined in subdivision 621.3(e) of this Title, a permit can be denied or revoked based upon the unsuitability of the owner, operator or applicant, as set forth in this subdivision. In addition to any other available grounds, the department can, consistent with the policies of article 23-A of the Correction Law, and the provisions of 70-0115 of the ECL, deny, suspend, revoke or modify any permit, renewal or modification after determining in writing that such action is required to protect the public health or safety. Some of the factors the department can consider in arriving at such determination include:	NA	NA	NA	NA	NA
360.16(1)	the owner or operator has been determined in an administrative, civil or criminal proceeding to have violated any provision of the ECL or other environmental law administered by the department, any order or determination of the commissioner, any regulation of the department, or any similar statute, regulation, order or permit condition of the federal, other state, or local government agency, on one or more occasions the violation that was the basis for the action posed a potential for significant adverse impacts to public health or the environment, or represents a pattern of noncompliance;	NA	NA	NA	NA	NA
360.16(2)	the owner or operator provides materially false or inaccurate information or statements in the permit application;	NA	NA	NA	NA	NA
360.16(3)	the owner, operator or applicant has in any matter within the jurisdiction of the department knowingly falsified or concealed a material fact, knowingly submitted a false statement or made use of or made a false statement on or in connection with any document or application submitted to the department;	NA	NA	NA	NA	NA
360.16(4)	the owner, operator or applicant, except for Part 364 transporters of hazardous waste and regulated medical waste, is either:	NA	NA	NA	NA	NA

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360.16(4)(i)	an individual who had a substantial interest in or acted as a high managerial agent or director for any corporation, partnership, association or organization which committed an act or failed to act, and such act or failure to act could be the basis for the denial of a permit or registration pursuant to this Part, if such corporation, partnership, association or organization applied for a permit pursuant to this Part;	NA	NA	NA	NA	NA
360.16(4)(ii)	a corporation, partnership, association, organization, or any principal thereof, or any person holding a substantial interest therein, which committed an act or failed to act, and such act or failure to act could be the basis for the denial of a permit or registration pursuant to this Part, if such corporation, partnership, association or organization applied for a permit pursuant to this Part;	NA	NA	NA	NA	NA
360.16(4)(iii)	a corporation, partnership, association or organization or any high managerial agent or director thereof, or any person holding a substantial interest therein, acting as high managerial agent or director for or holding a substantial interest in another corporation, partnership, association or organization which committed an act or failed to act, and such act or failure to act could be the basis for the denial of a permit or registration pursuant to this Part had such other corporation, partnership, association or organization applied for a permit under this Part; or	NA	NA	NA	NA	NA
360.16(5)	for a Part 364 transporter of hazardous waste or regulated medical waste (RMW):	NA	NA	NA	NA	NA
360.16(5)(i)	the owner, operator, or applicant has been found in a civil proceeding to have committed a negligent or intentionally tortious act, or has been convicted in a criminal proceeding of a criminal act involving the handling, storing, treating, disposing or transporting of solid waste;	NA	NA	NA	NA	NA
360.16(5)(ii)	the owner, operator or applicant has been convicted of a criminal offense, under the laws of any state or of the United States, which involves a violent felony offense, fraud, bribery, perjury, theft or an offense against public administration as that term is used in article 195 of the Penal Law; or	NA	NA	NA	NA	NA
360.16(5)(iii)	the owner, operator or applicant has in any matter within the jurisdiction of the department knowingly falsified or concealed a material fact, knowingly submitted a false statement or made use of or made a false statement on or in connection with any document or application submitted to the department.	NA	NA	NA	NA	NA
360.16(f)	Permit modifications. An application to modify a permit must include a description of the proposed modification, a description of the impacts of the proposed modification on the facility, and a demonstration that, under the modified permit, the facility will comply with applicable parts of this Title.	Section 3.3	NA	NA	NA	NA
360.16(f)(1)	For the purposes of Part 621 of this Title, the department will treat an application to modify a permit for a facility as a new application if, in addition to the reasons described in 621.11(h) of this Title, any of the following conditions are met:	Section 3.3	NA	NA	NA	NA

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360.16(f)(1)(i)	a horizontal or vertical increase in size of a landfill beyond the limits approved in the permit; or	NA	NA	NA	NA	NA
360.16(f)(1)(ii)	in the absence of a minor project designation under paragraph 621.4(m)(2) of this Title, an expansion or acceptance rate increase at any facility.	NA	NA	NA	NA	NA
360.16(f)(2)	A permit modification may be required if the owner or operator of a facility with a permit proposes to include a facility component on the site that would otherwise qualify as a registered facility or collection event.	NA	NA	NA	NA	NA
360.16(g)	Permit renewals					
360.16(g)(1)	Submission deadline.	NA	NA	NA	NA	NA
360.16(g)(2)	Renewal application contents.	NA	NA	NA	NA	NA
360.16(g)(2)(i)	an updated record of compliance and a demonstration that the facility will be capable of compliance with all applicable requirements of the ECL and this Title and with all permit conditions and a description of how compliance with the requirements and conditions will be ensured;	NA	NA	NA	NA	NA
360.16(g)(2)(ii)	a demonstration that the facility is consistent with the state solid waste management policy identified under subdivision (1) of ECL 27-0106 and the goals and objectives of the New York State solid waste management plan, with an emphasis on diversion from thermal treatment and disposal; and	NA	NA	NA	NA	NA
360.16(g)(2)(iii)	for a renewal application submitted by or on behalf of a municipality for a facility subject to Part 362 or 363 of this Title, a comprehensive recycling analysis in accordance with 360.11 of this Part.	NA	NA	NA	NA	NA
360.16(g)(2)(iv)	submission of an updated Operations and Maintenance Manual.	NA	NA	NA	NA	NA
360.16(g)(3)	An application for renewal that includes physical or operational changes to the facility will also be considered a permit modification request.	NA	NA	NA	NA	NA
360.16(h)	Facilities at or near sites undergoing a remedial program.	NA	NA	NA	NA	NA
360.16(h)(1)	If a facility permitted under this Part is proposed to be located at or within 150 feet of the boundary of a site undergoing a remedial program, the applicant must submit an report that discusses the potential impacts of the facility on the remedial program for that site.	NA	NA	NA	NA	NA
360.16(h)(2)	If a new facility or an expansion of an existing facility is proposed to be located at an inactive hazardous waste site classified as a P site by the department, the applicant must submit as part of a complete application, sufficient information to enable the department to classify the site in question as Class 1, 2, 3, 4 or 5 or to delete the site from the Registry of Inactive Hazardous Waste Disposal Sites.	NA	NA	NA	NA	NA
360.16(i)	Duration of permits.	NA	NA	NA	NA	NA
360.16(j)	Supervision and certification of construction.	NA	NA	NA	NA	NA
360.17	Nonspecific facilities	NA	NA	NA	NA	NA

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360.18	Research, development, and demonstration registrations and permits	NA	NA	NA	NA	NA
360.19	Operating requirements					
360.19(a)	Applicability.	Section 2.5	NA	NA	NA	NA
360.19(b)	Water protection.	Section 4.2.3	NA	NA	NA	NA
360.19(b)(1)	The owner or operator of a facility must prevent waste from being deposited in or entering surface waters or groundwater.	Section 4.2.3	NA	NA	NA	Sheets 6 and 9
360.19(b)(2)	The owner or operator of a facility must operate the facility in a manner that minimizes the generation of leachate and that does not allow any leachate to enter surface waters or groundwater except under authority of a State Pollutant Discharge Elimination System permit.	Section 4.2.3	NA	NA	NA	Sheets 6 and 9
360.19(c)	Waste acceptance and control.	Section 7.0	NA	NA	NA	NA
360.19(c)(1)	The owner or operator of a facility must institute, maintain, and enforce a waste control plan. Components of this plan must include, but not be limited to, the following measures to ensure that only authorized waste is accepted at the facility:	Section 7.0	NA	NA	NA	NA
360.19(c)(1)(i)	posting clearly legible signs at all public access points indicating hours of operation and the types of waste accepted and not accepted;	Section 3.5.2	NA	NA	NA	NA
360.19(c)(1)(ii)	inspecting incoming loads of waste; and	Section 6.6 & 7.0	NA	NA	NA	NA
360.19(c)(1)(iii)	specifying which types of waste are authorized to be accepted in contracts with waste suppliers.	Section 6.3	NA	NA	NA	NA
360.19(c)(1)(iv)	identifying materials intended for beneficial use, a marketing plan for those materials, and a plan for disposal or alternative use of materials that fail to meet the criteria for the intended beneficial use.	NA	NA	NA	NA	NA
360.19(c)(1)(v)	in addition, landfills, combustion facilities, thermal treatment facilities, municipal solid waste processing facilities and transfer facilities must:	NA	NA	NA	NA	NA
360.19(c)(1)(v)(a)	educate users of their facilities on the proper methods for the management of electronic waste, including:	NA	NA	NA	NA	NA
360.19(c)(1)(v)(a)(1)	providing written information annually to all potential users of the facility on the proper methods of recycling electronic waste;	NA	NA	NA	NA	NA
360.19(c)(1)(v)(a)(2)	maintaining written information on-site and upon request, providing the information to users of the facility; and	NA	NA	NA	NA	NA
360.19(c)(1)(v)(a)(3)	posting, in conspicuous locations at the facility, signs stating that electronic waste cannot be disposed of at the facility; and	NA	NA	NA	NA	NA
360.19(c)(1)(v)(b)	post a sign, in a conspicuous location, stating that mercury-added thermostats are not accepted at the facility.	NA	NA	NA	NA	NA

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360.19(c)(2)	Except for facilities regulated under 360.17 and 360.18 of this Part or Part 361, Part 365, or Subpart 362-4 of this Title, a facility must not accept waste from New York State that is generated within a municipality that is not included in a department-approved comprehensive recycling analysis (CRA) or a department-approved local solid waste management plan (LSWMP).	Section 6.3	NA	NA	NA	NA
360.19(c)(3)	The owner or operator of a facility must develop and implement a program to train facility staff to implement the waste control plan.	Section 8.0	NA	NA	NA	NA
360.19(c)(4)	If unauthorized waste is delivered to the facility it must be adequately segregated, secured, and contained in order to prevent leakage or contamination of the environment and must be removed within seven days after receipt, unless a different period is authorized by the department in the waste control plan. Transportation must be performed by a person authorized to transport the waste, and disposition must be to a facility or location authorized to receive the waste for management.	Section 9.0	NA	NA	NA	NA
360.19(c)(4)(i)	If the owner or operator accepts unauthorized waste, the owner or operator must maintain at the facility a record of each incident identifying the type of waste and its final disposition. The owner or operator must include this information in the facility annual report. For each incident, the owner or operator must record:	Section 9.0	NA	NA	NA	NA
360.19(c)(4)(i)(a)	the date and time;	Section 9.0	NA	NA	NA	NA
360.19(c)(4)(i)(b)	a description of the incident;	Section 9.0	NA	NA	NA	NA
360.19(c)(4)(i)(c)	contact and vehicle information for the waste transporter that delivered the unauthorized waste;	Section 9.0	NA	NA	NA	NA
360.19(c)(4)(i)(d)	contact information for the generator of the unauthorized waste; and	Section 9.0	NA	NA	NA	NA
360.19(c)(4)(i)(e)	a description of the response to the incident and the disposition of the waste.	Section 9.0	NA	NA	NA	NA
360.19(c)(5)	The owner or operator of a facility must not accept waste unless the vehicle transporting the waste is adequately covered or the waste is containerized. When leaving the facility, all vehicles containing waste must utilize a cover which prevents waste and leachate from escaping the vehicle, or the waste must be containerized.	Sections 6.6 & 6.11	NA	NA	NA	NA
360.19(c)(6)	The owner or operator of a facility which is authorized to manage mercury-containing devices or mercury-added consumer products must not place any of those materials in a combustor or landfill, or direct the material to a combustor or landfill.	Sections 6.6.2 & 6.11	NA	NA	NA	NA
360.19(c)(7)	If a facility provides a residential drop-off area for non-commercial vehicles to unload waste and recyclables, the owner or operator must provide a separate, designated area for that activity and must provide for collection of source-separated recyclables, if other collection is not provided to residents.	NA	NA	NA	NA	NA
360.19(c)(7)		Section 6.6	NA	NA	NA	NA

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360.19(c)(8)	The owner or operator of a facility must ensure that all waste leaving the facility is destined to be managed at a facility authorized by the department if located in this state, or authorized by the appropriate governmental agency or agencies if located in another state, territory, or nation.	Section 6.8	NA	Appendix E of the Facility Manual	NA	NA
360.19(c)(9)	The owner or operator of a facility must ensure that all unloading and loading areas are adequate in size and designed to facilitate efficient movement of waste to and from the collection vehicles and to facilitate the unobstructed movement of vehicles.	Section 6.6	NA	NA	NA	NA
360.19(c)(10)	The owner or operator of a facility must ensure that all areas containing waste are strictly and continuously secured to prevent unauthorized access by use of fencing, gates, signs, natural barriers, or other suitable means as determined by the department. Waste must not be used as a barrier.	Sections 3.5 & 6.6	NA	NA	NA	NA
360.19(c)(11)	The owner or operator of a facility must ensure that storage volumes and throughput limits established by the requirements of this Part 360, 361, 362, 363, or 365 of this Title or by the volumes and throughput declared on the registration form for the facility are not exceeded.	Section 4.1	NA	NA	NA	NA
360.19(c)(12)	An attendant must be on duty at a facility which has permanent operating mechanical equipment whenever the facility is open.	NA	NA	NA	NA	NA
360.19(d)	Operation and maintenance.					
360.19(d)(1)	All maintenance and operating activities at the facility are performed in accordance with the facility manual required by 360.16(c)(4) of this Part, if applicable.	Section 6.0	NA	NA	NA	NA
360.19(d)(2)	The facility accommodates expected traffic flow in a safe and efficient manner. Facility roadways are passable in all weather conditions.	Section 6.5	NA	NA	NA	NA
360.19(d)(3)	Tracking of soil, waste, leachate and other materials from the facility onto off-site roadways is prevented.	Section 6.11	NA	NA	NA	NA
360.19(d)(4)	All equipment, storage containers, and storage areas are sufficient for the quantity and type of waste managed at the facility. Adequate numbers, types, and sizes of properly maintained equipment are available during all hours of operation.	Section 6.9 & 6.10	NA	NA	NA	NA
360.19(d)(5)	All floors and working areas are adequately drained, properly maintained, and standing water is minimized. All drainage and wash waters are collected and handled in a manner acceptable to the department.	Section 4.0	NA	NA	NA	Sheets 6, 9 & 10
360.19(d)(6)	The facility is properly graded to prevent soil erosion and to minimize ponding.	Section 4.4	NA	NA	NA	Sheet 6
360.19(d)(7)	Equipment and systems required to manage waste at the facility are properly operated, calibrated, and maintained at all times.	Section 6.10 & 6.12	NA	NA	NA	NA
360.19(d)(8)	Prior to leaving the facility, any vehicle containing waste must be covered with, at a minimum, a mesh or fabric cover acceptable to the department.	Section 6.6.2	NA	NA	NA	NA

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360.19(d)(9)	If an unscheduled total facility shutdown exceeds 24 hours, the facility will immediately notify the department describing the incident and the proposed waste management activities.	Section 6.4, Section 9	NA	NA	NA	NA
360.19(e)	Routine inspection.	Section 6.12	NA	NA	NA	NA
360.19(f)	Confinement of waste.	Section 6.6	NA	NA	NA	NA
360.19(g)	Dust control.	Section 4.2.6	NA	NA	NA	NA
360.19(h)	Vector control.	Section 6.11	NA	NA	NA	NA
360.19(i)	Odor control.	Section 4.2.6 & 6.11	NA	NA	NA	NA
360.19(j)	Noise.	Section 5.0	NA	NA	NA	NA
360.19(j)(1)	If the background sound level exceeds the referenced Leq sound level limit, the Leq sound levels from facility sources and background sources when combined must not exceed the Leq sound level of the background sources alone by more than 3 decibels (A).	NA	NA	NA	NA	NA
360.19(j)(2)	The background sound level, measured as Leq, is the existing ambient sound level during a period of peak acoustical energy measured in the absence of sound produced by equipment or operations at the facility. A background sound level monitoring protocol must be submitted to the Department for approval prior to conducting background measurements.	NA	NA	NA	NA	NA
360.19(j)(3)	Sound levels must be measured using the slow time constant and A-weighting. During the measurement period, no precipitation must occur and wind speeds must not exceed 12 miles per hour.	NA	NA	NA	NA	NA
360.19(j)(4)	Measuring instruments must be Type 1 or Class 1 precision sound level meters, Type 2 or Class 2 general purpose sound level meters, or corresponding special sound level meters Type S1A or S2A.	NA	NA	NA	NA	NA
360.19(j)(5)	Noise assessments must include details of the attenuation factors and calculations utilized. Noise assessment calculations are allowed to utilize average annual conditions when calculating atmospheric attenuation.	NA	NA	NA	NA	NA
360.19(j)(6)	Mufflers are required on all internal combustion-powered equipment used at the facility.	Section 6.11	NA	NA	NA	NA

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360.19(k)	Recordkeeping and reporting.	Section 10.0	NA	NA	NA	NA
360.19(k)(1)	Application documents.	Appendix A	NA	NA	NA	NA
360.19(k)(2)	Operating records:	Section 10.0	NA	NA	NA	NA
360.19(k)(2)(i)	A daily log of wastes received that identifies the waste type, quantity, date received, and planning unit where the waste was generated, and the quantity and destination of any waste, products or recyclables that are removed from the facility.	Section 10.0	NA	NA	NA	NA
360.19(k)(2)(ii)	Routine inspection logs that must include, at a minimum, the following information: the date and time of the inspection, the name of the inspector, a description of the inspection including the identity of specific equipment and structures inspected, the observations recorded, and the date and nature of any remedial actions implemented or repairs made as a result of the inspection.	Section 10.0	NA	NA	NA	NA
360.19(k)(2)(iii)	All monitoring information necessary for compliance with the requirements of this Part and the requirements applicable to permitted facilities in Parts 361, 362, 363, and 365 of this Title.	Section 10.0	NA	NA	NA	NA
360.19(k)(2)(iv)	Records documenting training programs, schedules, and certifications as required.	Section 10.0	NA	NA	NA	NA
360.19(k)(2)(v)	Any other information required in a permit or registration under this Part or that the department may require be created and maintained as part of the daily operating records.	NA	NA	NA	NA	NA
360.19(k)(3)	Annual report.	Section 10.0	NA	NA	NA	NA
360.19(k)(3)(i)	The owner or operator of a facility must submit a completed annual report in a format acceptable to the department no later than March 1 of each year for the previous calendar year, on forms prescribed by the department.	Section 10.0	NA	NA	NA	NA
360.19(k)(3)(ii)	The owner or operator of a facility required to report to the department related to the facility's compliance under this Part or Parts 361, 362, 363, or 365 of this Title, or under the terms of any permit issued under this Part, must make, sign, and submit with the report the following certification:	Section 10.0	NA	NA	NA	NA
360.19(l)	Personnel training.	Section 8.0	NA	NA	NA	NA
360.19(m)	Emergency Response.	Section 9.0	NA	NA	NA	NA

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360.19(n)(1)-(3)	Tank Requirements:	Section 4.2.3 & 6.10.1	NA	NA	NA	NA
360.19(n)(1)	All tanks must:					
360.19(n)(1)(i)	be chemically compatible with the waste being stored;	Section 6.10.1	NA	NA	NA	NA
360.19(n)(1)(ii)	be equipped with an overflow prevention system in good working order; and	Section 6.10.1	NA	NA	NA	NA
360.19(n)(1)(iii)	have double-walled construction with leak detection, if deemed necessary by the NYSDEC.	Section 6.10.1	NA	NA	NA	NA
360.19(n)(2)	If required by the department, above ground tanks must:					
360.19(n)(2)(i)	have and maintain a secondary containment system that is compatible with the waste being stored;	Section 6.10.1	NA	NA	NA	NA
360.19(n)(2)(ii)	have a secondary containment system designed and built to contain 110% of the volume of either the largest tank within the containment system or the total volume of all interconnected tanks, whichever is greater;	Section 6.10.1	NA	NA	NA	NA
360.19(n)(2)(iii)	be located on a stable surface which prevents movement, rolling, or settling;	Section 6.10.1	NA	NA	NA	NA
360.19(n)(2)(iv)	have a system to remove stormwater from the secondary containment area. Precipitation removal (rain, snow, or ice) must be initiated before ten percent of the storage capacity is reached; and	Section 6.10.1	NA	NA	NA	NA
360.19(n)(2)(v)	have a minimum of two feet of freeboard if open on the top.	NA	NA	NA	NA	NA
360.19(n)(3)	Self inspection requirements for tanks and related equipment:					
360.19(n)(3)(i)	tanks must be inspected on no less than a monthly basis when waste is present in the tank, and the interior inspected whenever emptied;	Section 6.10.1	NA	NA	NA	NA
360.19(n)(3)(ii)	if the inspection reveals a leak or any other deficiency that would result in failure of the tank, remedial measures must be taken immediately to eliminate the leak or correct the deficiency; and	Section 6.10.1	NA	NA	NA	NA
360.19(n)(3)(iii)	the overflow protection system must be inspected monthly when waste is present in the tank.	Section 6.10.1	NA	NA	NA	NA
360.20 Environmental monitoring services						
360.20(a)(1)-(4) & (b)(1)-(2)	The department may require environmental monitoring services at any facility anytime during the construction, operation, closure, and post-closure of the facility to be paid for by the facility where:	NA	NA	NA	NA	NA

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360.21 Closure requirements						
360.21(a)(1)-(4)	Except as otherwise provided in this Part or in Part 361, 362, 363, 365 or Subpart 374-2 of this Title, the owner or operator of a facility that requires a permit or registration must comply with the following requirements:	Section 11.0	NA	NA	NA	NA
360.21(a)(1)	Notify the department in writing 30 days prior to the anticipated final receipt of waste and within seven days of completion of all closure activities.	NA	NA	NA	NA	NA
360.21(a)(2)	Within 30 days after receiving the final quantity of wastes, submit an annual report to the department as required under this Part.	NA	NA	NA	NA	NA
360.21(a)(3)	Within 60 days after receiving the final quantity of waste, remove and deliver any remaining waste to a facility authorized to accept the waste.	NA	NA	NA	NA	NA
360.21(a)(4)	Within 90 days after receiving the final quantity of waste, complete all closure activities, including removal of all products resulting from the processing of waste and decontamination of all equipment and structures involved in any aspect of waste management, in a manner acceptable to the department.	NA	NA	NA	NA	NA
360.22 Financial assurance		Section 2.4	NA	Appendix B of the Facility Manual	NA	NA

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6 NYCRR PART 361-5 CONSTRUCTION AND DEMOLITION DEBRIS HANDLING AND RECOVERY FACILITIES
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SUBPART 361-5 CONSTRUCTION AND DEMOLITION DEBRIS HANDLING AND RECOVERY FACILITIES						
361-5.1 Applicability						
	This Subpart applies to facilities that process and/or store construction and demolition (C&D) debris in order to extract recyclable or reusable materials. The requirements contained in Part 360 of this Title also apply to this Subpart.	-	-	-	-	-
361-5.2 Registered facilities						
		NA	NA	NA	NA	NA
361-5.3 Permit application requirements						
	A C&D debris handling and recovery facility that is not subject to the registration provisions of section 361-5.2 of this Subpart must obtain a permit, and must submit an application that includes the requirements identified in section 360.16 of this Title and a description of how the facility will comply with the operating requirements in Part 360.19 of this Title and this Subpart.	Entire Engineering Report				
361-5.4 Design and operating requirements						
	A C&D debris handling and recovery facility required to obtain a registration or permit must, in addition to the requirements identified in Part 360 of this Title, design, construct, maintain, and operate the facility in compliance with the following:	-	-	-	-	-
361-5.4(a)	All receiving, processing, and sorting activities must be conducted in an enclosed building unless otherwise specified in this Subpart or in the transition provisions of 360.4(b)(4). An enclosed building is not required for concrete and other masonry material (including steel or fiberglass reinforcing embedded in concrete), asphalt pavement or asphalt millings, brick, rock, fill material, roofing shingles or unadulterated wood.	Section 4.2	NA	NA	NA	Sheet 9 & 10
361-5.4(b)	All waste and recovered material delivered to and leaving the facility must be weighed or otherwise measured and recorded in cubic yards and tons.	Section 6.6	NA	NA	NA	NA
361-5.4(c)	Friable asbestos-containing waste must not be accepted at the facility. Non-friable asbestos- containing waste, if received at the facility, must not be handled or processed in any way that would cause the material to become crumbled, pulverized, or reduced to powder.	Section 6.3	NA	NA	NA	NA
361-5.4(d)	The facility must not accept C&D debris, fill material, or similar material from a site being remediated pursuant to a program administered by the department or EPA unless accompanied by written approval from the department or EPA.	Section 6.3	NA	NA	NA	NA

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361-5.4(e)	For permitted facilities and facilities authorized under paragraphs (6) and (7) of subdivision 361- 5.2(a) of this Subpart, any fill material or residue leaving the facility for reuse must be analyzed in accordance with the sampling and analysis requirements in paragraph 360.13(e) of this Title, except a minimum of 1 analyses is required for every 1000 cubic yards of fill material, and must follow the criteria outlined in paragraph 360.13(f) of this Title.	Section 6.8	NA	NA	NA	NA
361-5.4(f)	Storage requirements.	Section 6.9	NA	NA	NA	NA
361-5.4(f)(1)	Storage of processed and unprocessed C&D debris is limited as follows:	Section 6.9	NA	NA	NA	NA
361-5.4(f)(1)(i)	Unprocessed asphalt pavement, asphalt millings, concrete and other masonry materials (including steel or fiberglass reinforcing embedded in concrete), brick, fill material, rock, or wood can be stored uncovered, but in all cases storage is limited to 365 calendar days unless the following criteria are satisfied to justify a longer storage period.	Section 6.9	NA	NA	NA	NA
361-5.4(f)(1)(i)(a)	There is a demonstrated need to store for a longer period, such as a market agreement with terms of receipt based on greater than 365-day intervals or volumes that may take longer than 365 days to acquire;	NA	NA	NA	NA	NA
361-5.4(f)(1)(i)(b)	The facility has sufficient storage area to prevent a negative impact to public health or the environment; and	NA	NA	NA	NA	NA
361-5.4(f)(1)(i)(c)	The facility implements an inventory control system, including daily logs, to ensure that the processed recyclables do not remain at the facility for longer than the period approved.	NA	NA	NA	NA	NA
361-5.4(f)(1)(i)(d)	Prior to storing unprocessed and processed recyclable for longer than 365 calendar days, the facility must notify the department of its intent and include justification based on the requirements of this subdivision.	NA	NA	NA	NA	NA
361-5.4(f)(1)(ii)	Storage of any other unprocessed C&D debris must be in an enclosed or covered storage area for a period not to exceed 30 calendar days unless written approval from the department is obtained; and	Section 6.9	NA	NA	NA	NA
361-5.4(f)(1)(iii)	Storage of material at the site must not exceed the declared volume identified in the application or registration documents.	Section 4.1 & 6.9	NA	Appendix C	NA	NA
361-5.4(f)(1)(iv)	Source-separated or processed and separated material that meets a beneficial use determination as specified in section 360.12 or 360.13 of this Title can be stored without time restriction so long as the storage volume conforms with the declared storage volume identified in the application or registration documents;	Section 6.9	NA	NA	NA	NA

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361-5.4(f)(2)	Processed and unprocessed C&D debris must not be stored in excavations or below normal grade level of the facility.	Section 6.9	NA	NA	NA	Sheet 9
361-5.4(f)(3)	With the exception of concrete, asphalt pavement or cuttings, brick, or rock, a minimum separation distance of ten feet must be maintained between adjacent storage piles unless the piles are stored in bins or other structures which separate piles. Storage piles must not extend over property boundaries.	Section 6.9	NA	Appendix C	NA	NA
361-5.4(f)(4)	Storage area floors must be constructed of concrete or asphalt paving material and must be equipped with adequate drainage and retention structures. However, concrete or asphalt storage area floors are not required for the separate storage of processed or unprocessed uncontaminated concrete, other masonry waste, asphalt pavement, asphalt millings, unadulterated wood, brick, fill material or rock.	Section 6.9	NA	NA	NA	Sheet 9
361-5.4(g)	A permitted facility must maintain financial assurance in an amount sufficient to cover the cost of closure of the facility as specified by sections 360.21 and 360.22 of this Title.	Section 2.4	NA	NA	NA	NA
361-5.5 Recordkeeping and reporting requirements						
The following criteria apply to both registered and permitted facilities:						
361-5.5(a)	The facility must keep records in accordance with subdivision 360.19(k) of this Title. In addition to the requirements of section 360.19 of this Title, all C&D debris handling and recovery facilities must maintain daily records of the quantity of recyclables sent from the facility by material type, including the quantity and destination of material used as alternative operating cover as described in section 363-6.21 of this Title.	- Section 10.0	- NA	- NA	- NA	- NA
361-5.5(b)	The facility must submit an annual report as required by paragraph 360.19(k)(3) of this Title.	Section 10.0	NA	NA	NA	NA

TABLE 2
REGULATORY SUMMARY TABLE FOR ENGINEERING REPORT FOR PERMIT MODIFICATION
6 NYCRR PART 361-5 CONSTRUCTION AND DEMOLITION DEBRIS HANDLING AND RECOVERY FACILITIES
IWS TRANSFER SYSTEMS OF NY, INC. - GOSHEN TRANSFER STATION FACILITY
95 HARTLEY ROAD, GOSHEN, NY 10924

SECTION	REQUIREMENT/REGULATION	TEXT	TABLES	APPENDIX	FIGURES	PLANS
361-5.6 C&D debris tracking from registered and permitted facilities						
361-5.6(a)	All fill material, material that does not qualify for a beneficial use under Section 360.12 of this Title, or residue leaving a registered or permitted C&D debris handling and recovery facility, and any other material if required pursuant to a department- approved remedial plan, must be accompanied by a C&D debris tracking document prescribed by the department that indicates, at a minimum:	Section 6.6 & 10.0	NA	NA	NA	NA
361-5.6(a)(1)	The name and address of the C&D debris handling and recovery facility that generated the waste or material transported;	Section 6.6 & 10.0	NA	NA	NA	NA
361-5.6(a)(2)	The name of the transporter; and	Section 6.6 & 10.0	NA	NA	NA	NA
361-5.6(a)(3)	The intended destination of the material.	Section 6.6 & 10.0	NA	NA	NA	NA
361-5.6(b)	Once the waste or material has reached its destination for disposal or use, the transporter must sign the C&D debris tracking document confirming its delivery. The receiving facility must then sign the C&D debris tracking document and return it to the generating facility within 2 weeks. The generating facility must maintain these C&D debris tracking documents at its facility for inspection by the department.	Section 6.6 & 10.0	NA	NA	NA	NA
361-5.6(c)	If materials are transported to other processing facilities regulated under this Subpart, the additional processing and ultimate disposal or use must be recorded on the C&D debris tracking document or on a new tracking document.	NA	NA	NA	NA	NA
361-5.6(d)	The facility must maintain all C&D debris tracking documents for a minimum of 7 years as required by paragraph 360.19(k)(2) of this Title.	Section 6.6 & 10.0	NA	NA	NA	NA

TABLE 3
REGULATORY SUMMARY TABLE FOR ENGINEERING REPORT FOR PERMIT MODIFICATION
6 NYCRR PART 362-3 TRANSFER FACILITIES
IWS TRANSFER SYSTEMS OF NY, INC. - GOSHEN TRANSFER STATION FACILITY
95 HARTLEY ROAD, GOSHEN, NY 10924

SECTION	REQUIREMENT/REGULATION	TEXT	TABLES	APPENDIX	FIGURES	PLANS
SUBPART 362-3 TRANSFER FACILITIES						
362-3.1 Applicability						
362-3.1	In addition to Part 360 of this Title, this Subpart applies to facilities that receive solid waste for the purpose of subsequent transfer to another facility for further processing, treatment, transfer, or disposal. In addition to Part 360 of this Title, and this Subpart, facilities that process and separate construction and demolition debris are also regulated by Subpart 361- 5 of this Title.	NA	NA	NA	NA	NA
362-3.2 Exempt facilities.						
362-3.2(a)(1)-(4)	A facility where waste is transferred from vehicle to vehicle, including truck to train and truck to barge, for shipment to another authorized facility, provided the following criteria are met:	NA	NA	NA	NA	NA
362-3.2(b)	A transfer facility that is owned or operated by a municipality, or contracted by or on behalf of a municipality that accepts no more than 20 cubic yards of waste per day, for the purpose of shipment to another authorized facility, provided the following criteria are met:	NA	NA	NA	NA	NA
362-3.2(b)(1)	only residential waste is accepted at the facility;	NA	NA	NA	NA	NA
362-3.2(b)(2)	the transfer location and all vehicles are owned or leased by the municipality or a contractor working on behalf of the municipality;	NA	NA	NA	NA	NA
362-3.2(b)(3)	the waste is not placed on the ground at any time during the transfer;	NA	NA	NA	NA	NA
362-3.2(b)(4)	all putrescible waste is removed from the facility once a container is full or at least once every seven days, whichever occurs first;	NA	NA	NA	NA	NA
362-3.2(b)(5)	the waste is stored in rigid leak-proof containers and covered at the end of the operating day;	NA	NA	NA	NA	NA
362-3.2(b)(6)	the municipality provides for the collection of source-separated recyclables at the facility.	NA	NA	NA	NA	NA
362-3.2(b)(7)	waste received separately for recycling must be stored separately by waste type.	NA	NA	NA	NA	NA
362-3.2(b)(8)	Nonputrescible recyclables can be stored for up to 90 calendar days;	NA	NA	NA	NA	NA
	all waste is transferred manually from incoming vehicles to the waste containers; and	NA	NA	NA	NA	NA
362-3.2(b)(9)	the facility accepts waste only when an attendant is on duty.	NA	NA	NA	NA	NA
362-3.2(C)(1)-(3)	A transfer facility that accepts no more than five cubic yards of source-separated organic waste per day for shipment to an authorized transfer or treatment facility, provided the following criteria are met:	NA	NA	NA	NA	NA
362-3.3 Registered facilities.						
		NA	NA	NA	NA	NA

TABLE 3
REGULATORY SUMMARY TABLE FOR ENGINEERING REPORT FOR PERMIT MODIFICATION
6 NYCRR PART 362-3 TRANSFER FACILITIES
IWS TRANSFER SYSTEMS OF NY, INC. - GOSHEN TRANSFER STATION FACILITY
95 HARTLEY ROAD, GOSHEN, NY 10924

SECTION	REQUIREMENT/REGULATION	TEXT	TABLES	APPENDIX	FIGURES	PLANS
362-3.4 Permit application requirements						
362-3.4(a)	A radioactive waste detection plan.	Section 3.6.4 & 7.0	NA	NA	NA	NA
362-3.4(b)	A program for detecting and preventing the receipt of hazardous wastes at the facility. This program must include, but not be limited to:	Section 7.0	NA	NA	NA	NA
362-3.4(b)(1)	random inspections of incoming loads;	Section 7.0	NA	NA	NA	NA
362-3.4(b)(2)	inspections of suspicious loads;	Section 7.0	NA	NA	NA	NA
362-3.4(b)(3)	records of inspections;	Section 10.0	NA	NA	NA	NA
362-3.4(b)(4)	procedures for notifying the proper authorities if a hazardous waste is discovered in a load; and	Section 7.0	NA	NA	NA	NA
362-3.4(b)(5)	procedures of proper management of discovered hazardous waste.	Section 7.0	NA	NA	NA	NA
362-3.5 Design and operating requirements.						
362-3.5(a)	Source-separated recyclables, source-separated household hazardous waste, source-separated electronic wastes, source-separated rechargeable batteries, source-separated mercury-containing products, and other source-separated items that are subject to legislatively enacted product stewardship programs in New York State must not be accepted by the facility. Source-separated recyclables must only be accepted if the facility is also authorized as a recyclables handling and recovery facility under subpart 361-1 of this Title.	Section 3.1	NA	NA	NA	NA
362-3.5(b)	All tipping, sorting, processing, compaction, storage, loading, and related activities, which the exception of those at residential drop-off locations for non-commercial customers, must be conducted in an enclosed building with adequate odor controls to effectively control off-site nuisances. Nonputrescible waste may be stored in outdoor areas if it is stored in closed containers or covered trailers.	Section 4.2 & 6.6	NA	NA	NA	Sheets 6, 9 & 10
362-3.5(c)	The processing, storage, loading, and unloading areas must be constructed of concrete or asphalt paving material and must be equipped with adequate drainage structures that are directed to enclosed tanks that meet the requirements of subdivision 360.19(n) of this Title or a sanitary sewer system.	Section 4.2.2 & 4.2.3	NA	NA	NA	Sheets 6, 9 & 10
362-3.5(d)	The tipping floor must be cleaned at the end of each operating day unless otherwise determined by the Department.	Section 4.1.2 & 6.9	NA	Appendix C	NA	NA
362-3.5(e)	Radioactive waste detection procedures and requirements.					
362-3.5(e)(1)	A fixed radiation detection unit must be installed and operated at a location appropriate for the monitoring of all incoming waste.	Section 3.6.4	NA	NA	NA	NA
362-3.5(e)(2)	The investigation alarm set point of the radiation detector must be set at least 2 times, but no greater than 5 times, facility background radiation levels.	Section 7.0	NA	NA	NA	NA

TABLE 3
REGULATORY SUMMARY TABLE FOR ENGINEERING REPORT FOR PERMIT MODIFICATION
6 NYCRR PART 362-3 TRANSFER FACILITIES
IWS TRANSFER SYSTEMS OF NY, INC. - GOSHEN TRANSFER STATION FACILITY
95 HARTLEY ROAD, GOSHEN, NY 10924

SECTION	REQUIREMENT/REGULATION	TEXT	TABLES	APPENDIX	FIGURES	PLANS
362-3.5(e)(3)	Background radiation readings at the facility must be measured and recorded at least daily.	Section 7.0	NA	NA	NA	NA
362-3.5(e)(4)	Field checks of the radiation detector utilizing a known radiation source must be performed and recorded at least weekly.	Section 7.0	NA	NA	NA	NA
362-3.5(e)(5)	The radiation detector must be calibrated at least annually or more often as recommended by the manufacturer, and documentation describing the calibration must be maintained at the facility.	Section 7.0	NA	NA	NA	NA
362-3.5(e)(6)	Each instance in which the radiation detector is triggered by a waste load must be documented and reported to the department within 24 hours. Recorded information must include the date the waste was received, transporter name, origin of the waste, truck number or other identifying marking, detector reading, disposition of the waste, and date of disposition.	Section 7.0	NA	NA	NA	NA
362-3.5(e)(7)	Training related to radiation detection system operating procedures and radiation investigation alarm response procedures must be conducted at least annually.	Section 7.0	NA	NA	NA	NA
362-3.5(f)	All putrescible waste must be removed from the transfer facility by the end of the next business day after the transfer container becomes full or within seven calendar days of receipt, whichever comes first.	Section 6.9	NA	NA	NA	NA
362-3.5(g)(1)-(3)	Any friable asbestos-containing waste accepted at the facility must be managed in accordance with the facility's waste control plan.	Section 3.1	NA	NA	NA	NA
362-3.5(h)	All waste delivered to and leaving the facility, with the exemption of wastes delivered by non-commercial vehicles to residential drop-off areas, must be weighed and recorded in tons.	Section 3.6.4 & 4.2.2	NA	NA	NA	NA
362-3.5(i)	A permitted facility must maintain financial assurance in an amount sufficient to cover the cost of closure of the facility as specified by 360.22 of this title.	Section 2.4	NA	NA	NA	NA
362-3.6 Recordkeeping and reporting requirements.						
362-3.6(a)	In addition to the recordkeeping requirements of subdivision 360.19(k) of this Title, transfer facility records must include records associated with the radioactive waste detection procedures required by subdivision 362-3.5(e) of this Subpart, if applicable.	Section 10.0	NA	NA	NA	NA
362-3.6(b)	Transfer facilities registered or permitted pursuant to this Subpart must submit an annual report in conformance with paragraph 360.19(k)(3) of this Title.	Section 10.0	NA	NA	NA	NA

1.0 INTRODUCTION

1.1 PURPOSE AND OBJECTIVE

This Engineering Report (Report) has been prepared to demonstrate compliance of the Goshen Transfer Station (TS or Facility) with the operational requirements of 6 NYCRR Part 360 and provide operational guidelines to be implemented and followed upon approval by the New York State Department of Environmental Conservation (NYSDEC). As part of the NYSDEC Part 360 Series Solid Waste Management Facilities Permit Application (Permit Application) process, this Report and supporting documentation has been compiled for review and approval by the NYSDEC.

The basic objectives of this Report are as follows:

- To protect public health and the environment by ensuring that wastes are properly managed at the Facility in accordance with applicable federal, state and local laws and Facility permits.
- To protect employee health and safety by adopting and adhering to acknowledged industry standards concerning Facility operations.

A copy of this Report shall be maintained at the Facility for use and reference by its personnel. This Report will also be made available, upon request, for inspection and review by agencies having jurisdiction over the Facility and/or its operation(s).

1.2 CONSISTENCY WITH SOLID WASTE MANAGEMENT PLAN

New York State's Beyond Waste Plan sets forth a new path for solid waste management. The plan shifts from a perspective of focusing on "end-of-the-pipe" waste management techniques to looking "upstream" and more comprehensively at how materials that would otherwise become waste can be more sustainably managed through the state's economy. This shift is central to the state's ability to adapt to an age of growing pressure to reduce demand for energy, reduce dependence on disposal, minimize emission of greenhouse gases and create green employment jobs.

The Goshen Facility accepts Municipal Solid Waste (MSW) and Construction and Demolition Debris (C&D) Debris. The Facility no longer handles recyclable materials, which are now transported to the Millennium Material Recovery Facility (MRF) in Airmont, New York for processing. IWS is committed to divert materials from thermal treatment and disposal by culling recyclables from tipped C&D debris. The NYSDEC is committed to sustain and manage resources, the environment and economic competitiveness by placing emphasis on waste reduction and recycling, while providing an equitable waste management infrastructure where the needs of its residents, businesses and industry are met. The Goshen Transfer Station Facility meets these commitments.

1.3 6 NYCRR PART 360 PROHIBITED SITING

As identified by 6 NYCRR Part 360.8, solid waste facilities (*with certain exceptions*) may not be constructed or expanded within areas of the following classification:

- Special flood hazard areas.
- Areas where habitats of threatened or endangered species of plants and/or wildlife are known to exist.
- Areas containing regulated wetlands.

The existing TS and proposed building addition will not be sited in an area with the characteristics listed above, and therefore will not be located in a prohibited area. Sheet No. 4, "Zoning and Land Use Map" depicts the locations of nearby areas exhibiting these characteristics, if any.

1.4 NYSDEC SUBMITTAL REQUIREMENTS

As per General Condition 3, Applications for Permit Renewals, Modifications or Transfer of the Facility's existing Solid Waste Management Facility Permit (SWMF Permit) shall be submitted to the following:

Regional Permit Administrator
New York State Department of Environmental Conservation
Region 3 Headquarters
21 South Putt Corners Road
New Paltz, New York 12561-1620

All other submission required by the Facility's SWF Permit shall be submitted to the above address as well to the following address:

Bureau of Permitting and Planning
Division of Materials Management
New York State Department of Environmental Conservation
625 Broadway, 9th Floor
Albany, New York 12233-7258

1.5 APPLICATION FOR A SOLID WASTE MANAGEMENT FACILITY

IWS holds the current SWMF Permit (3-3330-00094/00001) for the Goshen Transfer Station located at 95 Hartley Road, Goshen, NY 10924. IWS is the Facility Owner and Operator. The current SWMF Permit expires on September 25, 2024. Appendix A includes the completed Application for a Solid Waste Management Facility Permit and also Record of Compliance Forms.

2.0 REGULATORY OVERVIEW

2.1 PERMITTING AND ENVIRONMENTAL ASSESSMENT

This section identifies and briefly discusses the relevant environmental regulations applicable to the proposed operations of receiving and processing solid waste at the Facility. The Facility currently holds SWMF Permit ID 3-3330-00094/00001 that was last renewed by the NYSDEC on September 26, 2019 and expiration date of September 25, 2024. A copy of the existing Solid Waste Management Facility Permit is included in Appendix A of the Facility Manual.

The Facility is permitted to receive waste from 7:00 AM to 3:30 PM, Monday through Friday and from 7:00 AM to 12:00 PM on Saturday. The Facility may conduct process waste between 7:00 AM to 6:00 PM Monday through Friday and from 7:00 AM to 12:00 PM on Saturday. The current NYSDEC Permit allows the Facility to accept a daily maximum capacity of 600 tons per day of MSW and C&D debris and up to 70 tons per day of dual stream recyclables. IWS is requesting that the 70 tons per day of recyclables be converted into 70 tons per day of MSW and C&D Debris, resulting in a daily maximum permitted capacity of 670 tons per day. No modification to the currently permitted hours is proposed.

Permit applications are reviewed in accordance with the New York State Environmental Quality Review Act (SEQR) (6 NYCRR Part 617), and the Uniform Procedures Act (6 NYCRR Part 621). The following Sections describe these requirements and how they pertain to the proposed Facility.

2.2 STATE ENVIRONMENTAL QUALITY REVIEW (SEQR)

SEQR requires that all State, regional, and local government agencies determine whether certain actions, such as the issuance of a 6 NYCRR Part 360 Permit to construct or operate a solid waste management facility, may have a significant impact on the environment. If it is determined that the action may have a significant adverse impact, SEQR requires the preparation of an environmental impact statement (EIS). Regulations implementing SEQR are contained in 6 NYCRR Part 617.

As part of the process to determine whether the proposed Facility will have a significant adverse impact, a Full Environmental Assessment Form (EAF) was prepared and submitted to the Town of Goshen Planning Board as part of the site plan approval process. The Facility was deemed to have no significant adverse environmental impact and a Negative Declaration was declared in June 2023. A copy of the SEQR documents will be included in Appendix B once finalized by the Town of Goshen Planning Board.

2.3 UNIFORM PROCEDURES ACT

The Uniform Procedures Act and the associated Permit Hearing Procedures (*6 NYCRR Parts 621 and 624, respectively*) clearly set forth timetables for the review and approval of environmental permit applications. Under the Uniform Procedures Act, the review process for projects requiring multiple NYSDEC approvals and/or permits is simplified via a concurrent review of applications. The following listing details NYSDEC environmental regulations and permit requirements, as they apply to this Facility.

<u>Protection of Water Permits</u>		
• Disturbance of Bed or Banks of a Protected Stream or Other Watercourse		Not Applicable
• Construction, Reconstruction or Repair of Dams and Other Impoundment Structures		Not Applicable
• Construction, Reconstruction or Expansion of Docking and Mooring Facilities		Not Applicable
• Dredge and Fill of Navigable Waters		Not Applicable
• Excavation or Placement of Fill in Navigable Waters and Their Adjacent and Contiguous Wetlands		Not Applicable
• Water Quality Certification for Placing Fill or Undertaking Activities Resulting in a Discharge to Waters of the United States		Not Applicable
• Coastal Erosion Management Permits		Not Applicable
• Freshwater Wetlands Permits		Not Applicable
• Tidal Wetlands Permits		Not Applicable
• Wild, Scenic and Recreational Rivers Permits		Not Applicable
<u>Wastewater, Stormwater & Water Withdrawal</u>		
• State Pollutant Discharge Elimination System (SPDES)		Not Applicable
• Stormwater - SPDES Multi-Sector General Permit for Stormwater Discharges from Industrial Activity		Applicable
• Stormwater - SPDES General Permit for Stormwater Discharges from Construction Activity - GP-0-15-002		Not Applicable
• Water Withdrawal Permits		Not Applicable
• Long Island Well Permits		Not Applicable
<u>Air Permits and Registrations</u>		
• Air Facility Permits (Air State Facility Permits or Air Title V (ATV) Facility Permits)		Not Applicable
• Air Facility Registrations		Not Applicable
<u>Mineral Resources</u>		
• Mined Land Reclamation Permits		Not Applicable

Waste Management, Composting & Recycling Permits		
• Solid Waste Management Permits		Applicable
• Hazardous Waste Management Permits		Not Applicable
• Radiation Control		Not Applicable

The Facility is permitted under existing 6 NYCRR Part 360 Permit No. 3-3330-00094 valid through September 25, 2024.

2.4 FINANCIAL SURETY

As per Solid Waste Management Permit Condition No. 35 of the existing SWMF Permit, IWS maintains financial surety in the amount of \$195,000 in favor of the New York State Department of Environmental Conservation. A copy of the existing surety bond is included in Appendix B in the Facility Manual.

2.5 APPLICABILITY OF 6 NYCRR PART 360 SERIES REGULATIONS

Proposed activities including operation of a transfer station and the associated recyclables handling and recovery are regulated under 6 NYCRR Part 360, Subpart 361-5, Construction and Demolition Debris Handling and Recovery Facilities and Subpart 362-3, Transfer Facilities.

2.6 CLIMATE LEADERSHIP AND COMMUNITY PROTECTION ACT

The proposed Facility modification will include only the construction of an addition to the existing Transfer Station building to realize improved environmental controls and is not proposing changes to the currently permitted capacity, waste types, or operating hours.

Therefore, this Application proposes no modification to vehicle counts, types, or routing and is not subject to the clauses within the Climate Leadership and Community Protection Act (CLCPA).

2.7 COMMUNITY RISK AND RESILIENCY ACT (CRRA)

Section 9 of the CLCPA added a requirement to the existing Community Risk and Resiliency Act (CRRA) that applicants for “major permits” under ECL Article 70, such as this Permit Renewal and Modification Application, must “demonstrate that future physical climate risk has been considered.” Physical climate risks potentially relevant to this Facility modification and which could potentially impact the Facility include flooding, greater rainfall volumes, increased temperatures and heat waves, and power outages. These potential impacts have been considered in the following sections.

2.7.1 Future Flood Risk

The *New York State Flood Risk Management Guidance for Implementation of the Community Risk and Resiliency Act* document provides guidance for assessing future physical climate risk due to sea-level rise, storm surge, and flooding. In accordance with the methods outlined in this document, extreme flood events were assessed for this project and will not have a significant impact on the proposed modification project.

Table 2 in the referenced document provides an appropriate method to assess flood hazards areas for structures:

- *The elevation and horizontal flood-hazard area that result from adding two feet (three feet for critical facilities) of freeboard to the base flood elevation (BFE) and extending this level to its intersection with the ground. The document defines the BFE as “the elevation of surface water that has a 1-percent chance of being equaled or exceeded in any year, commonly known as the 100-year flood.” Given the definition of critical infrastructure given on page 25 of the document, the analysis for this project was completed by adding three feet of freeboard to the BFE.*

The document further states that the “BFE used in design planning should be the highest of any BFE on the project site, as indicated by a FIRM and accompanying effective flood insurance study (FIS), a FEMA preliminary or advisory FIRM and accompanying FIS, or an engineering analysis of current conditions using accepted hydrologic and hydraulic engineering techniques...Applicants and programs should ensure they use the most recent flood-risk information available.”

As further described in Section 3.4, the Facility is mapped on FEMA Flood Insurance Rate Map (FIRM) Map Number 36071C0269E, last revised on August 3, 2009, the Facility is located in Zone X, areas determined to be outside the 0.2% annual chance floodplain. Furthermore, the finished floor elevation of the tipping floor of the Facility is approximately 410 feet, which is over 30 feet higher the mapped flood zone that is situated on the eastern side of Hartley Road.

2.7.2 Greater Rainfall Volumes

Consistent with the methodology outlined in the document titled *Observed and Projected Climate Change in New York: An Overview*, NYSDEC 2021, projected rainfall volumes have been assessed and will not have a significant impact on the proposed development. The existing ground surface where the proposed building addition will be constructed is currently impervious, so there will be no increase in the impervious surface area at the Facility as a result of this project and there will not be a change to stormwater runoff as a result of this modification.

2.7.3 Increased Temperatures and Heat Waves

Increased average temperatures, and more frequent extreme heat days and heat waves will have minimal impact on Facility operations. All waste tipping and handling operations will continue to occur indoors. The modified Transfer Station Building will contain a Dust and Odor Control System, further described in Section 4.9.2 of the Facility Manual, to mitigate odors associated with waste during periods of high heat. The proposed Building modifications will also be equipped with a ventilation system consisting of exhaust fans and intake louvers to mitigate the harmful effects of dust and odor on employees and customers, during all weather conditions. The Facility Manual prepared in conjunction with this Engineering Report contains information on the signs of heat stress and heat-related illnesses in the basic safety training provided to all employees. Additionally, during periods of excessive heat, mobile equipment operation will be closely monitored to ensure that no single piece of equipment is being unnecessarily taxed or over utilized to prevent breakdown or risk to equipment operator.

3.0 SITE INFORMATION

3.1 BACKGROUND

The Facility currently holds SWMF Permit #3-3330-00094/00001 that was issued by the NYSDEC on September 26, 2019 and will expire on September 25, 2024. A copy of the existing Solid Waste Facility Permit is included in Appendix A in the Facility Manual.

The NYSDEC permits the Facility to receive waste during the following periods:

- Monday through Friday: 7:00 A.M. to 3:30 P.M.
- Saturday: 7:00 A.M. to 12:00 P.M. (Noon)

The NYSDEC permits the Facility to process waste during the following periods:

- Monday through Friday: 7:00 A.M. to 6:00 P.M.
- Saturday: 7:00 A.M. to 12:00 P.M. (Noon)

The Facility may process waste from 7:00 A.M. to 7:00 P.M. ONLY for the two (2) operating days immediately after Memorial Day, Independence Day, and Labor Day.

All receipt, delivery, or other operations are prohibited on all Sundays.

The Facility may not operate on the following New York State Holidays: New Year's Day, Memorial Day, Independence Day (4th of July), Labor Day, Thanksgiving, and Christmas, unless otherwise authorized by the NYSDEC.

Fully loaded trailers or rail canisters may be picked up at the Facility for shipment off-site before and after the operational hours listed above, provided no other solid waste handling activity takes place at the Facility and that a log of such activities is maintained and submitted with the annual report. The trailers will be weighed and the tonnage included in the daily tonnage limits and recordkeeping requirements for the Facility.

The current NYSDEC Permit allows the Facility to accept C&D debris and (MSW at a maximum combined rate of 600 tons per day. The Facility may also accept Source-Separated Recyclables (SSR) at a maximum of 70 tons per day.

Daily activities include the receipt, initial inspection, and weighing of Tipping Vehicles; tipping of solid waste onto the Tipping Floor; inspection of tipped materials; transfer of materials to Transfer Trailers, and daily transportation and disposal of residual wastes to various disposal facilities. The degree of recycling and separation is variable as it is dependent on waste composition and the effectiveness of manual removal.

The Facility is prohibited from accepting friable asbestos waste as defined as follows:

Friable asbestos-containing waste means any waste containing greater than one percent asbestos that can be crumbled, pulverized, or reduced to powder by hand pressure when dry; and any asbestos-containing waste that is collected in a pollution control device designed to remove asbestos. This definition does not include friable asbestos-containing wastes that are discarded by a household. However, C&D debris which contains minor amounts of non-friable asbestos, and which is not categorized as asbestos waste by Part 360, may be accepted but may not be pulverized, shredded, ground, or handled in any manner that causes the material to become airborne or friable.

The Facility is not authorized to accept tires in bulk but may accept tires which are incidental to incoming loads of MSW. The tires shall be separated from the MSW and stored separately in enclosed containers prior to shipment to a facility authorized to accept bulk tires. The Facility may store up to 1,000 waste tires on site in closed containers.

Hazardous waste, liquid waste, regulated medical waste, and other such materials are not accepted at the Facility.

3.2 CONTACT INFORMATION

3.2.1 Name and Address of Facility Owner, Operator and Property Owner

I.W.S. Transfer Systems of N.Y., Inc.
89 Black Meadow Road
Chester, New York 10918
Contact: (845) 572-3373

3.3 PROPOSED FACILITY MODIFICATION

IWS will be constructing a 9,345 square foot addition to the Transfer Building along with a 432 square foot mechanical and electrical room for housing the fire water pump and electrical equipment for the Transfer Station. The proposed addition to the TS building will include a new loadout tunnel that will be equipped with a truck scale and tarping rack. The existing tarping rack located adjacent to the Maintenance Shop/Offices building will be removed.

The curb cut at the Facility entrance on Hartley Road will be extended to 75 feet for easier access of trucks travelling in and out of the Facility.

Leachate from the proposed addition will be directed into a new dual-walled underground leachate storage tank. The water for the fire suppression system in the proposed TS Building will be provided via a new 65,000-gallon Aboveground Water Storage and Supply Tank.

IWS has previously submitted a permit modification requesting that the 70 TPD of source-separated recyclables be converted to MSW and C&D Debris which will allow the Facility to accept up to 670 TPD of MSW and C&D Debris under Part 362-3, or a maximum of 570 TPD of MSW and a maximum of 100 TPD of C&D when the Facility is operating under both Part 362-3 as a Transfer Facility and Part 361-5 as Construction and Demolition Debris Handling and Recovery Facilities. Recyclable materials are now directed to the IWS MRF located in Airmont, New York. As such, IWS is requesting the currently permitted 70 TPD to be converted into MSW and C&D Debris.

The upgraded Facility has received local approval from the Town of Goshen Planning Board, dependent on approval from NYSDEC.

The Facility Plans to continue operations during construction of the addition. Once the addition has been completed, the operations will be moved into the TS Building addition area while modifications will be completed to the existing TS Building. These modifications will include filling in the existing loadout tunnels, installation of overhead doors at the three (3) existing loading bays and installation of two (2) new overhead doors on the western side of the existing TS Building.

3.4 LOCATION AND PROPERTY BOUNDARIES

The Facility is located at 95 Hartley Road in Goshen, New York. Refer to Figure 1, Site Location Map. The 3-acre Site is located on Section 12, Block 1, Lot 21.21 in the Town of Goshen and is situated in the I, Industrial Zoning District. Operation of a solid waste management Facility requires a special use permit from the Town of Goshen. The site location is shown on Sheet No. 1, "Regional Map" and Sheet No. 2, "Vicinity Map" and on Figure 1, "Site Location Map".

The Facility is bounded to the north, south and west by other tax parcels zoned I. A portion of the Amy's Kitchen organic and vegetarian meals manufacturing facility is currently being constructed to the north of the Facility and to

the west on the opposite side of the Walkill River. The closed Al Turi Landfill is located to the south and west of the Facility. Property located across Harley Road to the east is zoned CO, Commercial/Office Mixed-Use. IWS owns the parcel directly across the street which is used for vehicle and container storage. On Time Disposal and HiG Fabrications are also located across Hartley Road to the east of the Facility. On Time Disposal provides roll-off container rentals to customers, HiG fabricates automobile chassis and parts for race cars.

As per FEMA Map Panel 269 of 630 (No. 36071C0269E), last revised on August 3, 2009, the Facility is located in Zone X, areas determined to be outside the 0.2% annual chance floodplain. The Facility is not located in or adjacent to a NYSDEC or Federal wetland.

3.5 SITE ACCESS AND SECURITY

Access and egress to the Facility is from a single access location along Hartley Road. Only those vehicles transporting solid waste in covered vehicles or confined vehicles will be allowed access to the Facility. Access to the TS receiving and processing areas is restricted to authorized personnel. At the close of business hours all doors and the access gate is secured and locked to prevent unauthorized access and to preclude illegal dumping.

3.5.1 Visitors

Visitors must sign in and sign out in the existing Office. Because of the nature of activities at the Facility, anyone entering the site must receive sufficient instruction to understand the operation and utilize appropriate safety and protective measures. Visitors will not be left unattended and will be escorted whenever entering the waste handling area. Visitors will be provided with the necessary PPE when they enter the Facility, which is subsequently returned prior to departing the Facility.

3.5.2 Signs

Signage is conspicuously posted at the entrance to the Facility along Hartley Road detailing the operator name, address of the Facility, hours of operation, types of wastes accepted and not accepted, regular business and emergency phone numbers, NYSDEC permit numbers, and complaint telephone numbers.

Additional information on the vehicle traffic at the Facility, as well as traveling to and from the site, is discussed in Section 6.5.1, "Traffic Routes To and From the Facility".

3.6 EXISTING FACILITY

There is one (1) truck scale located within the site that is situated adjacent to the Maintenance Shop/Offices. The Scale Operator sits inside the Maintenance Shop/Offices and is also the location of the scale instrumentation and data management equipment for the scale.

The transfer station building is approximately 111 feet by 88 feet. The existing building has three (3) openings for vehicle tipping which are in the center of the building and one (1) opening to each Transfer Trailer Loading Pit (Pits A and B) which are on the ends of the building, one at the north end and the other on the south end of the building. There is a concrete pad adjacent to the north and south side of the transfer station is used for trailer staging. The north concrete pad occupies approximately 2,100 square feet and the south concrete pad occupies approximately 1,574 square feet. Liquids contacting each concrete pad are drained via gravity into a double-walled underground leachate storage tank. The leachate tank is pumped as needed, depending on precipitation, with the leachate removed for treatment to a licensed wastewater treatment plant.

There is an elevated tarping rack located adjacent to the Maintenance Shop/Offices which is utilized to tarp loaded transfer trailers prior to exiting the site.

3.6.1 Utilities

Electrical Services to the Facility is provided by Orange and Rockland Utilities, Inc. Water is supplied to the Facility by a private well. The Facility maintains two (2) fully functioning restrooms and two (2) restrooms that are currently not in use. The two (2) fully functioning restrooms are situated on the first floor of the Office Area building. The two (2) restrooms that are currently closed are located on the second floor of the Office Area building, which is also not in use.

Water for operational and fire protection, which is located at several locations within the Facility, will be provided by a proposed 65,000-gallon storage and supply tank. This tank will initially be filled via a commercial water truck. Periodically, the tank will be filled via the groundwater well and pumps located on site. The Location of this tank is shown on Sheet No. 6, "Proposed Site Plan."

Sanitary wastewater from the Facility is discharged into an on-site holding tank which is located on the southwestern side of the Office Area building. The holding tank is emptied on a regular basis by a licensed hauler for offsite treatment.

Leachate generated within the TS Building will be directed toward the Loadout Tunnel via slopped floors and directed via vertical scuppers on the interior wall of the Loadout Tunnel and collected via floor drains in the Loadout Tunnel and conveyed via dual-walled gravity pipe to a proposed underground, dual-walled leachate storage tank situated outside of the TS along the southern end of the building. Leachate from the western portion of the TS Building will also be collected and directed via dual-walled gravity pipe to the existing underground, dual-walled leachate storage tank on the west side of the existing TS Building.

3.6.2 Stormwater Management

The current stormwater management for site is primarily overland flow to catch basins located along the eastern fence line where the stormwater is discharged into an existing drainage channel. Roof drains from the existing Transfer Station building are discharged to the west where there is an existing culvert that conveys stormwater runoff from off-site underneath the existing Transfer Station building to an existing drainage channel situate to the east of the Site.

3.6.3 Recycling Area Building

The existing Recycling Area structure is approximately 3,000 square feet and will be demolished as part of this modification. Currently, the existing 500-gallon and a 2,000-gallon aboveground dual-wall diesel fuel tanks that are used for fueling the on-site mobile equipment are located in the Building. These tanks are both registered with the NYSDEC. Following construction of the Transfer Station addition, these existing fuel tanks will be relocated to an area adjacent to the west side of the Maintenance Building.

3.6.4 Scale

There is one (1) Truck Scale located at this Facility which is situated adjacent to the Office Area Building. The Truck Scale is a Mettler Toledo scale, Model 7562. A Radiation Detection System, Ludlum Measurements, Inc., Model 44-99 Gamma Scintillator, is situated at the scale which is used to detect radioactive materials that may be in the Tipping Vehicles.

The location and orientation of the Truck Scale is depicted on Sheet No. 5, "Existing Site Plan" and Sheet No. 6, "Proposed Site Plan." Specifications for the above piece of equipment can be found in Appendix D in the accompanying Facility Manual.

4.0 FACILITY DESCRIPTION

4.1 FACILITY DESIGN CAPACITY

The Proposed Transfer Station configuration has been designed with a material handling capacity in excess of the existing inbound material rate of 670 TPD of a combination of MSW and C&D. As demonstrated by the Throughput Capacity Calculations and Truck Queuing Model, both of which are described below and included in Appendix C of this Report, projected waste processing and vehicle traffic at this operating capacity will be easily accommodated by the TS Building and Facility layout.

4.1.1 Throughput Capacity Calculations

The Proposed Transfer Station configuration will include approximately 17,205 square feet for Tipping Vehicle unloading, material processing, and material storage on the Tipping Floor. Transfer Trailer loading and tarping operations will take place in the approximately 1,420 square foot Loadout Tunnel. The Tipping Floor and Loadout Tunnel comprise the TS Building operational areas. The remaining 390 square feet of the TS Building consists of the Mechanical and Electrical Room.

The following analyses have been performed to support the proposed floor space available within the TS Building for materials processing and storage, based on historical tipping records and the existing permitted capacity of 690 tpd. Further detail is presented within Appendix C.

4.1.2 Surge Pile Analysis

Floor space requirement calculations, as they relate to material handling operations and the design tonnage, are discussed in this report section. The areas discussed below are presented on Sheet No. 9, "Proposed General Arrangement Floor Plan."

A Surge Pile Analysis (included within Appendix C) was performed to illustrate the ability of the Proposed Transfer Station configuration to receive and process the maximum capacity of 670 tpd during a peak operating day. The analysis utilized historic peak data for incoming waste and average vehicle tonnage to calculate the projected rate of waste processing, as further detailed within the Surge Pile Analysis.

The analysis concluded that on a peak operating day, assuming simultaneous tipping and waste transfer, the maximum anticipated surge pile resultant from the 670 tpd capacity of MSW and C&D would equal a total of 642 cubic yards or approximately 180 tons, assuming an on-floor waste density of 560 pounds per cubic yard.

These analyses also illustrated that surge piles will not be carried over from the previous day, and therefore the Tipping Floor would be clean at the end of each operating day. Figure 2, "Tipping Floor Emergency Storage Pile Volume" illustrates a surge piles described above.

Appendix C of this Report also presents calculations for the maximum anticipated surge pile resultant from 670 tpd capacity of MSW and C&D would equal 642 cubic yards or approximately 180 tons. Figure 3, "Tipping Floor Operational Surge Pile Volume" demonstrates this projected MSW and C&D surge pile under proposed operating conditions.

Material will be stored in accordance with Section 6.9, "Material Storage" of this Report, which further details acceptable storage conditions and durations for materials accepted at the Facility. The Tipping Floor will be cleared of all waste at the end of each operating day, so that no unprocessed waste materials are stored within the TS overnight.

4.1.3 Truck Queuing Model

The Truck Queuing Model, included within Appendix C, demonstrates the Facility's capacity to process Tipping Vehicles accessing the Facility, from scaling through unloading within the TS Building. The peak hourly inbound truck rate of 17 tipping vehicles per hour occurs between 2:00 PM and 3:00 PM (*as further detailed within the Throughput Capacity Calculations memo*).

As demonstrated in Appendix C, seventeen (17) Tipping Vehicles arriving per hour utilizing the four (4) available tipping slots with a ten (10) minute cycle time results in a maximum of ten (10) Tipping Vehicles on site at one time, by applying a Poisson Distribution. Four (4) of these Tipping Vehicles will be located within the tipping slots, and six (6) Tipping Vehicles will be waiting in the queue during peak projected operating conditions. As demonstrated in the Figure 4, "Queuing – Operational Site Plan", there is sufficient space available for the peak projected Tipping Vehicle queue in the area east of the tipping bays of the TS.

The Truck Queuing Analysis calculations demonstrate the Facility's capacity to process Tipping Vehicles accessing the Facility, from pre-scale queuing through unloading within the TS Building. Queuing areas are available directly following the existing Truck Scale. The Tipping Vehicle travel paths and available queuing locations are depicted on Sheet No. 7, "Proposed Vehicle Circulation Plan" of the Engineering Drawings.

4.2 TRANSFER STATION BUILDING ADDITION

The Proposed Transfer Station configuration will house the Facility's operational areas, including waste tipping, handling, and processing activities. The following subsections detail design aspects of the structures and equipment proposed to support material processing operations within the Proposed Transfer Station configuration.

4.2.1 Operational Area Building Structure

The proposed TS Building addition will be a pre-engineered steel structure constructed atop a reinforced concrete foundation of suitable strength and of adequate drainage capability. The support for the insulated steel siding and insulated steel roofing of the building will be provided by steel girts and purlins which will in turn be supported by steel frames (columns and beams) spaced on twenty-five foot (25') and thirty foot (30') centers. These frames will produce a clear span between the exterior walls to provide floor space that is not impinged upon by interior columns. The top of the ridge will be approximately at elevation 438.5', and will run from the northwest side of the building to the southeast side. The roof will be constructed with a slope of one-quarter (1/2) vertical to twelve (12) horizontal.

The lower twelve feet (12') of select building walls in the Tipping Floor area will be constructed with concrete to serve as pushwalls. A three and one-half foot (3.5') concrete knee wall will be constructed to divide portions of the Tipping Floor from the Loadout Tunnel, to facilitate trailer loading. Metal wall panels would be installed around the building's exterior, with a band of translucent panels along the upper portion of the walls to provide light inside of the building, as depicted on Sheet No. 11, "Proposed Elevations" and Sheet No. 12, "Proposed Elevations".

Metal panels will be installed as the roofing material for the proposed TS Building addition. The exterior of the TS Building will be fitted with adequately sized roof gutters and downspouts to control runoff from the roof of the building. Downspouts will be connected to the Stormwater Collection System, as described in Section 3.6.2, "Stormwater Management".

Access to the TS Tipping Floor will be provided by eight (8) vehicular door openings which can be utilized for inbound Tipping Vehicles. Tipping Vehicles will typically utilize two (2) vehicular door openings that will be twenty-six foot (26') wide by twenty-seven foot (27) high located on the eastern side of the TS Building. Tipping Vehicles will typically exist the TS Tipping Floor via a proposed twenty-six foot (26') wide by twenty-seven foot (27) high located on the western side of the building addition.

Door openings will be protected by concrete filled pipe bollards at the interior and exterior of each opening, as necessary. Man doors will be located to provide employee access to the TS Building per life safety and building code requirements. These features are depicted on Sheet No. 9, "Proposed General Arrangement Floor Plan."

4.2.2 Loading Area

The southwest side of the TS Building will be equipped with a partial grade separation, back-in Loadout Tunnel to allow a Transfer Trailer to be loaded inside of the TS Building in a dedicated area separate from the Tipping Floor. The Loadout Tunnel will be constructed of concrete. The Transfer Trailer loading position within the Loadout Tunnel will be equipped with a certified Loadout Tunnel Scale to allow Equipment Operators to obtain accurate load and axle weights during loading operations. A digital readout will be mounted above the Loadout Tunnel Scale and will be observable to the Equipment Operators. These readouts will indicate individual Transfer Trailer axle weights (*or groupings of axles*), as well as total vehicle weight.

The Loadout Tunnel Scale will be equipped with removable scale decks and durable load cells that are designed for expedited cleaning of the shallow scale pit, to facilitate the removal of material that may accumulate during loading operations.

Leachate generated in the Loadout Tunnel will drain via sloped concrete floors to catch basins and sumps within the scale pits, for collection by the Leachate Management System, as described in Section 4.2.3, "Leachate Management System".

4.2.2.1 Tipping Floor and Loadout Tunnel

The Tipping Floor within the existing TS Building and proposed TS Building addition will have approximately 17,200 square feet of floor area. The Loadout Tunnel will have dimensions of approximately 88 feet by 16 feet.

The Tipping Floor and Loadout Tunnel floor will be constructed of reinforced concrete, designed to withstand the expected loads from material processing operations. The top of slab for the Tipping Floor will be poured to an approximate nominal elevation between 409.49' to 411.00', with the Loadout Tunnel floor approximately nominal elevation between 407.75' and 408.00' to facilitate efficient material loading operations.

Material handling operations will take place on the reinforced concrete Tipping Floor within the enclosed TS Building to guard against the potential of pollution, spills, or rinse water to contaminate soils or ground water. Drainage of leachate generated during material handling operations within the enclosed TS Building will be managed as described below and as depicted on the Engineering Drawings.

4.2.3 Leachate Management System

To ensure the collection of liquids that may be released during the waste handling and processing operations within the TS Building, the Tipping Floor within the proposed building addition will be constructed to slope inward from the door openings and pitch toward the push wall that divides the Tipping Floor from the Loadout Tunnel. Liquid that is not absorbed by the solid waste will be directed through two (2) push wall openings constructed at the base of the Tipping Floor push wall, flow down sixteen inch (16") wide vertical channels (inset approximately 1.5") in the Loadout Tunnel wall, and be conveyed to two (2) Loadout Tunnel catch basins via double containment piping to a double-walled underground leachate storage tank (HighGuard underground steel storage tank manufactured by Highland Tank, or equal).

Trench drains will be installed along the openings of the two proposed overhead doors on the eastern side of the existing TS building. Liquids collected in these trench drains will be directed via double containment piping to the existing a double-walled underground leachate storage tank.

This design approach to the collection and conveyance of liquids resultant from transfer station operations has a proven track record of optimizing the management of leachate while minimizing the maintenance requirements persistent to other approaches (i.e. floor drains and associated piping in the Tipping Floor area).

The liquid level in the leachate storage tank will be monitored daily by a Facility employee in accordance with the Facility Inspection Plan detailed within the Facility Manual. When each tank nears three-quarter (3/4) capacity, it will be evacuated by the Facility's permitted wastewater hauler. The leachate storage tank will also include a high level alarm system.

The layout of the Leachate Management System is depicted on Sheet No. 9, "Proposed General Arrangement Floor Plan," with details of the System included on Sheet No. 14, "Proposed Leachate Management Details."

4.2.4 Building Fire Protection System

Fire protection for existing TS Building and TS Building addition will be provided by a suspended "dry" sprinkler system that will consist of a ceiling mounted pipe network and sprinkler heads. The water supply for the sprinkler system will be provided via a 65,000 gallon above ground water storage and supply tank.

In addition, fire extinguishers will be located at numerous locations throughout the TS Building and Mechanical and Electrical Room. These fire extinguishers will be suitable for use on Class A, B, and C fires making them effective against fires involving wood, paper, cloth, rubber, plastics, flammable liquids, gases and greases, and for electrical components.

The locations of each fire protection device are shown on the Sheet No. 9, "Proposed General Arrangement Floor Plan".

4.2.5 Building HVAC

The Facility's Ventilation System will provide a minimum of six (6) building volume air changes per hour and serve to maintain negative air pressure within the Building. The existing TS Building and TS Building Addition will be equipped with a ventilation system consisting of exhaust fans and intake louvers, which will be located on the roof and sides of the Facility. The exhaust fans will be equipped with electrostatic filters in order to control the dust generated by the C&D debris. The building's Mechanical and Electrical Room will be heated using electric (or propane) heating units. Supporting calculations can be found in Appendix D of this Report.

4.2.6 Dust and Odor Control System

A high-pressure dust and odor control misting system will be installed within the ceiling structure of the proposed TS Building Addition. This system will include atomizing spray heads, set to discharge a combination of atomized water mixed with an odor neutralizing agent at timed intervals. The atomizing spray heads will be distributed to provide coverage over the Tipping Floor and at each of the exhaust fans. When combined with an odor neutralizing agent, the atomized discharge from the misting system will serve to absorb and/or eliminate odors while successfully mitigating dust emissions that may be generated as a result of the MSW or C&D debris processing operations.

4.2.7 Building Electrical Service

Electric service will be delivered to the Mechanical and Electrical Room where the necessary panel boards and electrical distribution equipment will be located.

Interior operational areas will be illuminated with lighting to provide a minimum sustained illumination level in accordance with local and state building codes. In addition to electrical lighting, a band of translucent panels will be installed along the upper portion of the walls to provide light inside of the building. Exterior operational areas will be equipped with lighting designed to minimize light scatter to the degree possible, and as per applicable codes.

4.3 SCALES

There is one Truck Scale situated at the Facility, as shown on Sheet No. 5, “Existing Site Plan” and Sheet No. 6, Proposed Site Plan. This scale is an existing scale and does not require relocation.

4.3.1 Loadout Scale

The Transfer Trailer loading position within the TS will be equipped with a certified Loadout Scale to allow Equipment Operators to obtain more accurate load weights during loading operations. Four (4) digital readouts will be mounted above the Loadout Scale and be observable to the Equipment Operators. These readouts will indicate individual Transfer Trailer axle weights (or groupings of axles), as well as total vehicle weight.

The Loadout Scale will be similar to the model presented in Appendix E, with removable scale decks and durable load cells that are designed for expedited cleaning of the shallow scale pit, to facilitate the removal of material that may accumulate during loading operations.

Leachate and rinse water generated in the Loadout Tunnel will drain via sloped concrete floors into sumps within the scale pits, for collection by the Leachate Management System, as described in Section 4.2.3, “Leachate Management System”.

The location and orientation of the Loadout Scale and Leachate Management System is depicted on Sheet No. 9, “Proposed General Arrangement Floor Plan,” with details of the scale pit sump and pipe included on Sheet No. 14, “Proposed Leachate Management Details.”

4.4 STORMWATER

The proposed modifications will result in the disturbance of less than 1 acre of land and will not result in an increase in impervious surface area since the area where the addition is to be constructed is currently paved. As such, no changes to the current stormwater collection system is required. Stormwater discharges from the site are currently managed in accordance with the site’s existing SPDES Multi-Sector General Permit (Permit I.D. No. NYR00F289). Required monitoring records are maintained at the Facility and filed in accordance with the MSGP.

4.5 FIRE PROTECTION SYSTEM

Fire protection for the TS Building will be provided by a suspended “dry” sprinkler system that will consist of a ceiling mounted pipe network and sprinkler heads. The water supply for the sprinkler system will be provided via a 65,000 gallon above ground water storage and supply tank.

In addition, fire extinguishers will be located at numerous locations throughout the TS Building and Electric Room. These fire extinguishers will be suitable for use on Class A, B, and C fires making them effective against fires involving wood, paper, cloth, rubber, plastics, flammable liquids, gases and greases, and for electrical components.

The locations of each fire protection device are shown on the Sheet No. 9, “Proposed General Arrangement Floor Plan”.

5.0 NOISE EVALUATION

Cornerstone performed a noise assessment for the Facility to evaluate the potential noise impacts the facility might have on the surrounding area in order to satisfy Special Condition No. 15 of the Facility's SWF Permit. Cornerstone staff recorded existing sound measurements produced by ambient noise levels on-site and in the vicinity of the site. The Facility is currently in use and is located on Hartley Road in the Town of Goshen, Orange County, New York. Measurements were taken from one location on-site and two locations along the property boundary along Hartley Road to evaluate sound levels at the point of generation at the Facility as well as at the property lines.

The goals of any project should include minimal increases in sound pressure levels above ambient levels at a chosen point relative to the receptor. Increases in the ambient sound levels from 0-3 dBA generally have no appreciable effect on receptors. Increases from 3-6 dBA may have the potential for adverse noise impacts, but typically only where the most sensitive receptors are present. Sound level increase of 6 dBA or more may require a closer analysis of impact potential depending on the existing sound levels and the character of the surrounding land uses and receptors.

5.1 SITE LOCATION

The Transfer Station is located at 95 Hartley Road, in the Town of Goshen, Orange County, New York, on a 3.0 acre parcel of land. The Facility is located approximately 1,250 feet north of the intersection of New York State Route 17M and Hartley Road. Access to the Facility is primarily from Route 17M.

According to the zoning criteria for the Town of Goshen, the Facility property is located in an Industrial District, as is virtually all of the land west/northwest of Hartley Road between Route 17M and Echo Lake Road. The property on the east side of Hartley Road is zoned for Commercial/Office Mixed-Use. The operation of the Facility is a non-conforming use, as solid waste management facilities are prohibited uses in all districts within the Town of Goshen. The site is bounded to the south and west by the closed Al Turi Landfill. The landfill gas to energy plant is located immediately adjacent to the west side of the Facility. The land to the north is the Amy's Kitchen facility, currently being constructed. To the east, across Hartley Road, - are two container storage yards and HiG Fabrications, a metals fabrication facility.

The nearest residential land use to the Facility is a single-family home and old farm located approximately 1,500 feet to the north on Hartley Road. No other residential properties are located within 2,400 feet of the Facility. Traffic sounds from Route 17M to the south and Route 17, over 1 mile to the north, were noted during the survey. The landfill gas to energy plant adjacent to the Facility is no longer operating.

The 6 NYCRR Part 360 sound pressure level (SPL) limits are provided as follows.

Character of Community within a 1-mile radius of Facility	Leq Energy Equivalent Sound Levels	
	7 AM - 10 PM	10 PM - 7AM
Rural	57 dBA	47 dBA
Suburban	62 dBA	52 dBA
Urban	67 dBA	57 dBA

Considering the existing land use in the vicinity of the Facility, the zoning designation for much of the area, and the location within the Town of Goshen, the character of the area is considered to be suburban in nature.

5.2 DESCRIPTION OF SOUND

Sound is any pressure variation (in air, water, or other medium) that the human ear can detect. The number of pressure variations per second is known as the frequency of the sound and is measured in cycles per second, or Hertz (Hz). Typical human hearing can detect sounds between 20 Hz to 20,000 Hz (20 kHz). The amplitude of a sound wave is equivalent to the sound pressure and therefore, the loudness of a sound increases as the pressure increases.

When conducting a noise study, the ambient noise levels, existing noise sources, and sound receptors in proximity to an activity are important factors to consider. Additionally, the topography, vegetation and the relative location of both the sound source and the receptors must be considered when assessing noise impacts. The expression of overall sound levels, as it relates to the listener, is a single value of sound over a period of time that provides an indicated average of the sound in an area (Leq).

The environmental effects of sound and human perceptions of sound can be described in terms of four (4) characteristics:

1. Sound Pressure Level (SPL) may also be designated by the symbol L_p or perceived loudness and is expressed in decibels (dB) or A-weighted decibel scale (dBA), which is weighted towards those portions of the frequency spectrum, between 20 and 20,000 Hz, to which the human ear is most sensitive. Both SPL and dBA measure sound pressure in the atmosphere.
2. Frequency (perceived as pitch) is the rate at which a sound source vibrates or makes the air vibrate.
3. Duration may be the recurring fluctuation in sound pressure or tone at an interval; sharp or startling noise at recurring interval; the temporal nature (continuous vs. intermittent) of sound.
4. Pure tone, which is comprised of a single frequency. Pure tones are relatively rare in nature but, if they do occur, they can be extremely annoying.

5.3 DESCRIPTION OF NOISE

Most sounds are mixtures of frequencies and amplitudes. The mixture of frequencies and amplitudes contributes to a particular sound having a characteristic “signature” and being clearly distinguishable from other sounds. Sounds that are considered annoying and unwanted are termed “noise.”

5.4 DECIBEL EQUIVALENCY

Sound measurement gives a clear indication of when a sound may be heard by the human ear. As such, it is the primary diagnostic tool used in evaluating requirements for acceptable community noise levels. Sound pressure levels, perceivable by the human ear fall within a very large range, which is difficult to manage due to the large numbers involved. The decibel scale simplifies this condition by compressing the million to one audible range into a 140 dB range. The decibel scale uses the hearing threshold of 20 micro pascals (a unit of pressure) as its starting point or reference pressure. This is defined as 0 dB. Each time the sound pressure in pascals is multiplied by 10, 20 dB are added to the decibel level.

Human hearing starts at 0 dBA (with 10 dBA being just audible) and goes up to 150 dBA, although at 130 dBA noise is considered painfully loud and speech is severely limited.

5.5 ATTENUATION

The intensity of a sound wave diminishes (attenuates) as it gets further from the source. This attenuation is due to a combination of factors: distance-being the length of path of transmission and the most important factor; absorption by surfaces such as vegetation, buildings, earth formations, etc.; atmospheric conditions such as fog, rain and snow; and the nature of the ground over which the transmission occurs.

The intensity of an unobstructed sound wave is reduced by 6 decibels each time the distance from the source is doubled, provided the source is not linear in nature. Therefore, a sound level of 70 dB at 50 feet would have a sound level of approximately 64 dB at 100 feet. At 200 feet from the same source, the sound would be perceived at a level of approximately 58 dB. Decibel level attenuation from linear sources, such as continuous flowing highway traffic, drops by about three decibels each time the distance from the source is doubled.

5.6 NOISE LEVELS

Sound pressure measurements obtained following the opening of the Transfer Station were typical of normal operating conditions. The activities occurring at the Facility during the survey included trucks and cars entering and leaving the Transfer Station, trucks unloading waste onto the Transfer Station tipping floor, and solid waste being transferred into transfer trailers using both a loader and an excavator.

Noise levels were recorded at 10-minute intervals over a 6 hour period on Wednesday, February 8, 2023. To obtain ambient sound levels SPL measurements were made between 5:15 AM and 6:59 AM (before the opening of the site). Sound levels were measured from the 3 monitoring locations included in the study during this time period, although some activity began after 5:00 AM at the Facility. Three addition SPL measurement sessions were obtained over 10-minute intervals at each of the monitoring locations between 7:00 AM and 10:00 AM during which the operations at the facility were underway.

Test Location	Distance from Site Boundary
1. Northeast corner of Transfer Station property along Hartley Road	At site boundary
2. Entrance to Facility	At site boundary
3. Vehicle maneuvering area	90 feet north of Transfer Station Building

The SPL measurements were obtained by Cornerstone using a Type 1 Digital Sound Level Meter manufactured by Quest Technologies (model SoundPro SE/DL). The average sound level at Location 1 during one of the monitoring periods (60.9 dBA) was the only offsite location with a SPL lower than the NYSDEC limit for suburban locations having residential uses. As all land uses in the area surrounding this Facility is industrial, the residential limits are not applicable. This location is at the property line near the entrance to the Facility and the SPLs recorded at this location were generally related to trucks entering and leaving the Facility as well as other traffic on Hartley Road. Ambient noise levels in industrial or commercial areas may exceed 65 dB with SPLs up to 79 dB (EPA 550/9-79-100, November 1979). Given the industrial use of the area and the SPLs identified, the Facility has no negative impact on the noise levels in the area.

The readings obtained at onsite Location 3 were elevated, up to 80.4 dBA, due to the close proximity to the operations of the Transfer Station. If these sound levels are attenuated, the measured SPL of 80.4 dBA at Location 3 would result in a SPL of approximately 50.9 dBA at nearest residence along Hartley Road, using only distance for sound attenuation which is less than the suburban limit for residential areas. As such, the residence on Hartley Road to the north of the Transfer Station is not impacted by noise generated from the Transfer Station operations.

In conclusion, based on the results of this noise assessment and the land use in the area, the Facility does not have any negative sound impacts on adjacent properties given the sound pressure levels present, the background noise

levels generated by the roadways in the area, and the land uses adjacent to the Transfer Station. Additionally, due to the distance to the nearest residential land use and the background noise conditions associated with traffic and road noise from Route 17 and 17M, sound levels generated at the Facility have no impact on residential land uses in the area.

6.0 OPERATING PLAN

6.1 HOURS OF OPERATION

The NYSDEC permits the Facility to receive waste during the following periods:

- Monday through Friday: 7:00 A.M. to 3:30 P.M.
- Saturday: 7:00 A.M. to 12:00 P.M. (Noon)

The NYSDEC permits the Facility to process waste during the following periods:

- Monday through Friday: 7:00 A.M. to 6:00 P.M.
- Saturday: 7:00 A.M. to 12:00 P.M. (Noon)

The Facility may process waste from 7:00 A.M. to 7:00 P.M. only on the two (2) operating days immediately after Memorial Day, Independence Day, and Labor Day.

All receipt, delivery, or other operations are prohibited on all Sundays.

The Facility may not operate on the following New York State Holidays: New Year's Day, Memorial Day, Independence Day (4th of July), Labor Day, Thanksgiving, and Christmas, unless otherwise authorized by the NYSDEC.

Fully loaded trailers may be picked up at the Facility; for shipment off-site before and after the operational hours listed above, provided no other solid waste handling activity takes place at the Facility and that a log of such activities is maintained and submitted with the annual report. The trailers must be weighed, and this tonnage must be included in the daily tonnage limits and recordkeeping requirements for the Facility.

Traffic generated by the handling of inbound empty Transfer Trailers or Rail Containers, the pickup of fully or partially loaded Transfer Trailers, and the movement of support vehicles for maintenance or repair on facilities and equipment will be acceptable outside of the authorized hours of operation. Any other operations (including trailer loading) outside of the hours of operation must first receive contingency approval from the NYSDEC Regional Materials Management Supervisor (RMMS).

6.2 SERVICE AREA

The Facility only accepts wastes as described within this Report and as authorized by the NYSDEC. The Facility accepts most of its waste materials from the Orange County, New York. It remains a priority of the Facility to continue to reduce solid waste volumes scheduled for landfill disposal through methods of recycling and material recovery.

The service area is depicted on Sheet No. 1, "Regional Map".

6.3 MATERIALS HANDLED

The material streams currently permitted at the Facility include MSW and C&D debris and Source-Separated Recyclables (SSR). It is a priority of IWS to continue to reduce solid waste volumes scheduled for landfill disposal through methods of recycling. The Facility is permitted to accept MSW and C&D debris up to a maximum combined rate of 600 TPD. With the construction of the addition to the TS Building and the elimination of the currently permitted 70 TPD of Recyclables, the Facility is requesting a permit modification so the Facility can be permitted to accept up to 670 TPD MSW and C&D debris, resulting in no change to the total maximum of 670 TPD of waste material.

Wastes that will not be accepted at the Facility include the following:

- Radioactive Materials;
- Suspected Hazardous Waste;
- Liquid Waste;
- Biosolids;
- Chemical or Explosive Wastes;
- Industrial Wastes, as defined in 6 NYCRR Part 360 and/or Part 371;
- Infectious or Medical Wastes, as defined in Public Health Law 1389-aa and Environmental Conservation Law Article 27 Section 1501;
- Suspected Asbestos Containing Waste;
- Electrical fixtures containing hazardous liquids such as fluorescent light ballasts or transformers;
- Fluorescent lights;
- Drums, fuel tanks, or containers greater than 10 gallons in size, and any containers having more than 1 inch of residue remaining on the bottom;
- Source-separated food scraps; or

Fill material, or similar material from a site being remediated pursuant to a program administered by the NYSDEC or EPA unless accompanied by written approval from the NYSDEC or EPA.

6.4 START-UP AND SCHEDULED SHUTDOWN OPERATIONS

During start-up, the Facility Supervisor or designee prepares for incoming Tipping Vehicles, completes the Radiation Detection System Daily Background Reading Log, walks the site and conducts the daily safety briefing. The Equipment Operator then starts up the equipment.

In the event of a scheduled shutdown, the Facility Supervisor would close the Facility to inbound Tipping Vehicles and the Equipment Operator would turn off the equipment.

6.5 VEHICLE CIRCULATION

The vehicular traffic flow to and from the Facility, as well as on site, has been designed to maximize efficiency of movement, while minimizing impacts on surrounding roadways.

Vehicular traffic projections were developed based on historical tipping records and the proposed permitted capacity of 670 TPD. Expected traffic volume calculations are further explained within Section 4.1, "Facility Design Capacity".

Tipping Vehicles and Transfer Trailers/Rail Containers enter and exit the Facility via lawful truck routes as described below.

6.5.1 Traffic Routes to and From the Facility

The Facility is permitted to accept up to 600 TPD of a combination of MSW and C&D debris and a up to 70 TPD of Recyclables. The requested maximum waste acceptance volume of 670 TPD of MSW and C&D debris will result in no increase on vehicle trips to and from the Facility. Based upon current operations, on average there is approximately 107 inbound tipping vehicles and approximately 27 outbound transfer trailers per day. These values extrapolated to 670 TPD equate to approximately 122 inbound tipping vehicles and approximately 36 outbound transfer trailers per day. Since there is no change to throughput or material type as part of this permit modification, there will be no change in the number of inbound and outbound vehicles.

Sheet No. 2, "Vicinity Map" depicts the routes used to access the Facility that is situated on Hartley Road, less than 2,300 feet north of NYS Route 17M. Major roadways used by tipping vehicles and transfer trailers include NYS Route 17M, and NYS Route 17 to the east and Interstate Route 84 to the west.

6.5.2 Vehicle Staging

Truck queuing areas for the Facility will be designated between the entrance to the Facility that is situated off of Hartley Road and the Facility scale. This queuing area provides ample space for queuing inbound vehicles and will also allow unobstructed traffic movement on Hartley Road. Facility personnel will utilize portable hand-held radios to advise the Facility Manager or designee of the availability of queuing areas in order to maintain smooth operating conditions at the Facility. Figure 4, "Queuing – Operational Site Plan" shows the required pre-scale queuing for 6 inbound tipping vehicles. As shown, there is ample space along the on-site access road for 6 additional tipping vehicles.

6.5.3 On-Site Traffic Patterns

Inbound Tipping Vehicles and empty Transfer Trailers/Rail Containers will enter the Facility through the existing Facility entrance along Hartley Road.

Inbound Tipping Vehicles travel west to the existing Truck Scale. After processing at the Truck Scale area is completed, these Tipping Vehicles will traverse from the Truck Scale to the TS Building. When Tipping Vehicles have reached the vicinity of the TS, site personnel will direct the Tipping Vehicles to the appropriate area of the TS Building. Vehicles that can tip their load onto the floor will be directed to one of the Tipping Floor entry doors and a location within the TS Building where the unloading of materials will be performed.

After unloading on the concrete Tipping Floor, the Tipping Vehicles will exit the TS Building via the roll-up door, return to the Truck Scale, finalize the transaction with the Weighmaster, and exit the Facility Hartley Road. IWS vehicles and tipping vehicles with tare weights on record with the TS Facility do not require a second scaling.

Empty Transfer Trailers and Rail Containers will bypass the Truck Scale area, and head directly to the TS Building or to the empty Trailer storage area at the western side of the Facility. Transfer Trailers/Rail Containers will be backed into the Loadout Tunnel from the west side and stage atop the Loadout Scale to obtain a tare weight and prior to the initiation of waste transfer operations. Once fully loaded, the Transfer Trailer and Rail Containers will be tarped before exiting the Loadout Tunnel. The tarped Transfer Trailers/Rail Containers will exit via Hartley Road toward Route 17M or be stored on the Trailer Storage Pad on the west side of the TS Building.

The frequency of truck traffic to the TS has been evaluated within the Throughput Capacity Calculations and Truck Queuing Model, both included within Appendix C of the Engineering Report, which demonstrate more than adequate truck traffic capacity in the proposed Facility layout.

The proposed flow of materials and traffic within the Facility is depicted on Sheet No. 7, "Proposed Vehicle Circulation Plan."

Based upon current operations, extrapolating the current weekday and Saturday vehicle count to 670 TPD, there would be approximately 127 inbound tipping vehicles and approximately 36 outbound Transfer Trailers/Rail Containers per day based upon current operations. Appendix C of the Engineering Report contains a detailed queuing summary.

6.6 SITE OPERATIONS

Inbound Tipping Vehicles and empty Transfer Trailers/Rail Containers will enter the Facility through the existing entrance along Hartley. Inbound Tipping Vehicles then travel to the Truck Scale. If necessary, while the vehicles are on the Truck Scale, vehicle drivers may exit vehicles to initiate the transaction process with the Scale Master.

After processing at the Truck Scale area is completed, the Tipping Vehicles will traverse from the Truck Scale to the TS Building. When Tipping Vehicles have reached the vicinity of the TS Building, site personnel will direct the Tipping Vehicles into the TS Building where the unloading of materials will be performed.

The Facility Manager or designee will be in charge of the operations at the Facility including traffic control and material handling.

Empty Transfer Trailers and Rail Containers will bypass the Truck Scale area north of the Maintenance Building, and around the south side of the Maintenance Building. In this area, empty inbound Transfer Trailers and Rail Containers will typically be maneuvered backing into the Loadout Tunnel on the south side of the TS Building. Loaded and empty Transfer Trailers/Rail Containers that are dropped off and stored on the Trailer Pad will be driven through waste loading operations and stowed utilizing a dedicated Trailer Jockey. At times during operations, it may be operationally convenient for an empty inbound Transfer Trailer to not stow the loaded Transfer Trailers or Rail Containers, and instead head toward the TS Building Loadout Tunnel in preparation of direct live-loading of waste.

Once loading is completed, the Transfer Trailer or Rail Container will be tarped within the Loadout Tunnel. The Loadout Tunnel tarping area will be equipped with a tether system to enable personnel to safely “tie-off” before executing tarping actions. Loaded Transfer Trailers and Rail Containers will be covered and secured prior to leaving the immediate vicinity of the TS Building.

Typically, a Trailer Jockey will pull a loaded Transfer Trailer or Rail Container out of the Loadout Tunnel’s overhead roll-up door, maneuver immediately south of the Maintenance Building and around the north side of the Building before backing onto the leachate collection equipped Trailer Pad. An over the road Tractor will engage loaded Transfer Trailers and Rail Containers that are stored on the Trailer Pad and proceed along the north side of the Facility and exit via Hartley Road. Live loaded Transfer Trailers proceed out of the Loadout Tunnel, obtain shipping documentation, and exit the Facility via Hartley Road.

Waste materials leaving the Facility will be accompanied by a tracking document, acceptable to the NYSDEC, indicating at a minimum, where the material was generated, the hauler, and the destination. This document will be signed by the hauler upon delivery to the destination. The owner or operator of the receiving facility will also sign the document and be instructed to return the form to the Operator within two (2) weeks. Should the material be transported to another solid waste facility for further processing, and subsequently transferred again, an additional tracking document will be required to document that the material was ultimately treated or disposed of at an authorized solid waste facility. A record of all transactions will be maintained on site for a period not less than seven (7) years from the date of recording.

6.6.1 Waste Tipping Operations

Inbound Tipping Vehicles drive onto the Truck Scale where the gross vehicle weight will be obtained. If the Scale Master determines, upon inquiry of the driver, that the load contains unauthorized waste, the driver will be advised accordingly, and Facility personnel will be notified via the intercom system or via a hand-held radio not to permit the Tipping Vehicle to enter the tipping area. This is the first step in the waste screening/inspection program.

If the load contains acceptable material, and the driver has obtained a signed truck weight ticket from the Scale Master, the Tipping Vehicles will then pull forward off the scale and will be directed by the Facility Manager or designee to one of the tipping bay areas.

Based on market and disposal conditions, the Facility may manage MSW and C&D debris separately, or MSW and C&D debris may be commingled and managed as a single waste type. If and when C&D debris is separately managed, a portion of the Tipping Floor will be designated for C&D debris use. Tipping Vehicles will be directed to the appropriate area of the Tipping Floor if the materials are to be handled separately. Operational flexibility will be provided as any of these unloading positions may be used for any material type and will be dependent on the

material types being delivered, the storage of material on the Tipping Floor, the availability of Transfer Trailers or Rail Containers, and other operational considerations.

An Equipment Operator or designee within the Tipping Floor area will also serve to direct inbound Tipping Vehicles using hand signals. As instructed by the Scale Master and the Tipping Floor personnel, drivers of the Tipping Vehicles will be directed to proceed only after making eye contact with a Facility employee and being directed/signaled by that Facility employee.

After the Tipping Vehicle enters the TS Building, and prior to unloading on the Tipping Floor, Tipping Floor personnel and/or the Equipment Operator or designee will visually inspect the Tipping Vehicle and look for unauthorized materials, or evidence thereof, in the presence of the driver, prior to the tipping. If unauthorized material is found in the load prior to tipping, IWS reserves the right to reject the entire load and not accept it for processing. Immediately upon tipping, Tipping Floor personnel and/or Equipment Operator or designee will visually inspect the load for unauthorized materials. If unauthorized materials are discovered after unloading, IWS will immediately secure such waste and the handling of the materials in accordance with the procedures outlined in Section 7.0, "Waste Control Plan." Occasional items of identified unauthorized materials will be removed from the Tipping Floor by hand picking after the waste is unloaded.

After the waste material is tipped, it is loaded into a Transfer Trailer or Rail Container, or it is temporarily stockpiled in the designated storage areas on the Tipping Floor. After waste tipping, Tipping Vehicles will exit the TS Building. If a tare weight is on record for the Tipping Vehicle, it may by-pass the Truck Scale and exit the Facility. If a tare weight is not on-file for the Tipping Vehicle, the outbound Tipping Vehicle will maneuver to the Truck Scale to obtain a tare weight to complete the transaction. The Facility maintains a database of vehicle tare weights of Tipping Vehicles that frequent the Facility which eliminates the need for the vehicle to be weighed after tipping to complete a transaction.

The total maximum processing time for inbound Tipping Vehicles to unload waste, as described above, is typically performed in approximately ten (10) minutes.

6.6.2 Transfer Operations

Transfer Trailers/Rail Containers will be backed into the Loadout Tunnel and positioned upon the Loadout Tunnel Scale. Digital readouts mounted above the Loadout Tunnel Scale and observable to the Equipment Operators or designee will allow the Transfer Trailers to be properly loaded to maximize each outgoing load. These readouts will indicate individual Transfer Trailer axle weights (or groupings of axles), as well as total vehicle weight.

Mobile equipment, such as a Wheel Loader and/or Mobile Excavator, operating on the Tipping Floor will be used for loading the Transfer Trailer or Rail Container. Waste material will be systematically placed, compacted, leveled, and groomed within the Transfer Trailer or Rail Container. When the Transfer Trailer or Rail Container is loaded to the desired weight, the gross vehicle weight will be transmitted to the Scale Master in the Truck Scale along with the previously obtained tare weight. The Transfer Trailer or Rail Container driver will tarp and cover the top of the Transfer Trailer/Rail Container, prior to leaving the TS Building using the tarping station within the Transfer Tunnel. Prior to deploying the tarp, the driver or designated employee will connect to the tether system to safely "tie-off" before executing Transfer Trailer tarping actions. The tarp will be secured to prevent blowing litter at the Facility. When the tarping is completed, the loaded Transfer Trailer will either be stored on the Trailer Pad for future shipment from the facility or will be driven from the site.

Table 2 in the Facility Manual lists the NYSDEC authorized waste destination facilities currently owned and used by IWS. (Refer to Appendix E of the Facility Manual for the disposal facility permit, a table summarizing the name, address, contact person, type of authorization, expiration date of authorization, and the amount of each type of material that the Facility can send to each disposal facility). Due to ever changing market conditions beyond IWS

control, available disposal facilities may change. IWS will request approval from the NYSDEC for additional facility disposal facilities prior to use.

6.6.3 Recycling Operations

The TS may recover recyclable materials found within the MSW and/or C&D debris once the material has been unloaded on the Tipping Floor. These materials, including metals and corrugated cardboard, will be temporarily segregated on the Tipping Floor by Equipment Operators or Laborers/Sorters before being placed into roll-off containers for transport to an approved materials recovery provider, as listed in Table 2.

6.7 FACILITY PROCESS FLOW DIAGRAMS

The flow of materials through the Facility is depicted in Figure 5, “Facility Process Flow Diagram, Combined MSW and C&D Debris (Part 362-3)”. This figure illustrates the receipt and handling of MSW and C&D debris separately. MSW and C&D debris may be handled together.

The average daily amount of MSW and C&D accepted at the Facility is approximately 395 TPD or 1,411 cubic yards based upon an average density of 560 pounds per cubic yard for the combined waste stream. The maximum daily tonnage will not exceed 670 TPD or 2,393 cubic yards. This equates to an approximate average annual tonnage of 123,240 TPY or 440,143 cubic yards and a maximum of 209,040 TPY or approximately 746,571 cubic yards of MSW and C&D.

Figure 6, “Facility Process Flow Diagram, MSW (Part 362-3 and C&D Debris (Part 361-5)”. The average daily amount of MSW accepted at the Facility is approximately 348 TPD or 1,160 cubic yards based upon an average density of 600 pounds per cubic yard. The maximum daily tonnage of MSW not exceed 590 TPD or 1,967 cubic yards. This equates to an approximate average annual tonnage of 108,576 TPY or 361,920 cubic yards and a maximum of 184,080 TPY or approximately 613,600 cubic yards of MSW.

The average daily tonnage of C&D accepted at the Facility is approximately 47 TPD or 188 cubic yards based upon an average density of 500 pounds per cubic yard. The maximum daily tonnage will not exceed 80 TPD or 320 cubic yards. This equates to an approximate average annual tonnage of 14,664 TPY or 58,656 cubic yards and a maximum of 24,960 TPY or approximately 99,840 cubic yards of C&D.

6.8 MATERIALS RECOVERY AND DISPOSAL PROVIDERS

IWS has established relationships with markets for the recovered materials from the Facility. These markets, as presented in Table 2 in the Facility Manual, will continue to be used and others may be added as market conditions and availability may change.

The IWS Goshen Facility utilizes the services of several authorized disposal facilities for the MSW and C&D debris leaving the Facility. In accordance with disposal contracts, the ultimate disposal site for waste from the Facility will be an approved facility utilized at the discretion of IWS. Many in state options are available to be used as disposal facilities, as presented in Table 2 in the Facility Manual. IWS may form disposal agreements that utilize any combination of approved facilities, including those listed on this Table.

Recyclable materials recovered from C&D debris in accordance with the SWMF Permit will be transported to a provider listed on Table 2 in the Facility Manual.

Materials will be separated from C&D debris to be recycled or to be reused for a specific use if approved by the NYSDEC. Material that is not recovered will be sent to a permitted landfill or waste-to-energy facility.

Recyclables recovered from the C&D debris will not be stored onsite for more than sixty (60) days unless prior written approval has been granted by the NYSDEC Region 3.

6.9 MATERIAL STORAGE

The proposed TS Building will include approximately 17,206 square feet for Tipping Vehicle unloading, waste transfer/material recovery operations, and temporary material storage. Floor space requirement calculations, as they relate to the ability of the TS Building to store an entire day of capacity under emergency conditions, are discussed below and depicted on Figure 2, "Tipping Floor Emergency Storage Pile Volume."

Approximately 7,430 square feet of Tipping Floor space within the TS Building may be utilized for emergency storage of unprocessed MSW and/or C&D debris. Unconfined storage slopes are calculated to be one (1) horizontal to one (1) vertical. Stacking of waste an average of twelve feet (12') high would equate to a total capacity of 2,415 cubic yards, or 676 tons of MSW and C&D (*applying a density of 560 pounds per cubic yard on the Tipping Floor*). Pile 1 equates to approximately 1,845 cubic yards and Pile 2 equates to approximately 570 cubic yards.

Throughput Capacity Calculations included in Appendix C contains a Collection Vehicle Queuing Analysis, a Tipping Floor Surge Pile Analysis, and Emergency Storage Area Calculations.

Appendix C also presents calculations for the maximum anticipated surge pile resultant from 670 TPD capacity of MSW and C&D would equal six hundred and forty-two (642) cubic yards or approximately one-hundred and eighty (180) tons. Figure 3, "Tipping Floor Operational Surge Pile Volume" demonstrates this projected MSW and C&D surge piles under proposed operating conditions.

6.9.1 Storage Durations

When operating under Part 362-3, MSW and C&D debris received at the TS will be processed and loaded into a Transfer Trailer or Rail Containers by the end of each day and removed from the Facility by the end of the next business day after the container becomes full or within seven (7) calendar days of receipt, whichever comes first. If a Transfer Trailer or Rail Containers is not fully loaded at the end of the day, it will remain in the Loadout Tunnel until the next day. The Tipping Floor shall be cleaned at the end of each operating day.

When operating under both Part 362-3 and Part 361-5, C&D debris, will be processed within 30 days of receipt.

Unauthorized material discovered within the Facility will be removed within seven (7) days of receipt, in accordance with the procedures in Section 7.0, "Waste Control Plan".

6.10 MOBILE EQUIPMENT

In order to process the inbound material streams, the Facility will employ a combination of the following mobile equipment:

- (2) Wheel Loader (Caterpillar 950)
- (1) Excavator (CAT 32)
- (1) Backhoe (Caterpillar 416)
- (3) Yard Tractor (Capacity)
- (1) Yard Tractor (MACK)

Appendix D of the Facility Manual includes equipment specifications typical of the mobile equipment utilized at the Facility.

The above equipment list and associated specifications represent a sample of equipment capable of performing tasks required by the Facility operations. Any or all of the equipment pieces specified in this Report or its appendices may be substituted with equally capable machinery upon approval from the NYSDEC. The necessary equipment will be available at the Facility during hours of operation to prevent curtailment of operations because of equipment failure, except under extraordinary conditions beyond the IWS's control.

In the event of equipment failure, IWS will rent similar equipment to provide immediate backup. IWS will notify the NYSDEC of such situation.

6.10.1 Mobile Equipment Fuel Storage and Dispensing

The Facility has a 500-gallon and a 2,000-gallon aboveground double-walled diesel fuel tanks that are used for fueling the on-site mobile equipment. These tanks are located in the former Recycling Area Building and are both registered with the NYSDEC. These existing fuel tanks will be relocated to an area along the west side of the Maintenance Building following construction of the building addition.

6.11 NUISANCE MITIGATION

Nuisance mitigation is described in Section 4.9 of the accompanying Facility Manual.

6.12 SITE INSPECTION AND MAINTENANCE

Comprehensive Inspection and Maintenance Plans have been developed to ensure that the availability and function of the Facility and equipment are kept in efficient operating condition.

The Facility's Inspection Plan establishes schedules for inspecting various components of the Facility, indicating recommended items to be inspected and procedures for inspections to be performed. The Inspection Plan is accompanied by the IWS Transfer Station Weekly Facility Inspection Log (included in the Tables section of the Facility Manual), to provide a record of scheduled inspections.

The Maintenance Plan for the Facility provide for the preventive maintenance of operational components on a time scheduled basis in accordance with industry best practices and/or equipment manufacturer's recommendations. These maintenance activities will be overseen by the Facility Manager and performed by the Facility's Staff.

The detailed Inspection and Maintenance Plans are included within the accompanying Facility Manual.

7.0 WASTE CONTROL PLAN

A detailed Waste Control Plan is included in Section 5.0 of the accompanying Facility Manual (Manual).

The Waste Control Plan includes the following:

- Random load inspections;
- Procedures to manage unauthorized waste, including suspected hazardous waste, upon discovery;
- Notification procedures to report to the NYSDEC the discovery of unauthorized waste, including suspected hazardous waste; and;
- Training of Facility personnel to recognize unauthorized waste, including likely or suspected hazardous waste.

8.0 STAFFING AND TRAINING PLAN

The Facility's Staffing and Training Plan is presented as Section 6.0 of the accompanying Facility Manual (Manual).

9.0 EMERGENCY RESPONSE PLAN

The Emergency Response Plan is included in Section 9.0 of the accompanying Facility Manual (Manual) and provides emergency operational guidelines to be implemented and followed upon the occurrence of a contingent event.

Situations addressed within the accompanying Emergency Response Plan include:

- Procedures for Contingent Situations;
- Preparedness, Prevention, and Response to Contingent Events;
- Medical Emergencies/First Aid;
- Information for Emergency Services;
- Severe Weather;
- Unauthorized Wastes;
- Unusual Traffic Conditions;
- Reporting and Recordkeeping; and
- Closure.

10.0 REPORTING AND RECORDKEEPING

Reporting and recordkeeping requirements are presented in Section 10.0 of the accompanying Facility Manual, relating specifically to the following:

- Application documents required by 6 NYCRR Subpart 360.19 (k)(1);
- Operating records required by 6 NYCRR Subpart 360.19 (k)(2); and
- Annual reports submitted to the NYSDEC, as per the requirements of 6 NYCRR Part 360.19(k)(3).

11.0 CLOSURE

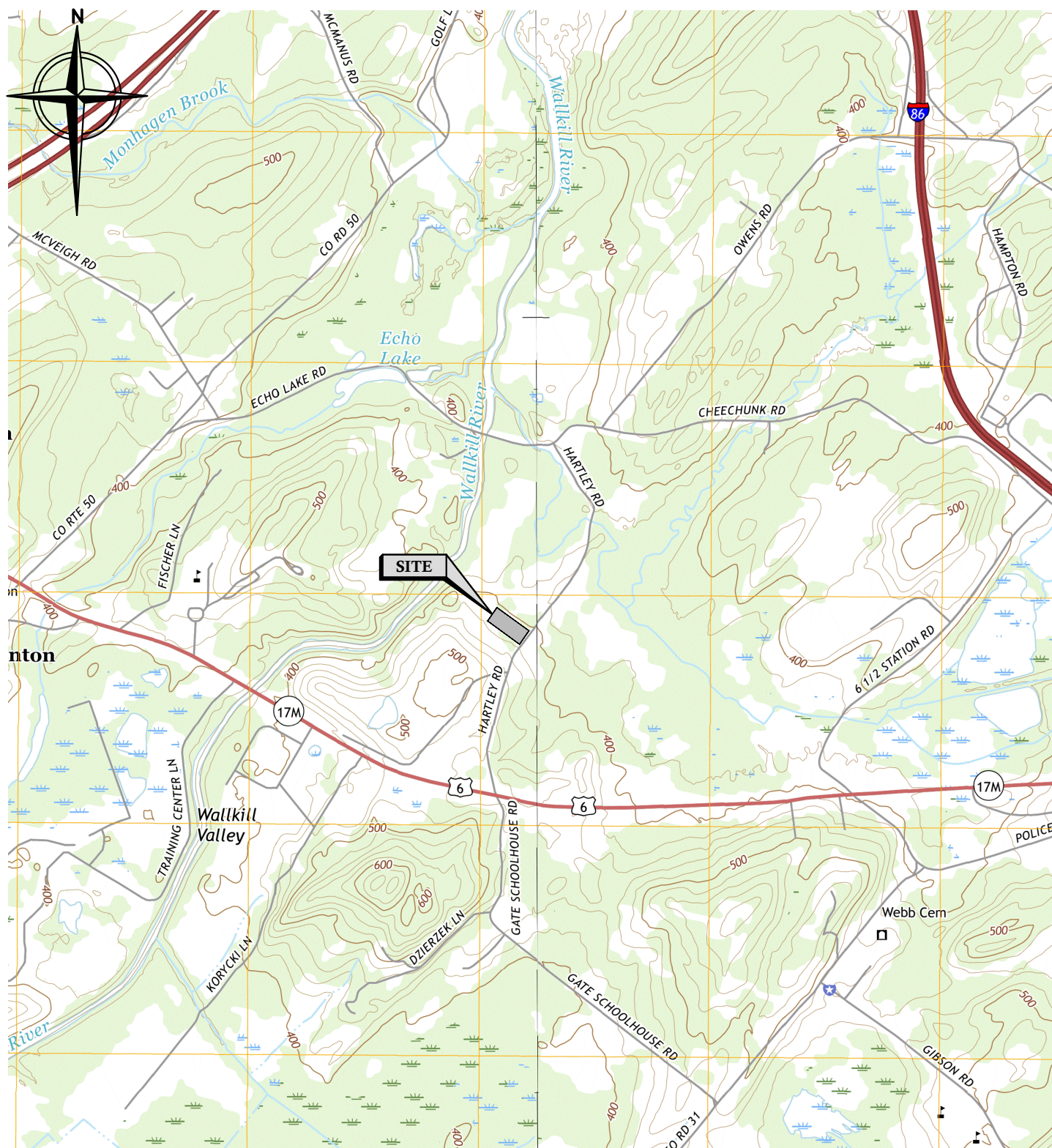
Closure of the facility will be in accordance with the requirements of 6 NYCRR Part 360.21 Closure Requirements. The Facility's Closure Plan and Closure Cost Estimate are presented in further detail as Section 11.0 and Appendix C of the accompanying Facility Manual.

12.0 LIMITATIONS

The work product included in the attached was undertaken in full conformity with generally accepted professional consulting principles and practices and to the fullest extent as allowed by law we expressly disclaim all warranties, express or implied, including warranties of merchantability or fitness for a particular purpose. The work product was completed in full conformity with the contract with our client and this document is solely for the use and reliance of our client and the NYSDEC (unless previously agreed upon that a third party could rely on the work product) and any reliance on this work product by an unapproved outside party is at such party's risk.

The work product herein (including opinions, conclusions, suggestions, etc.) was prepared based on the situations and circumstances as found at the time, location, scope and goal of our performance and thus should be relied upon and used by our client recognizing these considerations and limitations. Cornerstone Engineering and Geology, PLLC shall not be liable for the consequences of any change in environmental standards, practices, or regulations following the completion of our work and there is no warrant to the veracity of information provided by third parties, or the partial utilization of this work product.

FIGURES



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SCALE IN FEET

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SOURCE MAPPING NOTES:

BACKGROUND SOURCE MAPPING COMPILED FROM U.S. GEOLOGICAL SURVEY 7-1/2 MINUTE TOPOGRAPHIC QUADRANGLE MAP IMAGERY FOR GOSHEN (2016), AND MIDDLETOWN (2016).

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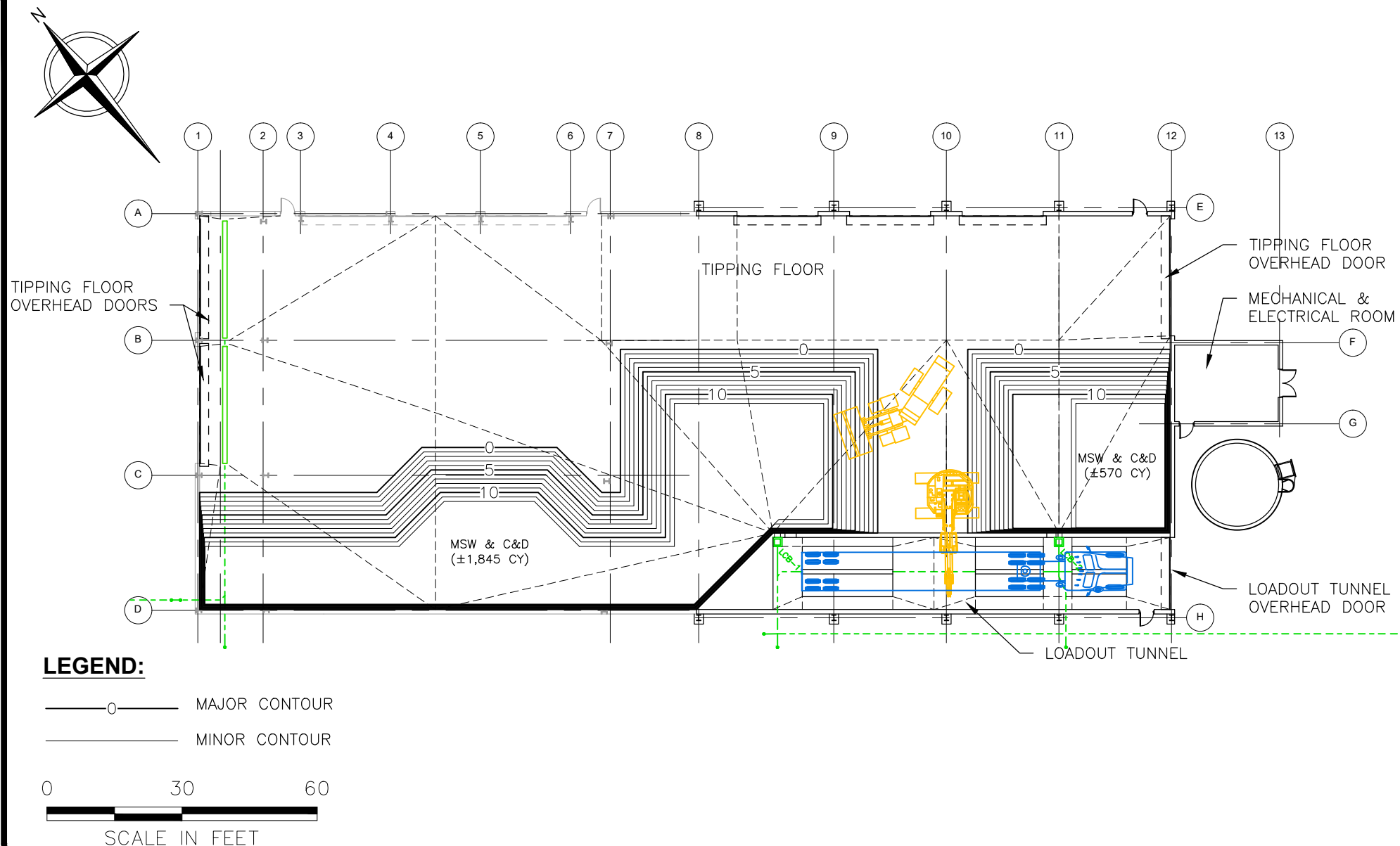
IWS TRANSFER SYSTEMS OF NY, INC.
GOSHEN TRANSFER STATION
95 HARTLEY ROAD, GOSHEN, NEW YORK 10924

SITE LOCATION MAP

FIGURE NO.

1

PROJECT NO.
4233429



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DATE OF ISSUE MARCH 2024
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DESIGNED BY BPF/KMT
CHECKED BY ACS
APPROVED BY KMT



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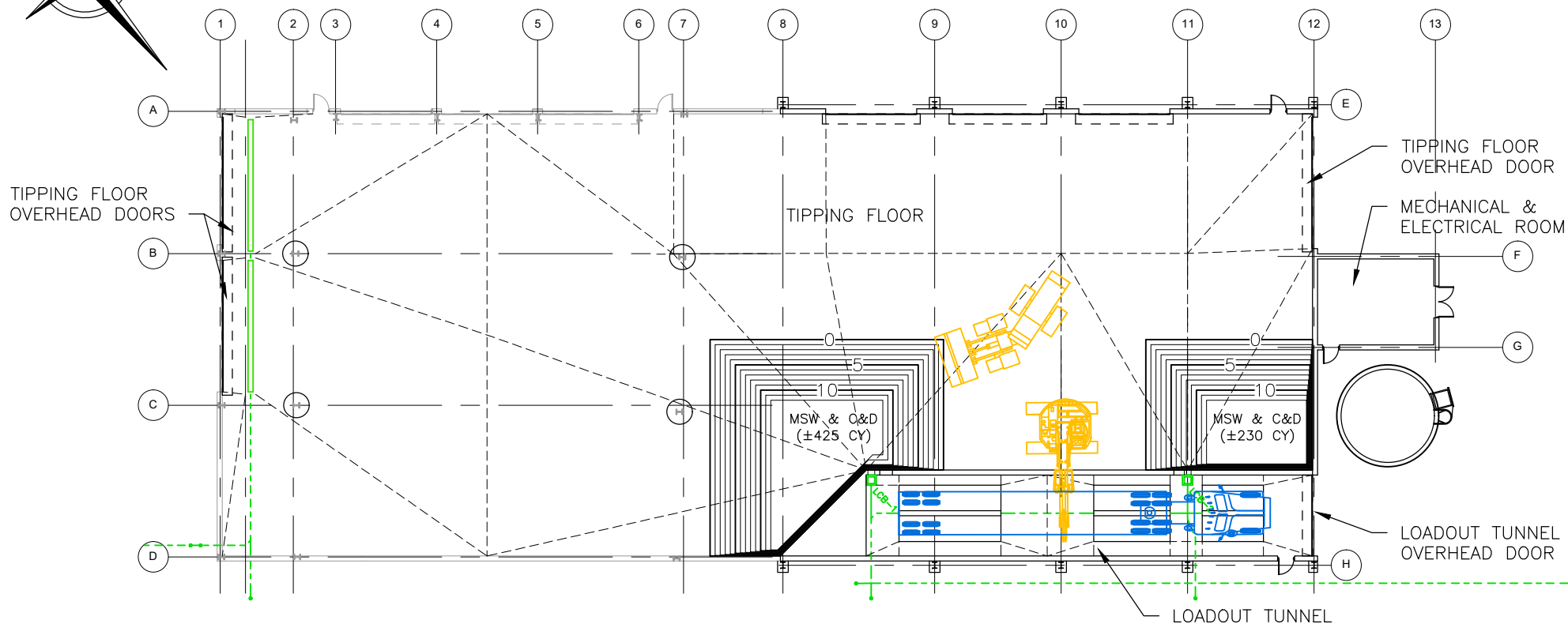
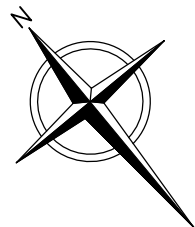
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GOSHEN TRANSFER STATION
95 HARTLEY ROAD, GOSHEN, NEW YORK

PROPOSED FACILITY MODIFICATIONS
TIPPING FLOOR EMERGENCY STORAGE PILE VOLUME

FIGURE NO.

2

PROJECT NO.
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DATE OF ISSUE MARCH 2024
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DESIGNED BY BPF/KMT
CHECKED BY ACS
APPROVED BY KMT



PREPARED BY:
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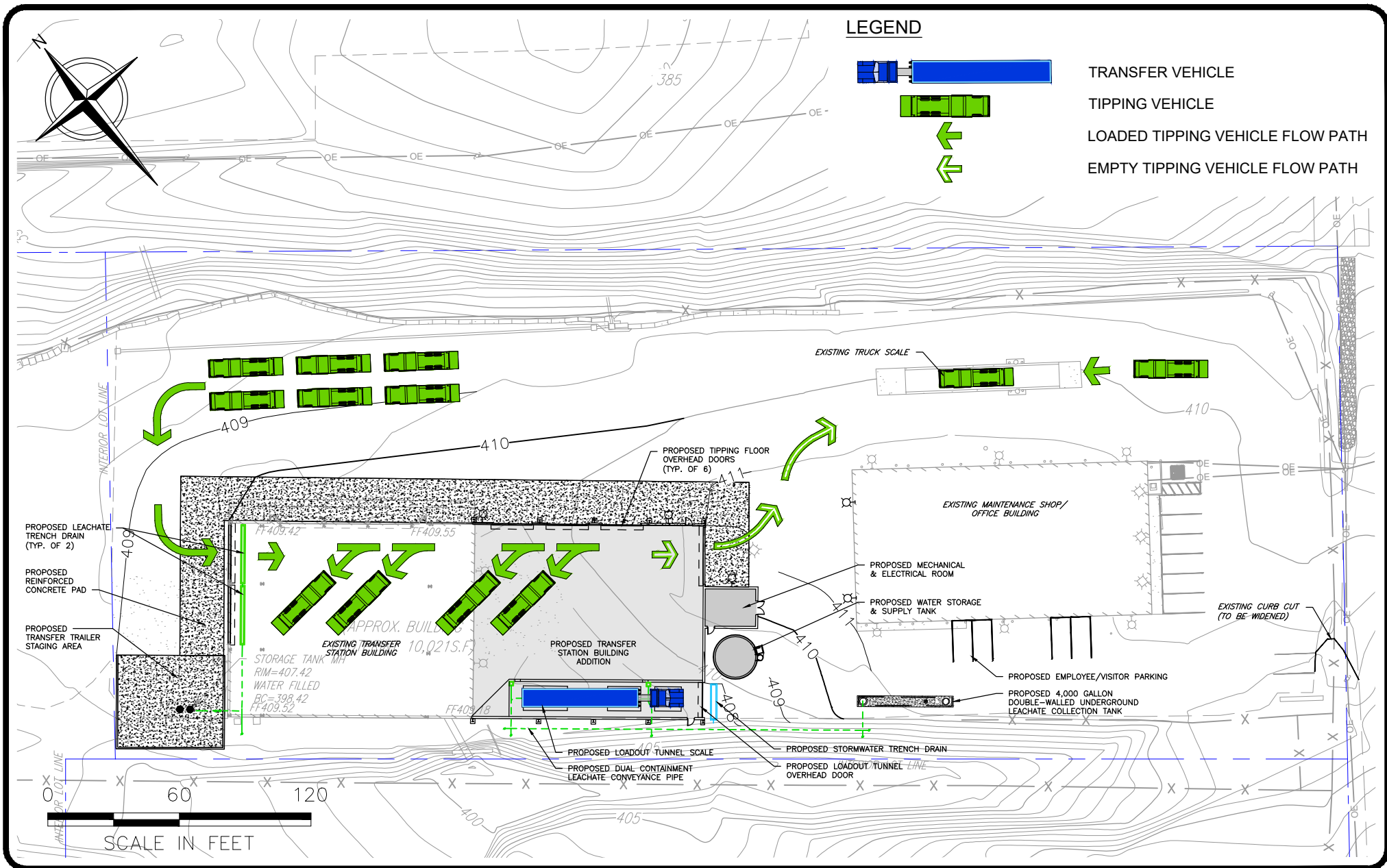
I.W.S. TRANSFER SYSTEMS OF N.Y., INC.
GOSHEN TRANSFER STATION
95 HARTLEY ROAD, GOSHEN, NEW YORK

PROPOSED FACILITY MODIFICATIONS
TIPPING FLOOR OPERATIONAL SURGE PILE VOLUME

FIGURE NO.

3

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I.W.S. TRANSFER SYSTEMS OF N.Y., INC.
 GOSHEN TRANSFER STATION
 95 HARTLEY ROAD, GOSHEN, NEW YORK

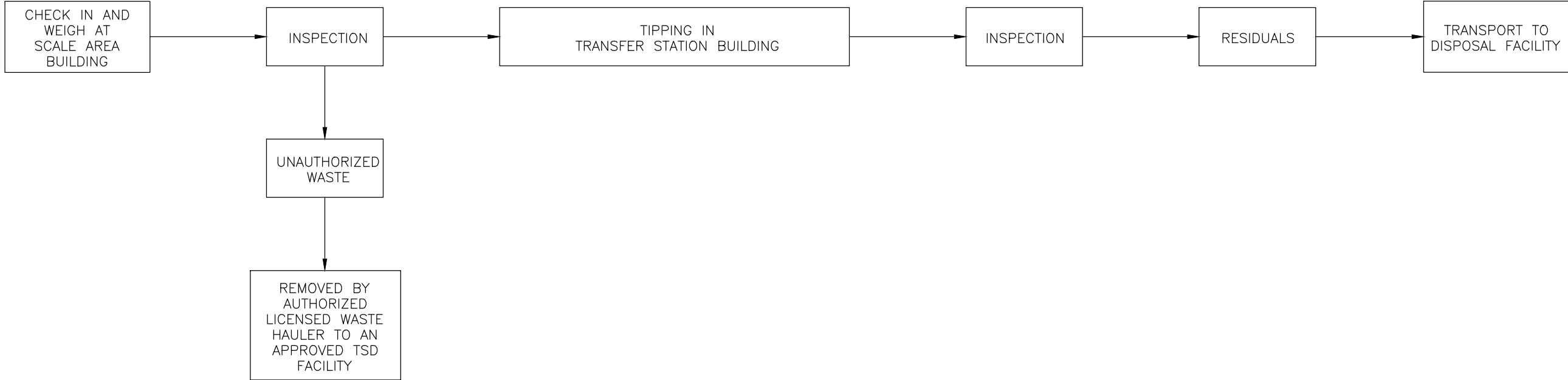
**PROPOSED FACILITY MODIFICATIONS
 QUEUING - OPERATIONAL SITE PLAN**

FIGURE NO.

4

PROJECT NO.
 4223429

MSW AND C&D PROCESSING MAXIMUM OF 670 TPD (2,393 CY) AND AVERAGE OF 395 TPD (1,411 CY)



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95 HARTLEY ROAD, GOSHEN, NY 10924

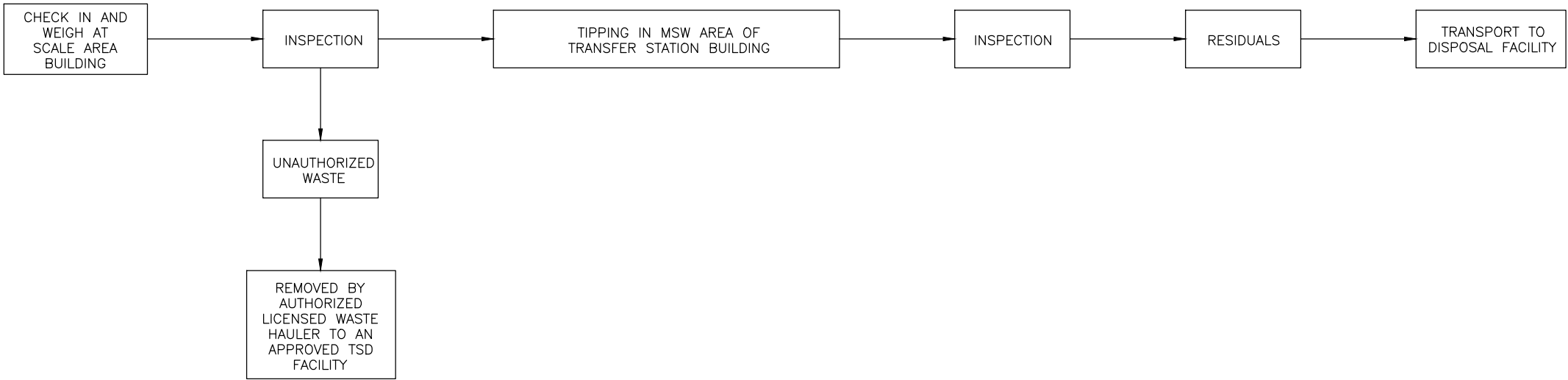
**PROCESS FLOW DIAGRAM
MSW & C&D DEBRIS (PART 362-3)**

FIGURE NO.

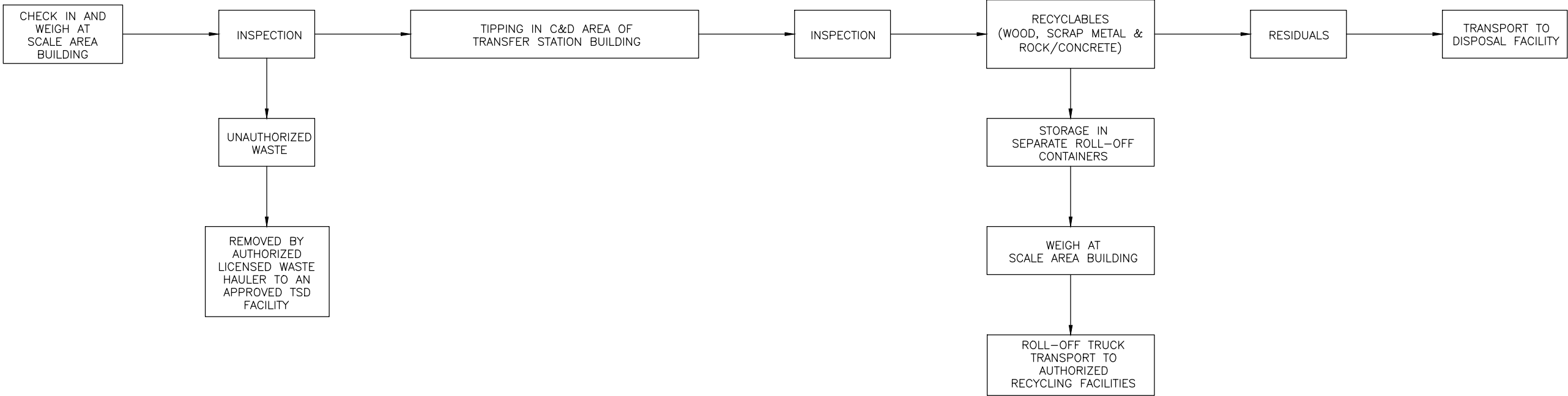
5

PROJECT NO.
4223429

MSW PROCESSING MAXIMUM OF 590 TPD (1,967 CY) AND AVERAGE OF 348 TPD (1,160CY)



C&D PROCESSING MAXIMUM OF 80 TPD (320 CY) AND AVERAGE OF 47 TPD (180 CY)



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PROCESS FLOW DIAGRAM
MSW (PART 362-3) & C&D DEBRIS (PART 361-5)

FIGURE NO.

6

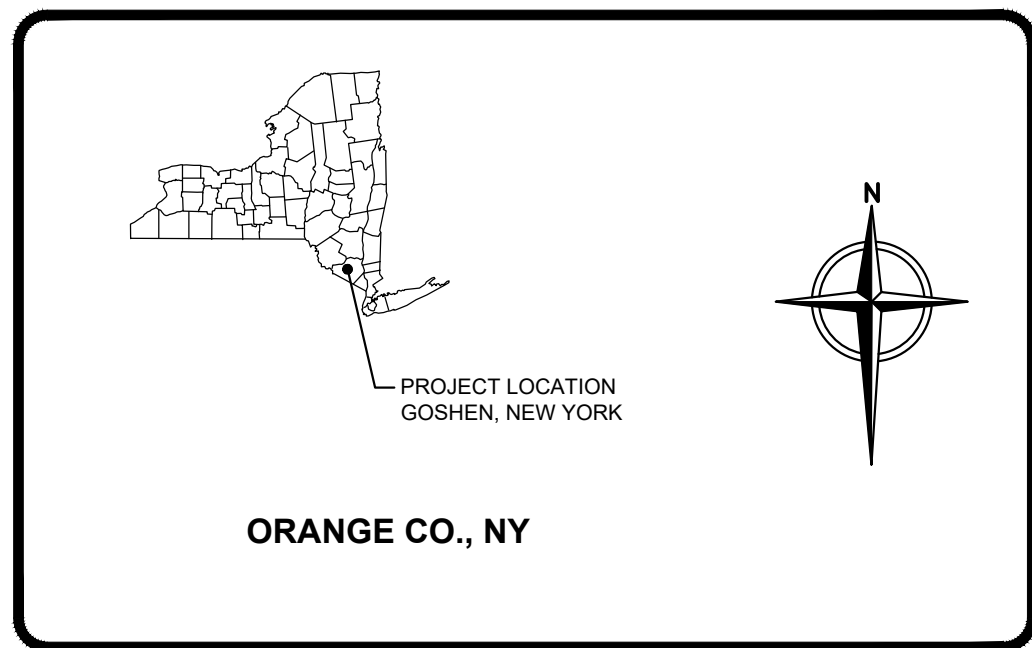
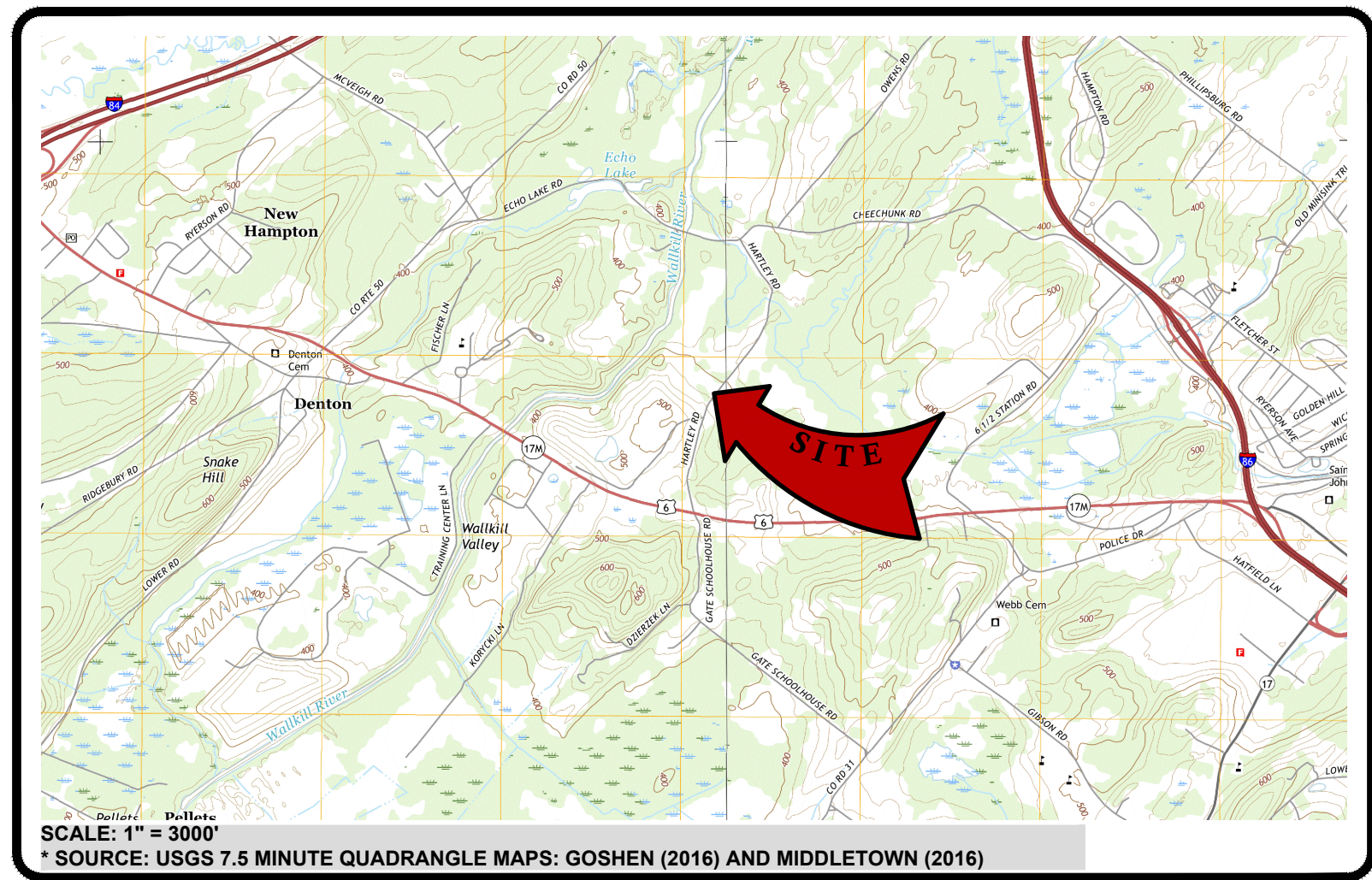
PROJECT NO.
4223429

DRAWINGS

TITLE 6 NYCRR PART 360 SERIES ENGINEERING DRAWINGS
FOR THE
PROPOSED FACILITY MODIFICATIONS

PREPARED FOR
I.W.S. TRANSFER SYSTEMS OF N.Y., INC.
GOSHEN TRANSFER STATION
95 HARTLEY ROAD, GOSHEN, NEW YORK

MARCH 2024



LOCATION MAPS

PREPARED BY:



PREPARED BY:
CORNERSTONE ENGINEERING AND GEOLOGY, PLLC

100 CRYSTAL RUN ROAD
SUITE 101
MIDDLETOWN, NEW YORK 10941
Tel: (877) 294-9070
Fax (845) 692-5894

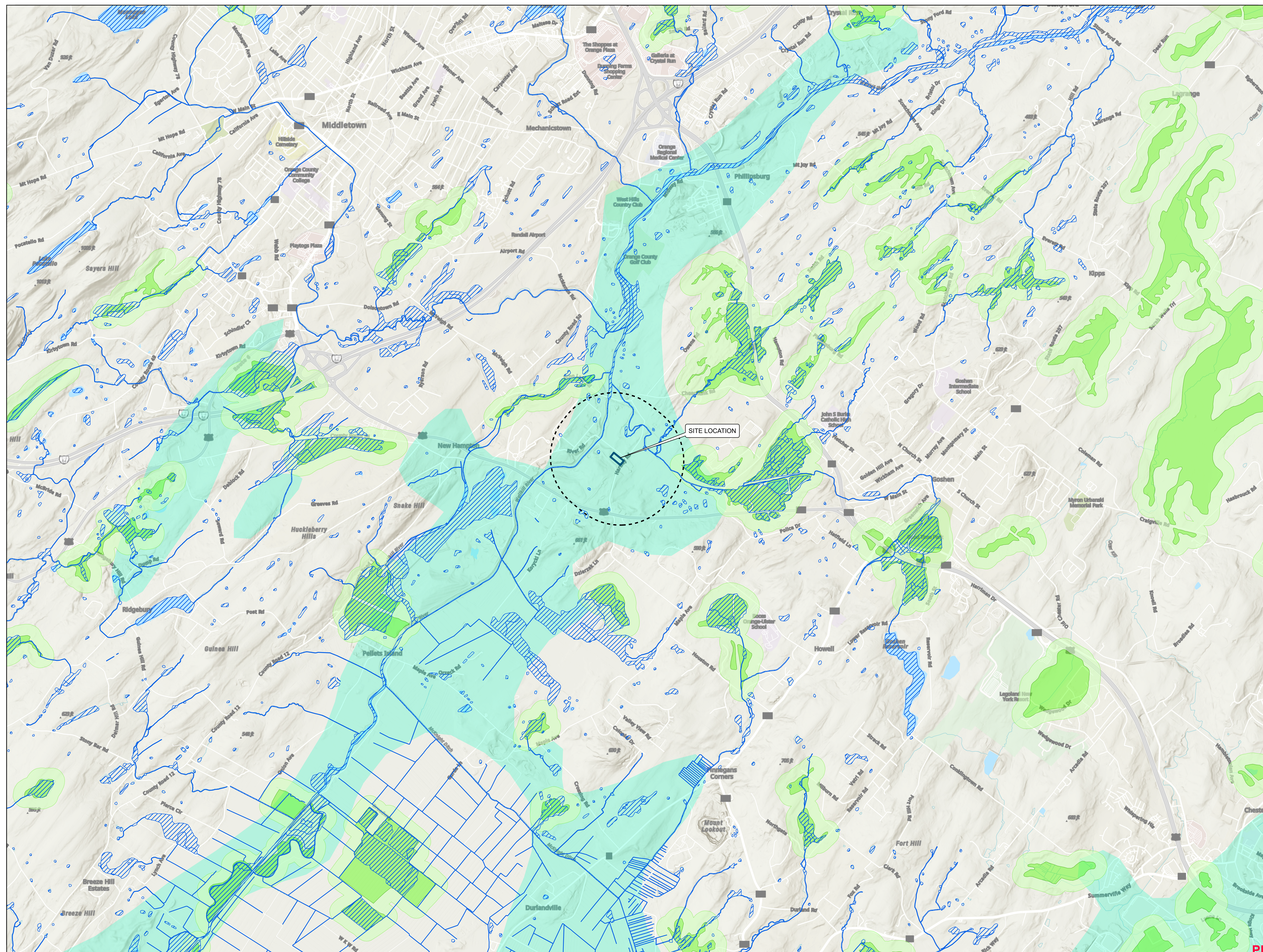
INDEX OF DRAWINGS

0	COVER SHEET
1	REGIONAL MAP
2	VICINITY MAP
3	TRUCK ROUTE MAP
4	ZONING & LAND USE MAP
5	EXISTING SITE PLAN
6	PROPOSED SITE PLAN
7	PROPOSED VEHICLE CIRCULATION PLAN
8	PROPOSED EVACUATION PLAN
9	PROPOSED GENERAL ARRANGEMENT FLOOR PLAN
10	PROPOSED OPERATIONS FLOOR PLAN
11	PROPOSED BUILDING ELEVATIONS
12	PROPOSED BUILDING ELEVATIONS
13	PROPOSED SITE DETAILS
14	PROPOSED LEACHATE MANAGEMENT DETAILS
15	PROPOSED WATER SUPPLY TANK DETAILS
16	PROPOSED EROSION & SEDIMENT CONTROL DETAILS
17	PROPOSED MISCELLANEOUS DETAILS

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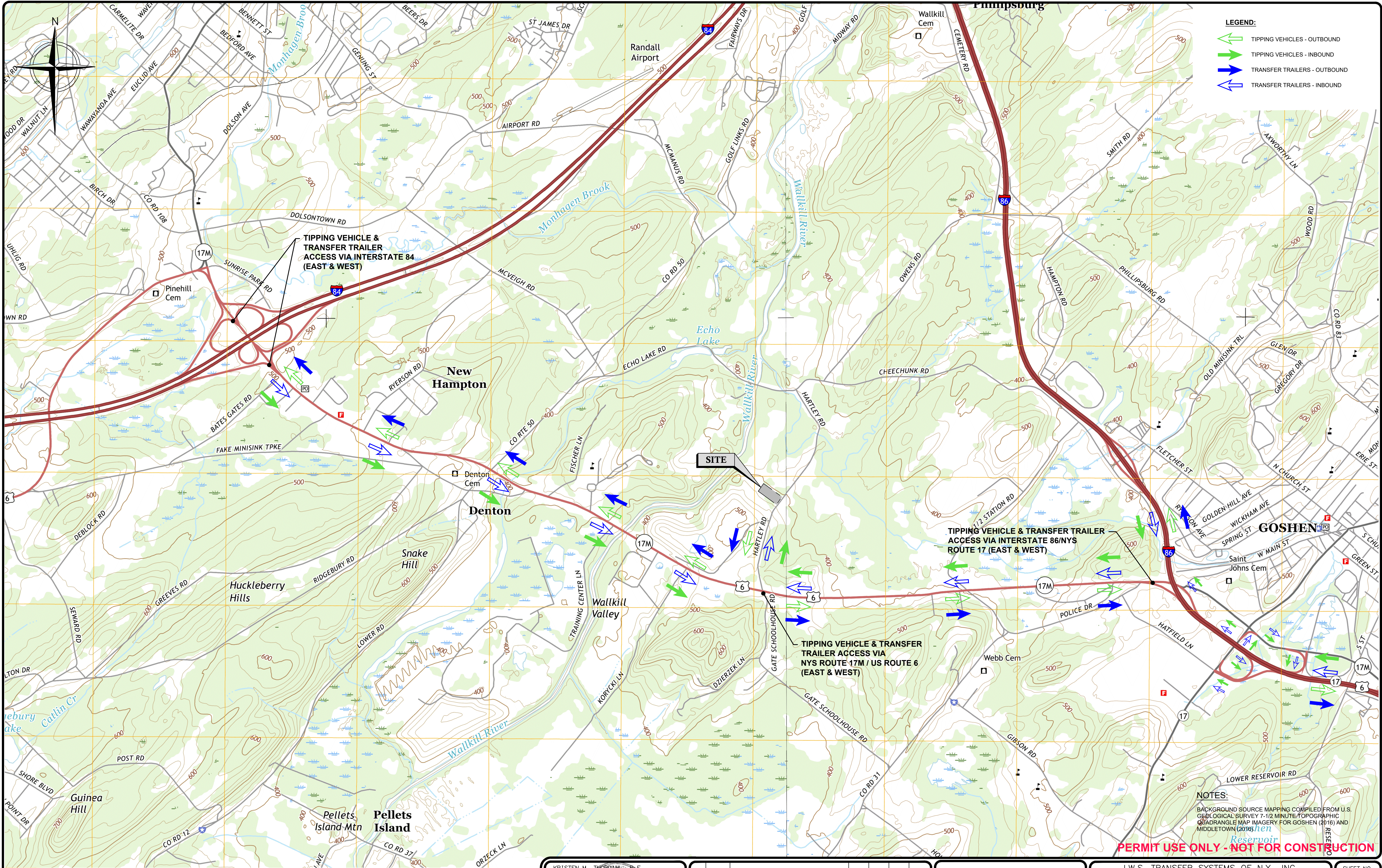
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- LEGEND:**
- TIPPING VEHICLES - OUTBOUND
 - TIPPING VEHICLES - INBOUND
 - TRANSFER TRAILERS - OUTBOUND
 - TRANSFER TRAILERS - INBOUND

NOTES:
BACKGROUND SOURCE MAPPING COMPILED FROM U.S. GEOLOGICAL SURVEY 7-1/2 MINUTE TOPOGRAPHIC QUADRANGLE MAP IMAGERY FOR GOSHEN (2016) AND MIDDLETOWN (2016).

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N.Y.P.E. No. 067294-1 Date

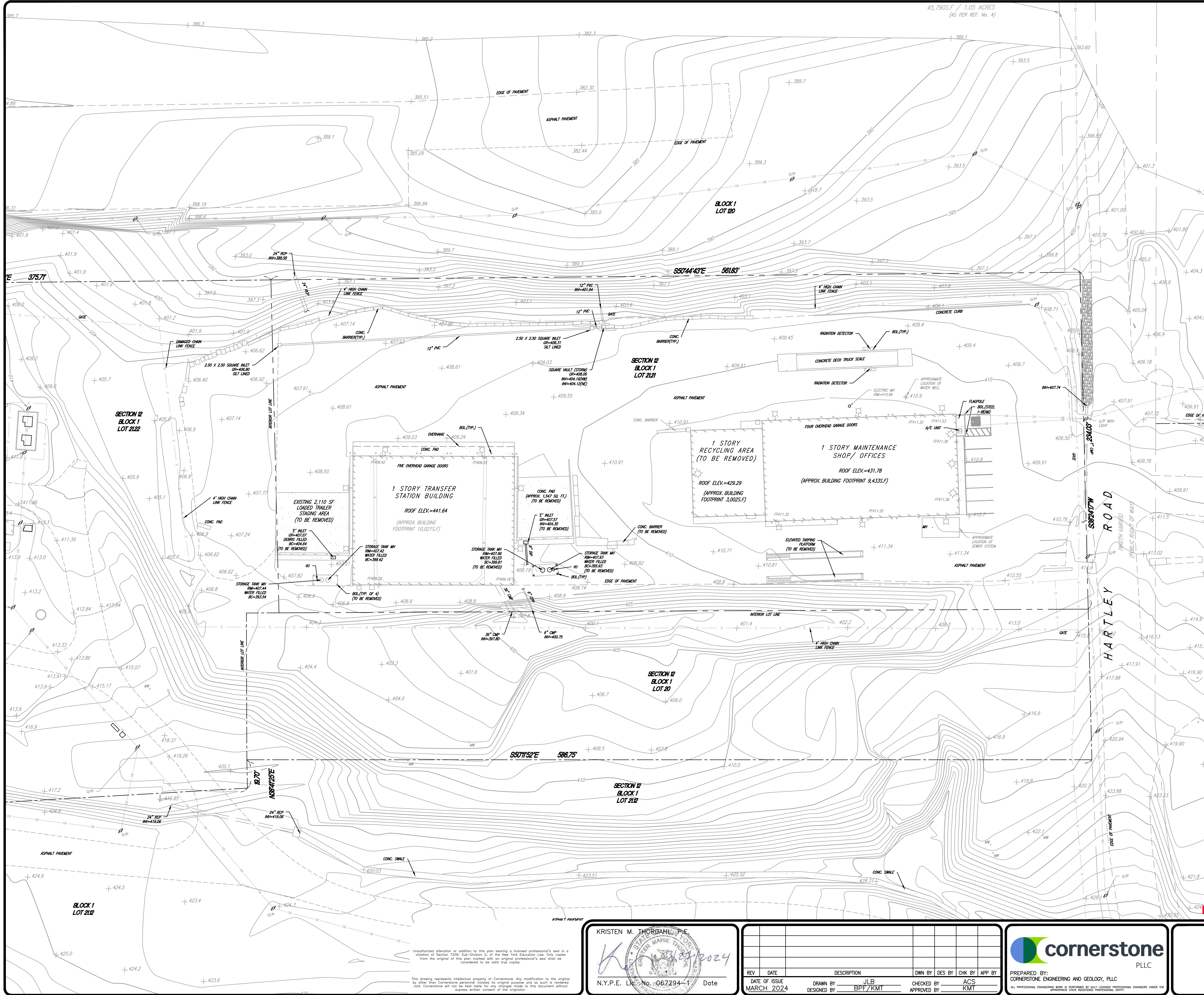
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	MARCH 2024	DATE OF ISSUE				
		DRAWN BY	JLB		ACS	
		DESIGNED BY	BPF/KMT			
		CHECKED BY			KMT	
		APPROVED BY				

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95 HARTLEY ROAD, GOSHEN, NEW YORK
**PROPOSED FACILITY MODIFICATIONS
TRUCK ROUTE MAP**

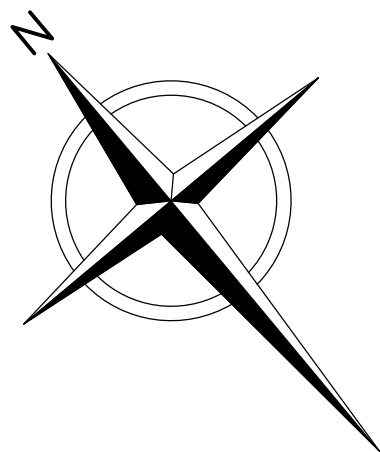
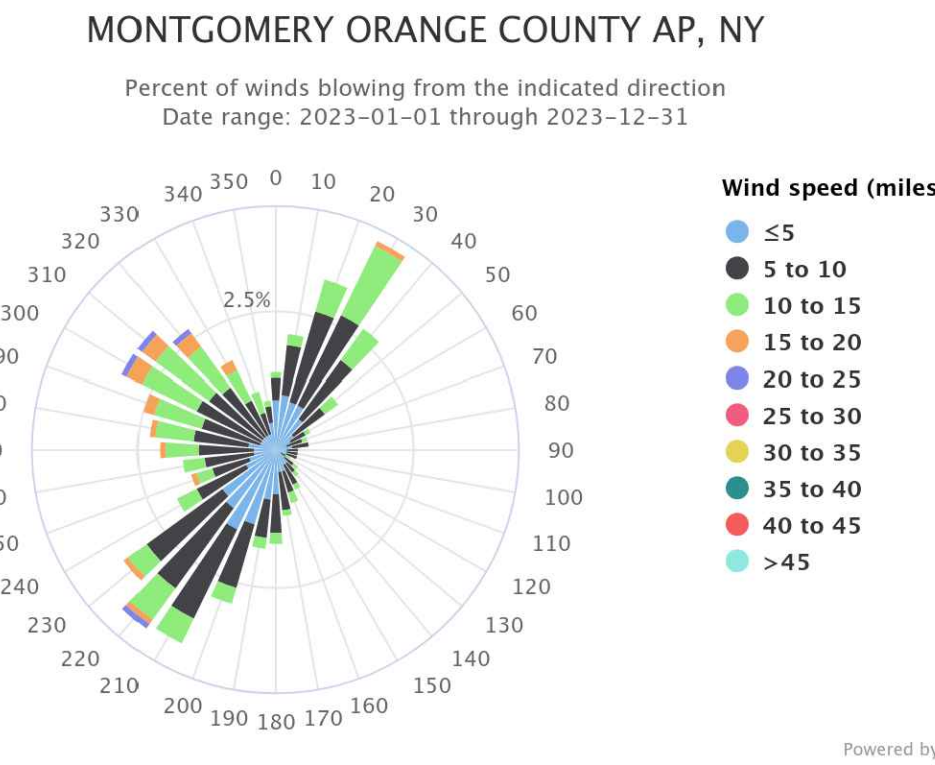
SHEET NO.
3
PROJECT NO.
4223429

1" = 1/2" 0" 1000 2000
SCALE IN FEET
File: X:\PROJECTS\Yan\Goshen\4223429 - TRANSFER STATION DESIGN_Plan_Sat\DEC SET\23429-5-03-TRUCK ROUTE Map.dwg Layout: SHEET 03 User: b.pandey\mtd\plasma Mar 26, 2024 - 5:28pm



- LEGEND**
- PROPERTY LINE
 - ADJACENT PROPERTY LINE
 - EASEMENT LINE
 - RIGHT OF WAY LINE
 - EXISTING MINOR CONTOURS
 - EXISTING MAJOR CONTOURS (AS LABELED)
 - EXISTING GROUND ELEVATION
 - EXISTING EDGE OF PAVEMENT
 - EXISTING EDGE OF GRAVEL
 - EXISTING FENCE LINE
 - EXISTING CONCRETE
 - EXISTING BUILDING
 - EXISTING TREE LINE
 - EXISTING GUIDE RAIL
 - EXISTING CURB LINE
 - EXISTING OVERHEAD WIRE
 - EXISTING UTILITY POLE
 - EXISTING CULVERT

- NOTES:**
- SITE BOUNDARY & TOPOGRAPHY SURVEY, LOT 17.32, 20, 21.21 & 21.22 OF BLOCK 1, PORTIONS OF LOTS 18, 21.12, 112, & 120 OF BLOCK 1, TOWN OF GOSHEN, ORANGE COUNTY, NEW YORK. SHEET 1 OF 1, DATED 3/20/2024, BY DRESDNER ROBIN OF JERSEY CITY, NEW JERSEY.
 - HORIZONTAL DATUM IS REFERENCED TO NEW YORK STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM (NAD 83), US SURVEY FEET.
 - VERTICAL DATUM BASED UPON NYGEOD 12 GRS80, US SURVEY FEET. CONTOUR INTERVAL IS ONE FOOT.



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SCALE IN FEET

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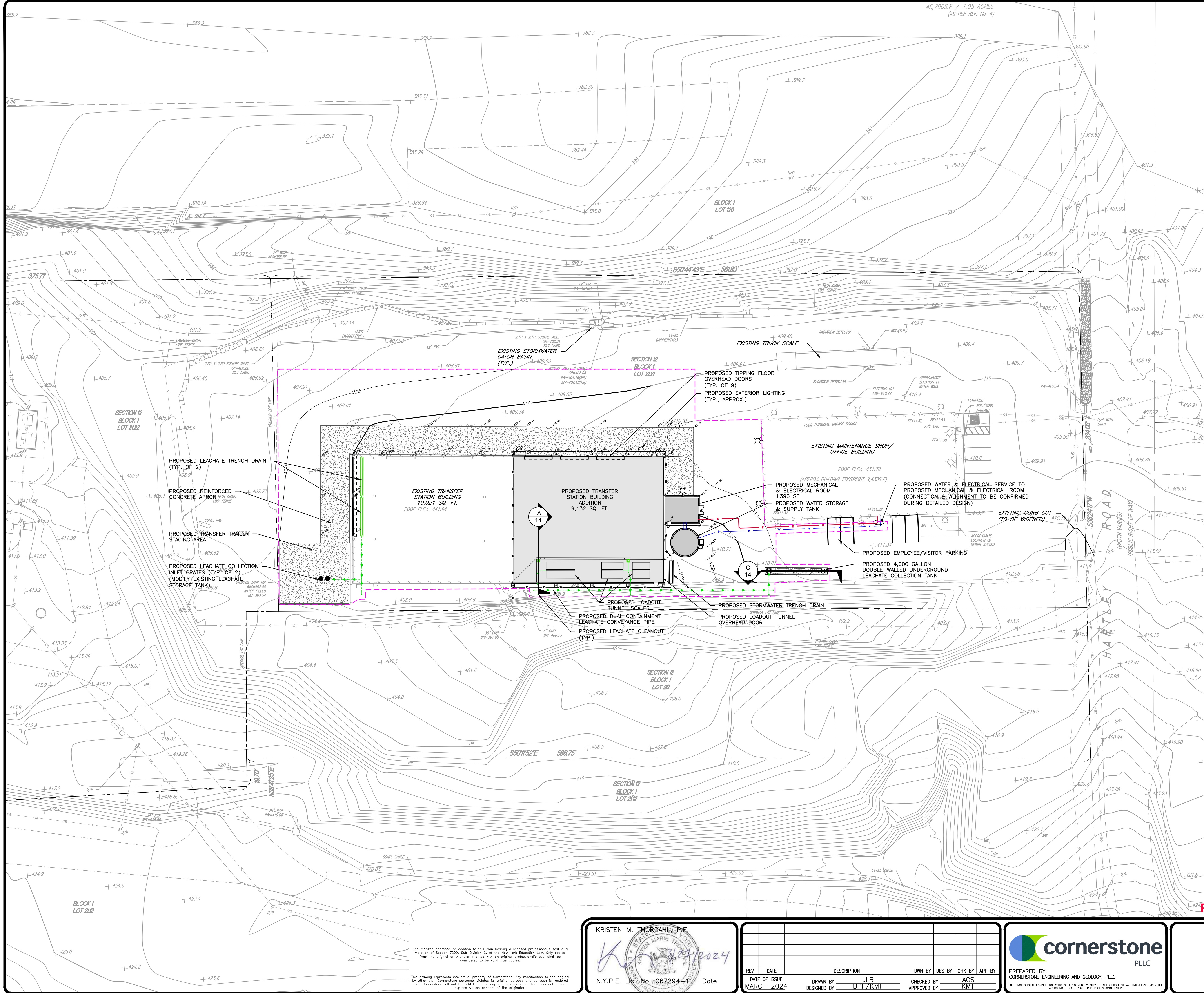
KRISTEN M. THORBAKE, P.E.
N.Y.P.E. License No. 067294-1
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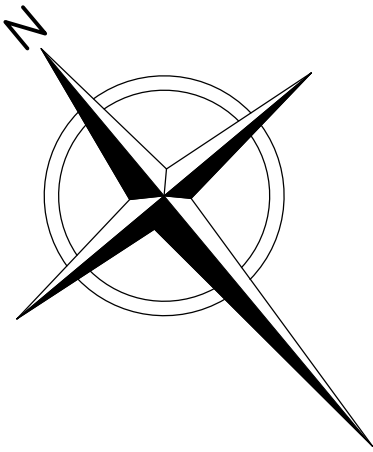
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95 HARTLEY ROAD, GOSHEN, NEW YORK
**PROPOSED FACILITY MODIFICATIONS
EXISTING SITE PLAN**

SHEET NO.
5
PROJECT NO.
4223429



- LEGEND**
- PROPERTY LINE
 - ADJACENT PROPERTY LINE
 - EASEMENT LINE
 - RIGHT OF WAY LINE
 - EXISTING MINOR CONTOURS
 - EXISTING MAJOR CONTOURS (AS LABELED)
 - EXISTING GROUND ELEVATION
 - EXISTING EDGE OF PAVEMENT
 - EXISTING EDGE OF GRAVEL
 - EXISTING FENCE LINE
 - EXISTING CONCRETE
 - EXISTING BUILDING
 - EXISTING TREE LINE
 - EXISTING GUIDE RAIL
 - EXISTING CURB LINE
 - EXISTING OVERHEAD WIRE
 - EXISTING UTILITY POLE
 - EXISTING CULVERT
 - PROPOSED MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - PROPOSED STRUCTURE
 - PROPOSED DUAL CONTAINMENT LEACHATE CONVEYANCE PIPE
 - PROPOSED LEACHATE TRENCH DRAIN
 - PROPOSED REINFORCED CONCRETE PAD
 - PROPOSED STORMWATER MANAGEMENT PIPING
 - PROPOSED STORMWATER TRENCH DRAIN
 - LIMIT OF DISTURBANCE (APPROXIMATE)

- NOTES:**
- SEE PLAN SHEET 5 OF THIS PLAN SET FOR LEGEND AND BASE MAP NOTES.
 - ANY IMPORTED TOPSOIL SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.
 - OFF-SITE DISPOSAL OF EXCESS CUT SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.



0 30 60
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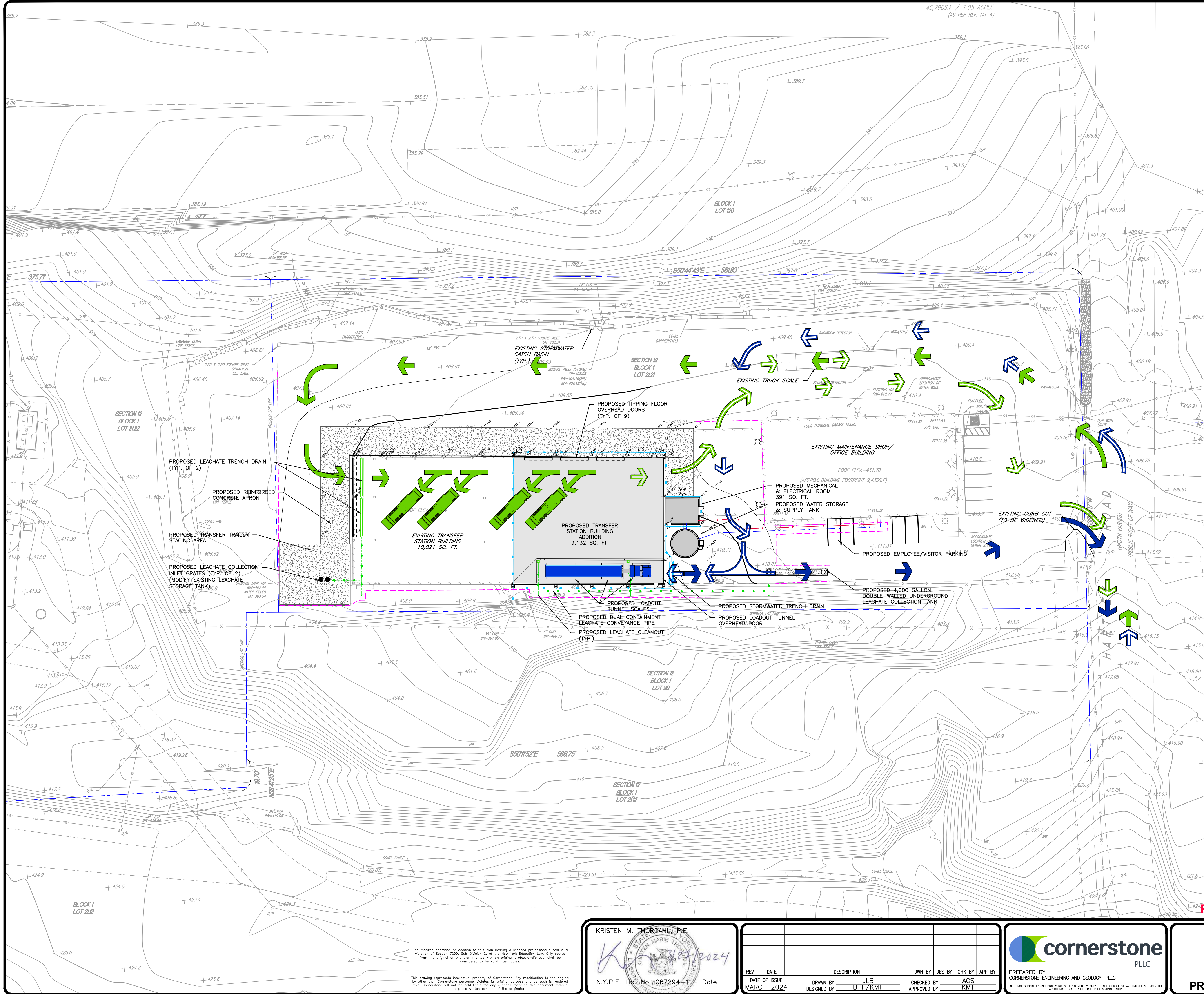
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**PROPOSED FACILITY MODIFICATIONS
PROPOSED SITE PLAN**

SHEET NO.

6

PROJECT NO.
4223429

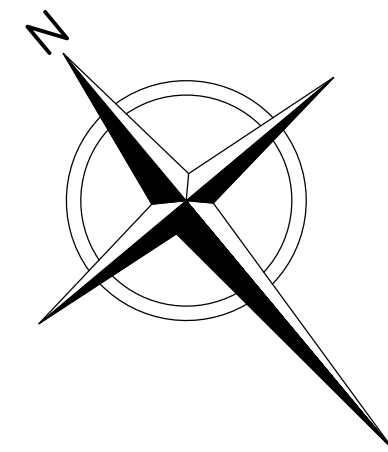


LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- EASEMENT LINE
- RIGHT OF WAY LINE
- EXISTING MINOR CONTOURS
- EXISTING MAJOR CONTOURS (AS LABELED)
- EXISTING GROUND ELEVATION
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING FENCE LINE
- EXISTING CONCRETE
- EXISTING BUILDING
- EXISTING TREE LINE
- EXISTING GUIDE RAIL
- EXISTING CURB LINE
- EXISTING OVERHEAD WIRE
- EXISTING UTILITY POLE
- EXISTING CULVERT
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED STRUCTURE
- PROPOSED DUAL CONTAINMENT LEACHATE CONVEYANCE PIPE
- PROPOSED LEACHATE TRENCH DRAIN
- PROPOSED REINFORCED CONCRETE PAD
- PROPOSED STORMWATER MANAGEMENT PIPING
- PROPOSED STORMWATER TRENCH DRAIN
- LIMIT OF DISTURBANCE (APPROXIMATE)
- TRANSFER VEHICLE
- TIPPING VEHICLE
- LOADED TIPPING VEHICLE FLOW PATH
- EMPTY TIPPING VEHICLE FLOW PATH
- LOADED TRANSFER VEHICLE FLOW PATH
- EMPTY TRANSFER VEHICLE FLOW PATH

NOTES:

- SEE PLAN SHEET 5 OF THIS PLAN SET FOR LEGEND AND BASE MAP NOTES.



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PROPOSED FACILITY MODIFICATIONS
PROPOSED VEHICLE CIRCULATION PLAN

SHEET NO.

7

PROJECT NO.
4223429

- NOTES:**
1. SEE PLAN SHEET 5 OF THIS PLAN SET FOR LEGEND AND BASE MAP NOTES.

NOTES:

1. SEE PLAN SHEET 5 OF THIS PLAN SET FOR LEGEND AND BASE MAP NOTES.



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SHEET NO.
8
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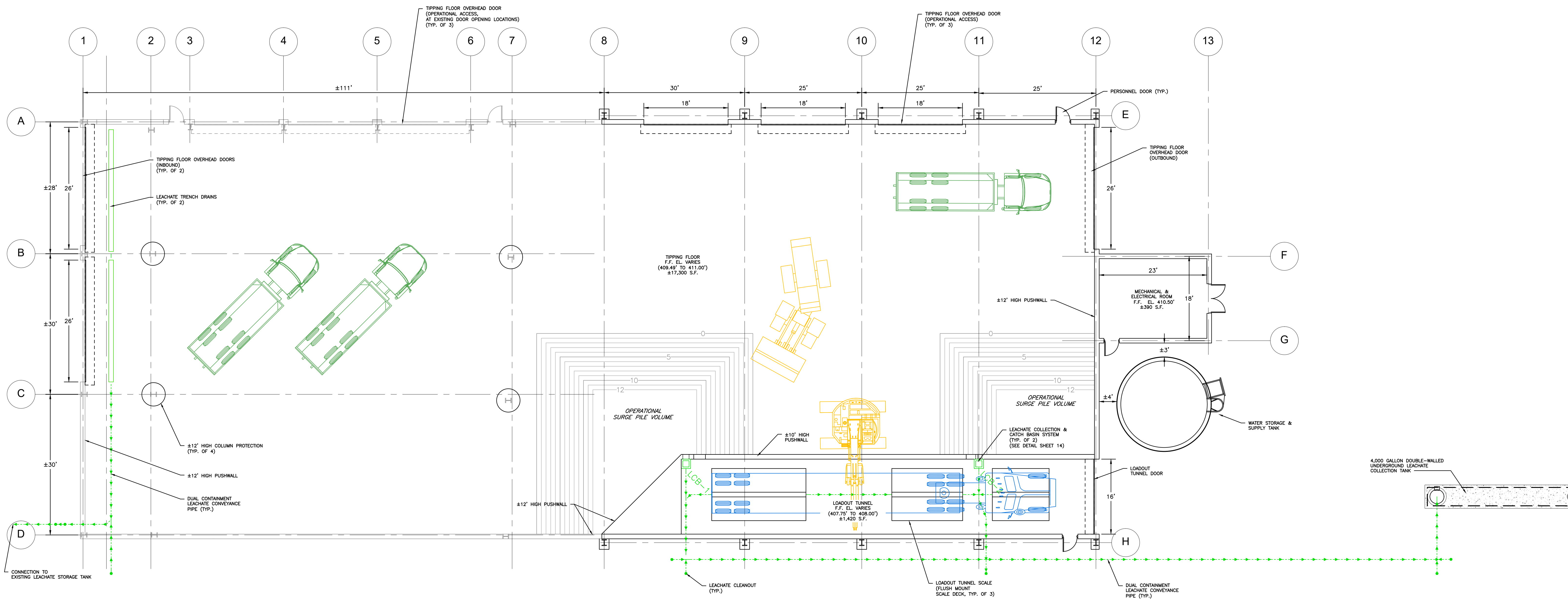
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SHEET NO.
9
PROJECT NO.
4223429

File: A:\PROJECTS\W\Goshen\4223429 - TRANSFER STATION DESIGN\Plan Set\4223429-S-10-PROPOSED OPERATIONS FLOOR PLAN.dwg Layout: SHEET 10 User: b.jednorofski Date: Mar 26, 2024 - 5:27pm



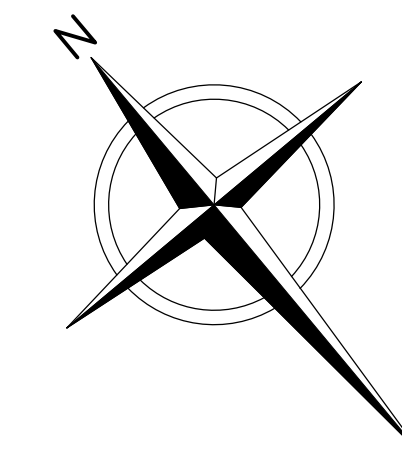
FLOOR PLAN

SCALE: 1" = 10'

1
10

NOTES:

1. THE LOCATIONS OF EMERGENCY EQUIPMENT, INCLUDING FIRE EXTINGUISHERS AND FIRE ALARM PULL BOXES, WILL BE IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODES AND NFPA REQUIREMENTS.



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95 HARTLEY ROAD, GOSHEN, NEW YORK

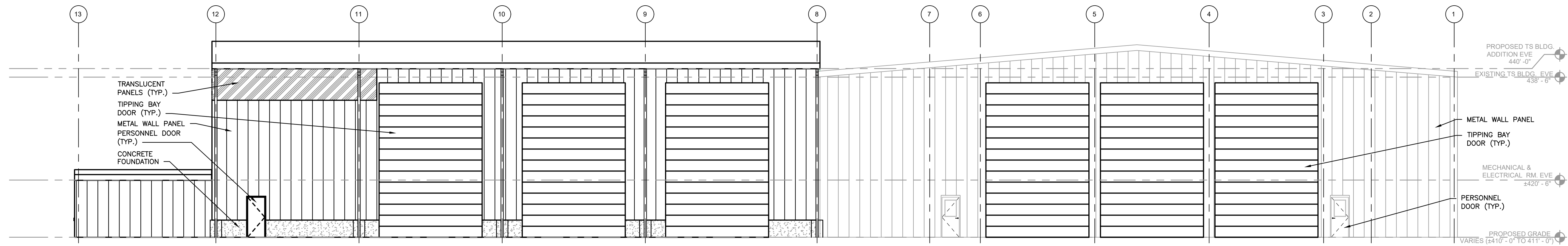
PROPOSED FACILITY MODIFICATIONS
PROPOSED OPERATIONS FLOOR PLAN

SHEET NO.

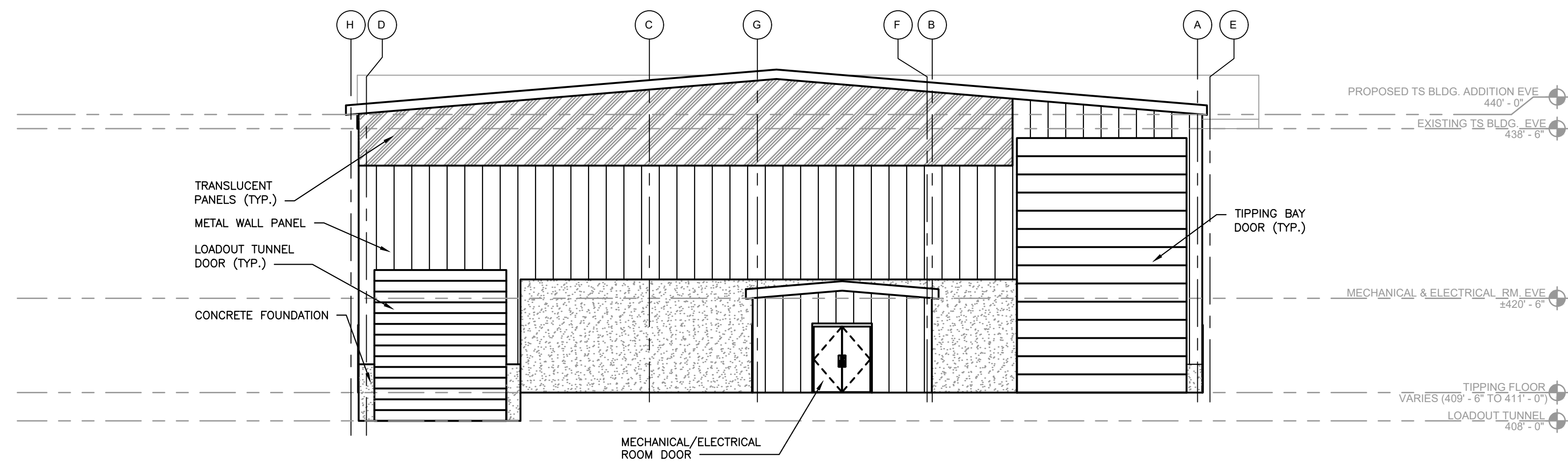
10

PROJECT NO.

4223429



NORTH
ELEVATION 1
SCALE: 1"=10'-0"



EAST
ELEVATION 2
SCALE: 1"=10'-0"

1" 1/2" 0" 1"

File: A:\PROJECTS\Goshen\Goshen_V223429 - TRANSFER STATION DESIGN\Drawings\Drawings.dwg Layout: SHEET 11 User: b.piedmont@cornerstone.com May 26, 2024 - 8:04am

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BODHI A. PIEDMONT-LEISCHMANN, P.E.

[Signature] 2024

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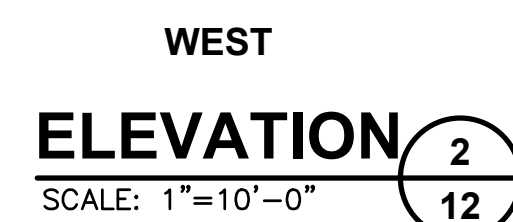
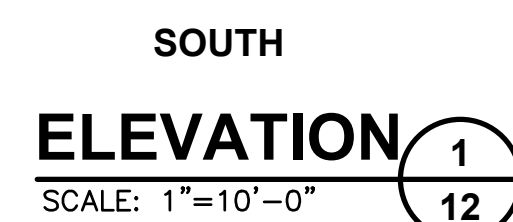
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GOSHEN TRANSFER STATION
95 HARTLEY ROAD, GOSHEN, NEW YORK

PROPOSED FACILITY MODIFICATIONS
PROPOSED BUILDING ELEVATIONS

SHEET NO.
11

PROJECT NO.
4223429



SHEET NO.
12
PROJECT NO.
4223429

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  12/31/2024

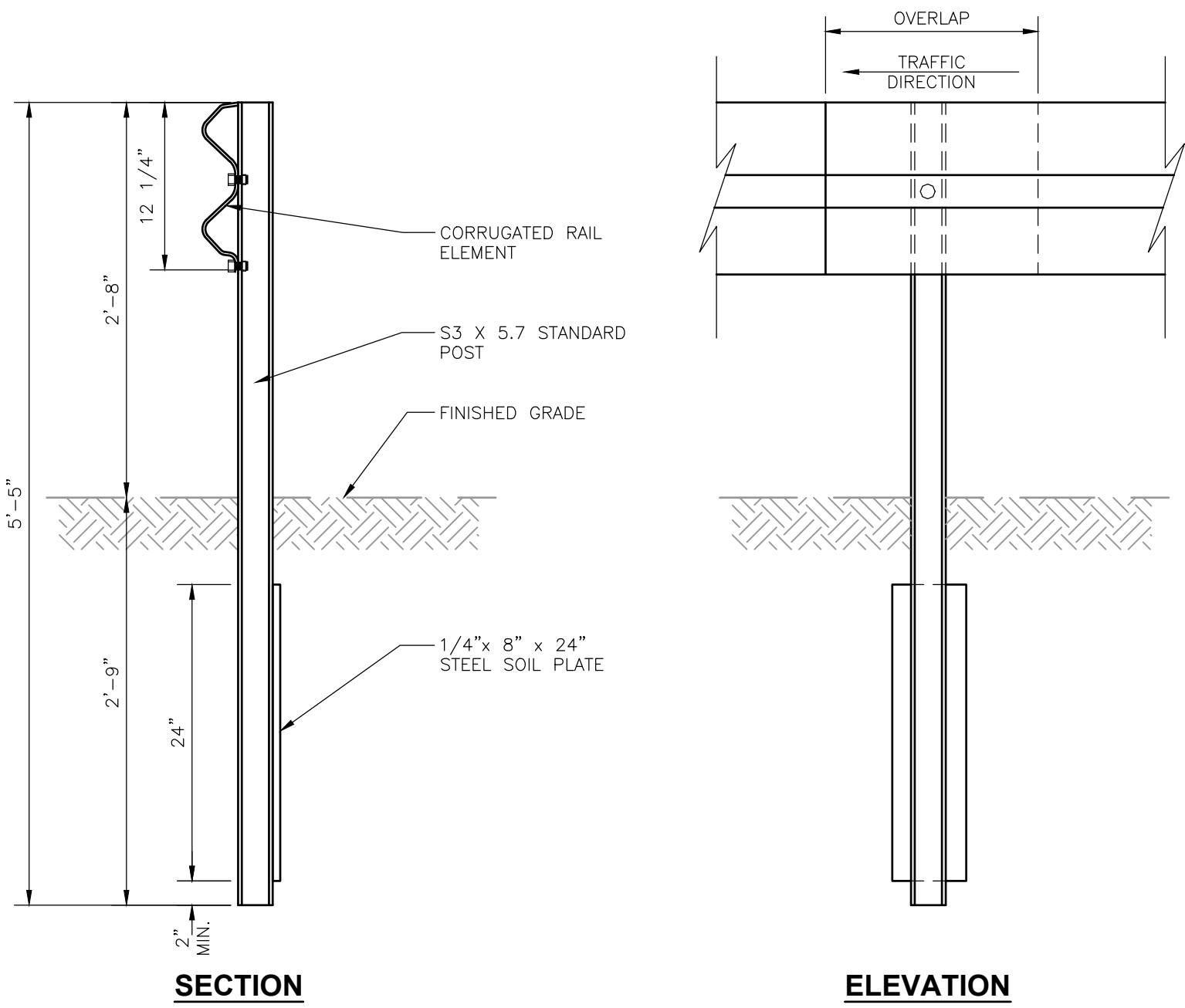
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[illegible]

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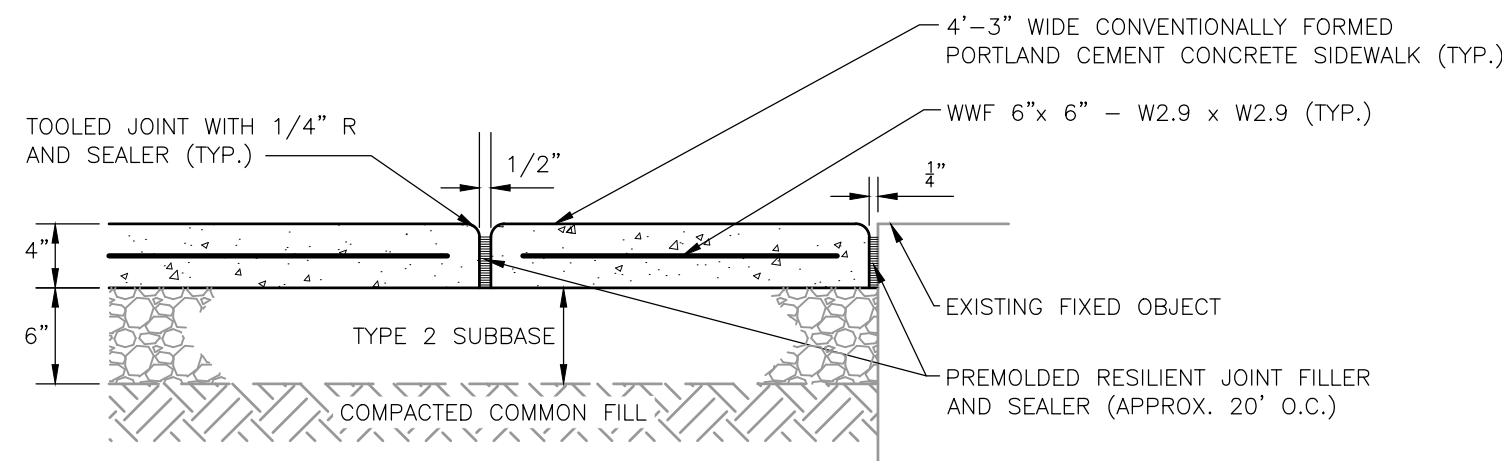
- NOTES:
- GUIDE RAIL SHALL BE IN ACCORDANCE WITH NYSDOT CORRUGATED BEAM GUIDE RAIL, U.S. CUSTOMARY STANDARD SHEET 606-07.
 - GUIDE RAIL SHALL MEET ALL REQUIREMENTS OF THE LATEST EDITION OF THE NYSDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 710-20.
 - ALL RAIL SPLICES TO OVERLAP IN THE DIRECTION OF TRAFFIC FLOW.

W-BEAM GUIDE RAIL

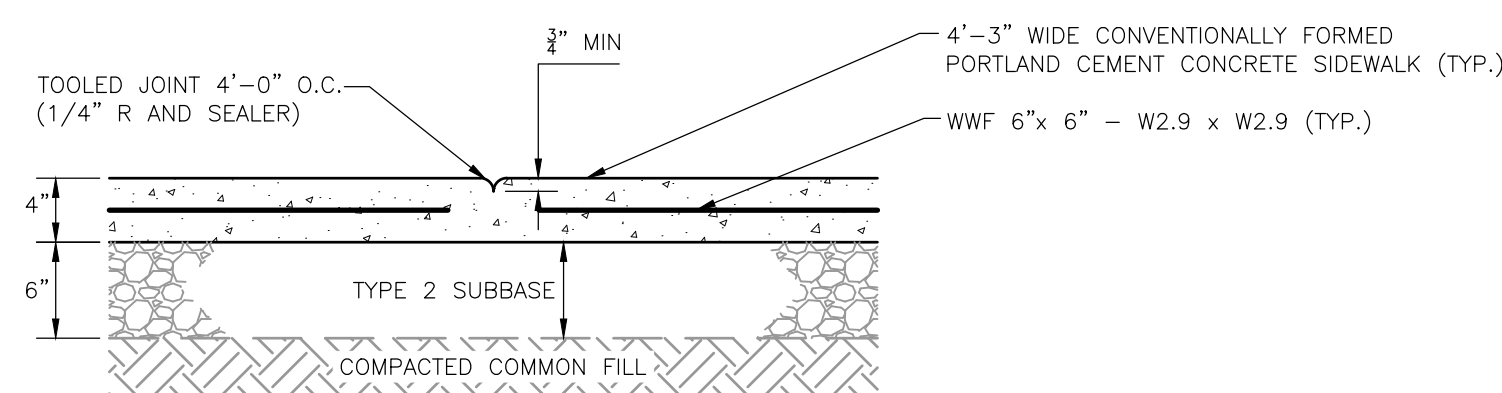
DETAIL

SCALE: 1"=1'

1
13



EXPANSION JOINT



CONTRACTION JOINT

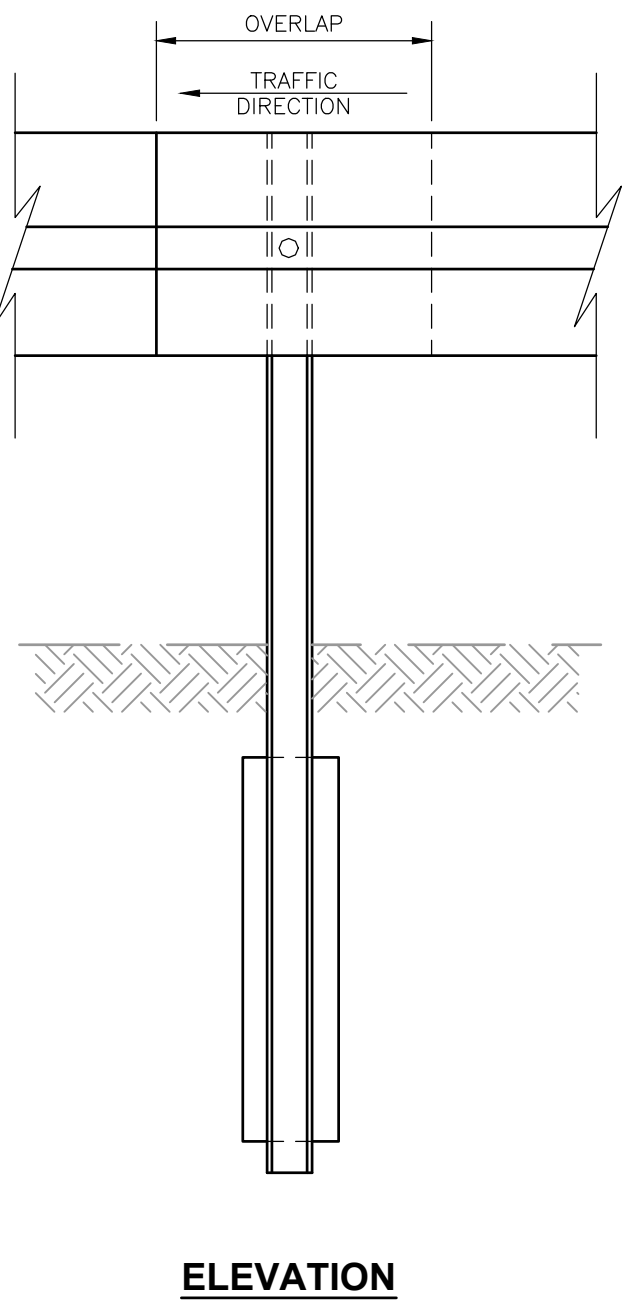
- NOTES:
- MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JANUARY 12, 2012, AND ALL ADDENDA THERETO; THE ONLY EXCEPTION BEING THAT THE WORK OF THIS CONTRACT SHALL BE MEASURED IN ENGLISH UNITS.
 - SIDEWALK CONSTRUCTION AND MATERIALS SHALL CONFORM WITH SECTION 608 - SIDEWALKS, DRIVEWAYS, BICYCLE PATHS, AND VEGETATION CONTROL STRIPS OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
 - PREMOLDED RESILIENT JOINT FILLER SHALL CONFORM WITH SECTION 705-07 - PREMOLDED RESILIENT JOINT FILLER OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
 - ALL EXPOSED SURFACES TO HAVE BROOMED TEXTURE.
 - JOINTS SHALL NOT BE SAW CUT.

CONCRETE SIDEWALK

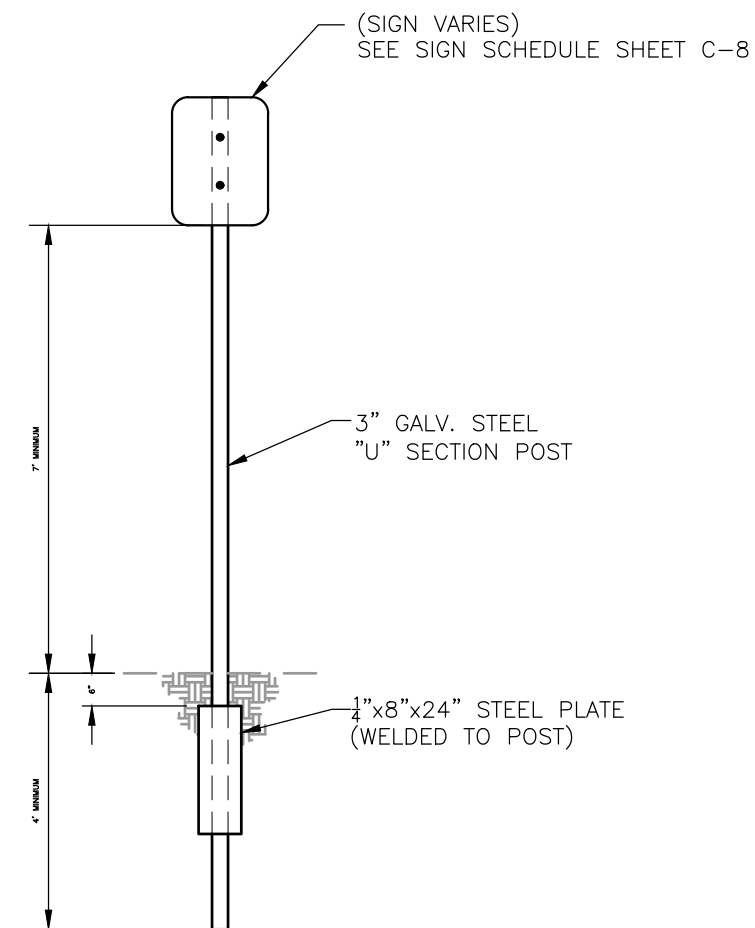
DETAIL

SCALE: N.T.S.

6
13



ELEVATION



NOTES:

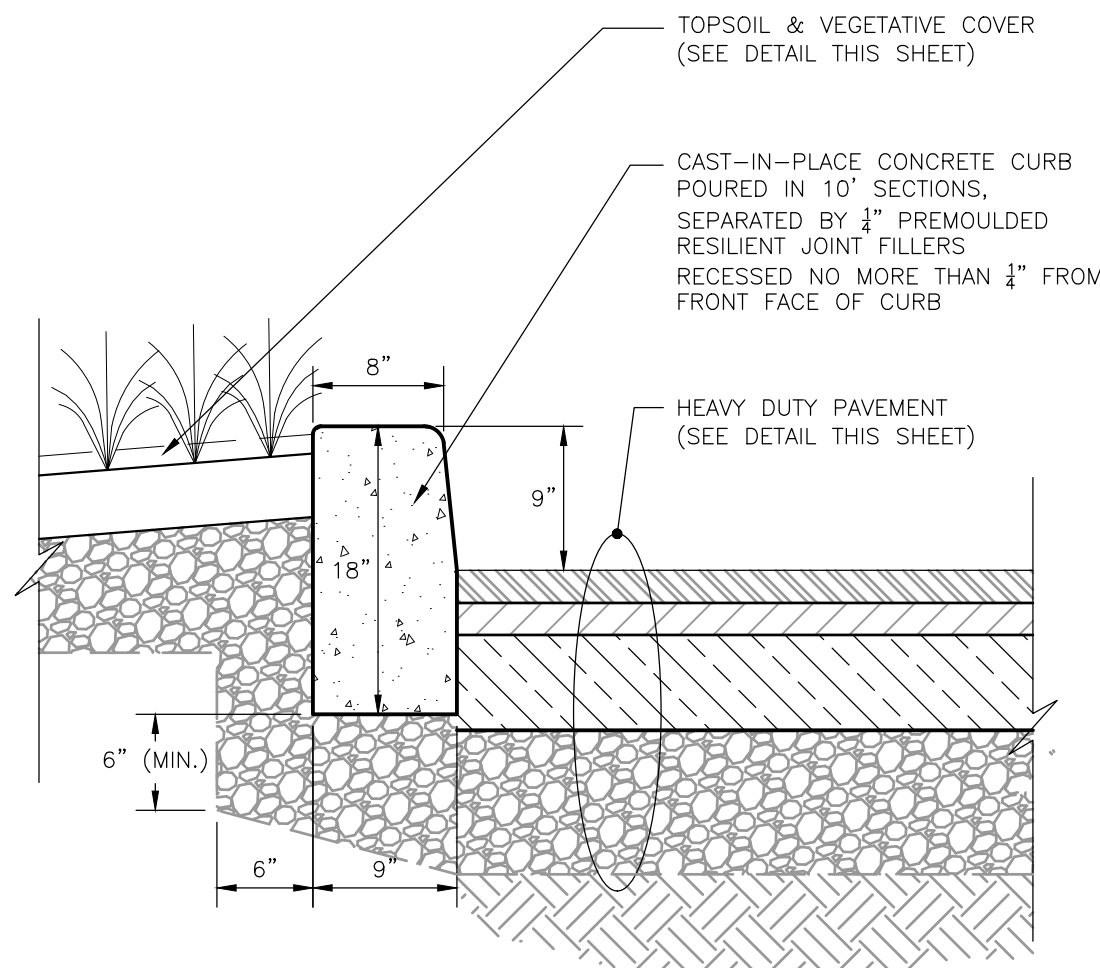
- SIGN MOUNTING HEIGHT SHALL BE A MINIMUM OF 7'. MINIMUM MOUNTING HEIGHT MAY BE ADJUSTED ONLY IN ACCORDANCE WITH PROVISIONS OUTLINED IN THE STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS."
- SIGN POST SHALL BE IN ACCORDANCE W/ NYSDOT STANDARD SHEET 645-01.

SINGLE POST SIGN MOUNTING

DETAIL

SCALE: 1"=3'

2
13



NOTES:

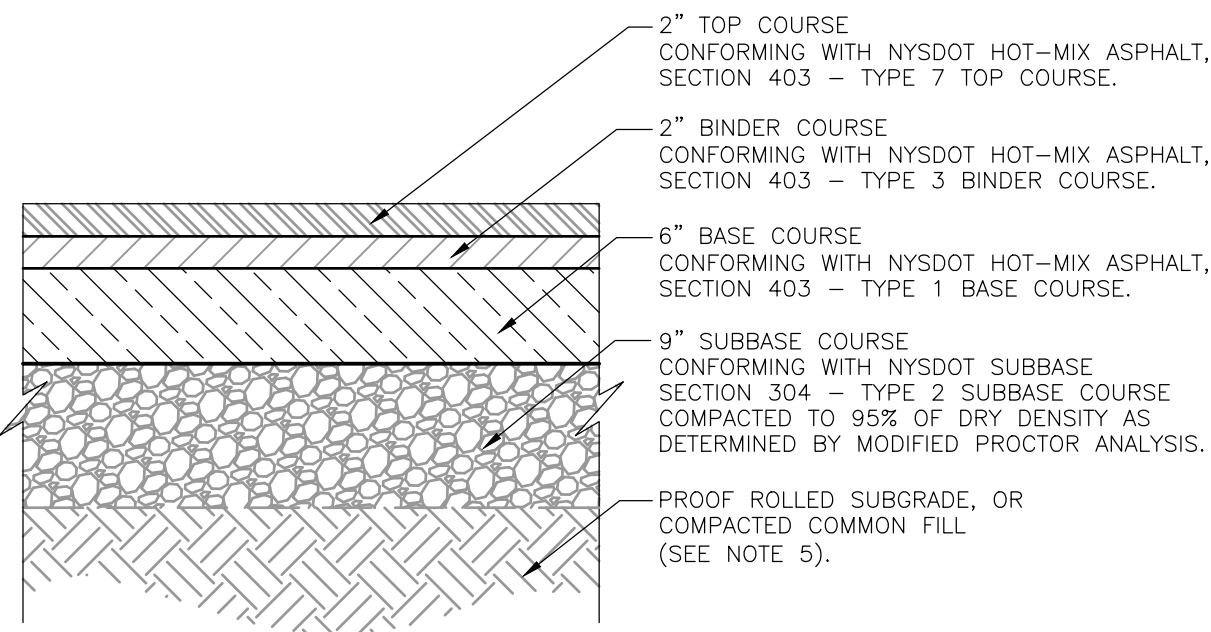
- MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JANUARY 12, 2012, AND ALL ADDENDA THERETO; THE ONLY EXCEPTION BEING THAT THE WORK OF THIS CONTRACT SHALL BE MEASURED IN ENGLISH UNITS.
- CURB CONSTRUCTION AND MATERIALS SHALL CONFORM WITH SECTION 609 - CURB AND CURB & GUTTER OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
- PREMOLDED RESILIENT JOINT FILLER SHALL CONFORM WITH SECTION 705-07 - PREMOLDED RESILIENT JOINT FILLER OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
- PRECAST CONCRETE CURB MAY BE SUBSTITUTED WHEN ALTERNATE CONSTRUCTION DETAILS ARE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

TYPICAL CONCRETE CURB

DETAIL

SCALE: 1" = 1'

7
13



NOTES:

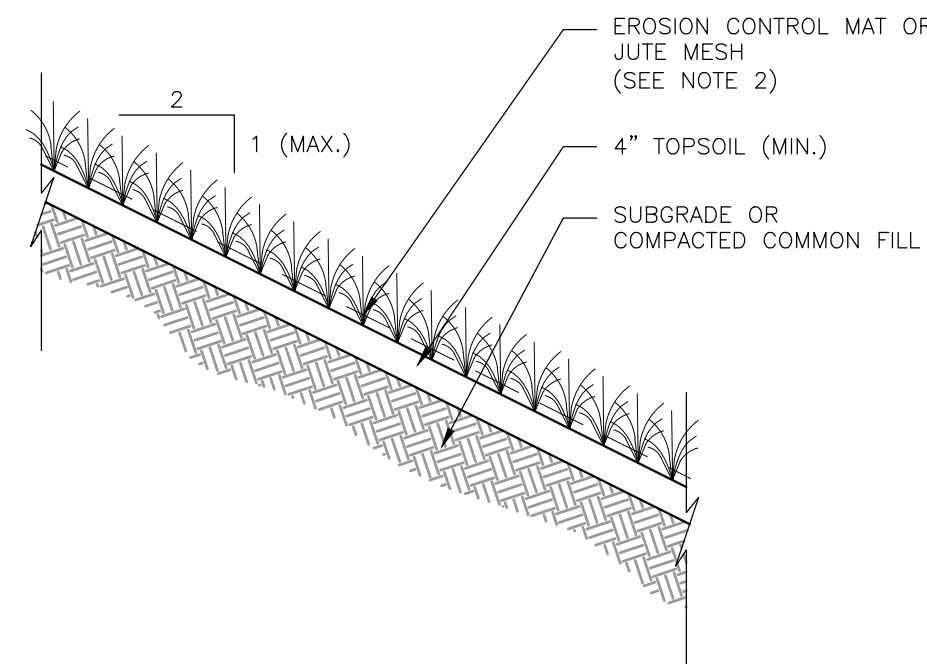
- MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JANUARY 12, 2012, AND ALL ADDENDA THERETO; THE ONLY EXCEPTION BEING THAT THE WORK OF THIS CONTRACT SHALL BE MEASURED IN ENGLISH UNITS.
- SUBBASE MATERIAL SHALL CONFORM WITH SECTION 304 - SUBBASE COURSE OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS.
- HOT MIX ASPHALT PAVEMENT SHALL CONFORM WITH SECTION 400-HOT MIX ASPHALT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS. ALTHOUGH SECTION 400 IN ITS ENTIRETY IS REFERENCED, THE HOT MIX ASPHALT PAVEMENT(S) SPECIFIED FOR THIS CONTRACT SHALL BE AS SPECIFIED UNDER SECTION 403-HOT MIX ASPHALT PAVEMENTS FOR MUNICIPALITIES.
- TACK COAT WHEN SPECIFIED OR CALLED OUT IN THESE DRAWINGS OR REQUIRED BY THE REFERENCED SPECIFICATIONS SHALL CONFORM WITH SECTION 407-TACK COAT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
- WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSES OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 203-EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.

HEAVY DUTY PAVEMENT

SECTION

SCALE: 1"=1'

3
13



NOTES:

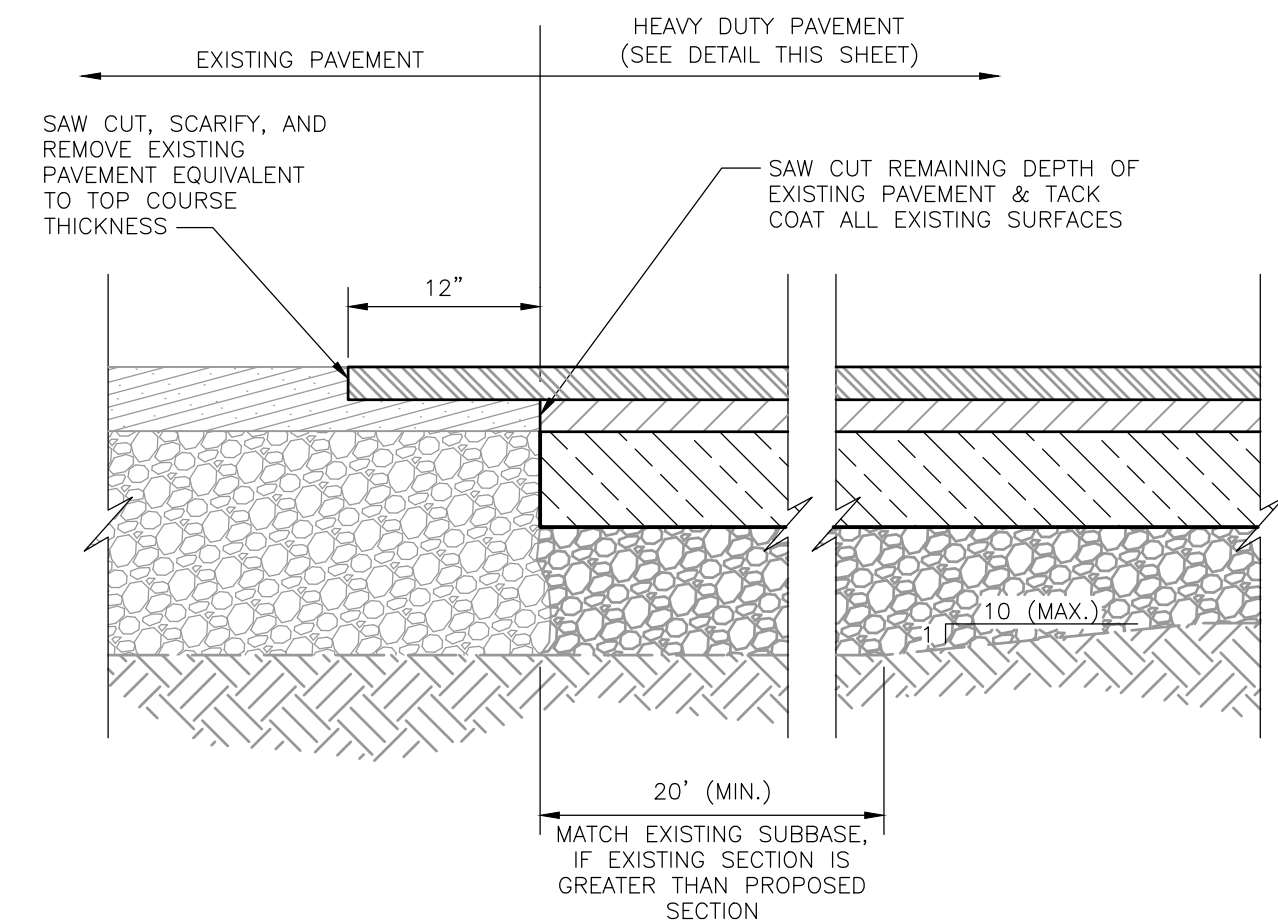
- APPLICATION OF FERTILIZER, SEED, AND MULCH TO BE APPLIED IN ACCORDANCE WITH THE SITE RESTORATION SPECIFICATION AND THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
- ON SLOPES STEEPER THAN 10%, EROSION CONTROL MAT TO BE INSTALLED IN COMPLIANCE WITH NYSDOT STANDARD SPECIFICATIONS. ON SLOPES SHALLOWER THAN 10%, JUTE MESH TO BE INSTALLED IN COMPLIANCE WITH NYSDOT STANDARD SPECIFICATIONS.
- ON SLOPES STEEPER THAN 2H:1V, SOIL REINFORCING MAY BE REQUIRED.

TOPSOIL & VEGETATIVE COVER

DETAIL

SCALE: 1"=2'

8
13

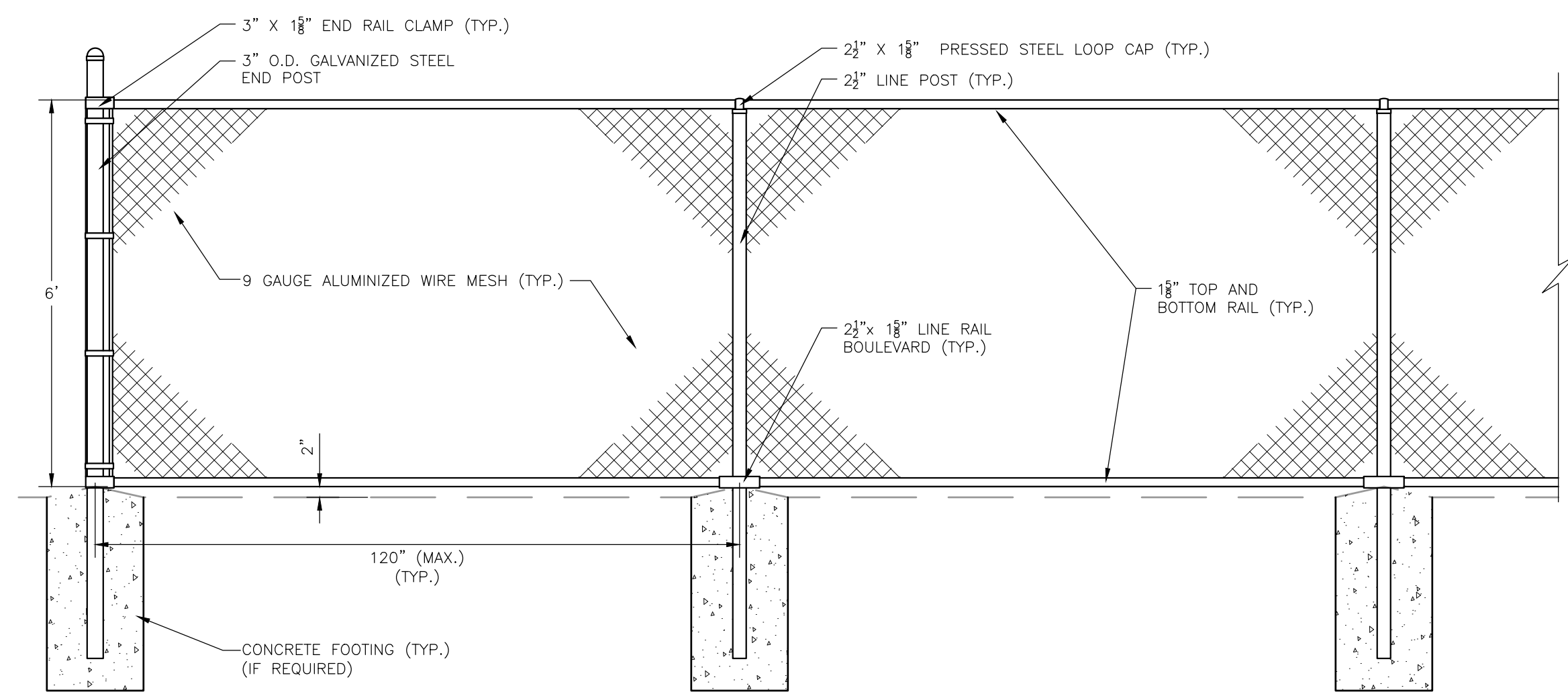


PAVEMENT TRANSITION

SECTION

SCALE: 1"=1'

5
13



CHAIN LINK FENCE

DETAIL

SCALE: 1"=2'

9
13

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I.W.S. TRANSFER SYSTEMS OF N.Y., INC.
GOSHEN TRANSFER STATION
95 HARTLEY ROAD, GOSHEN, NEW YORK

PROPOSED FACILITY MODIFICATIONS
PROPOSED SITE DETAILS

SHEET NO.

13

PROJECT NO.

4223429

KRISTEN M. THORBAHL, P.E.

KRISTEN M. THORBAHL, P.E.
N.Y.P.E. Lic. No. 067294-1

Date

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	MARCH 2024	DATE OF ISSUE				
2		DESIGNED BY	JLB		ACS	
3		CHECKED BY	BPF/KMT		KMT	
4		APPROVED BY				

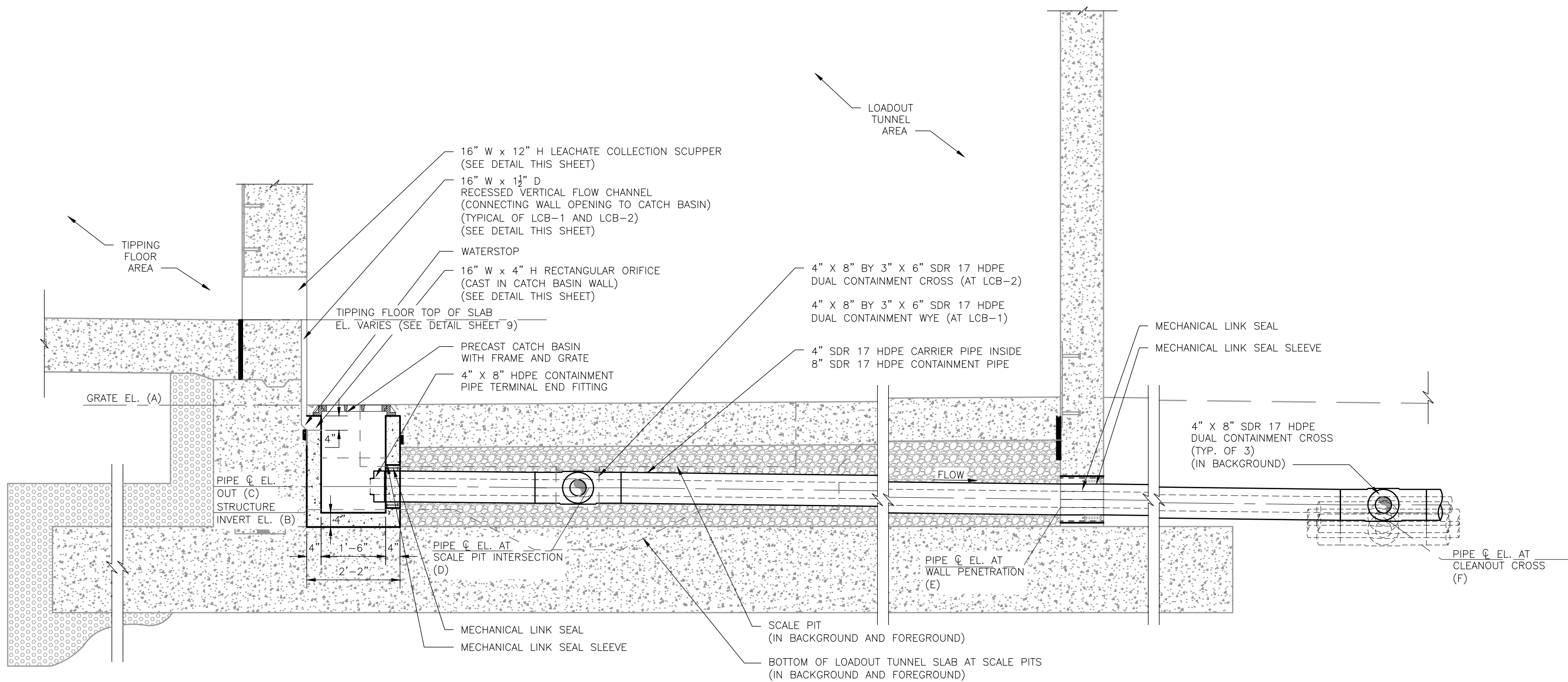
cornerstone
PLLC

PREPARED BY:
CORNERSTONE ENGINEERING AND GEOLOGY, PLLC

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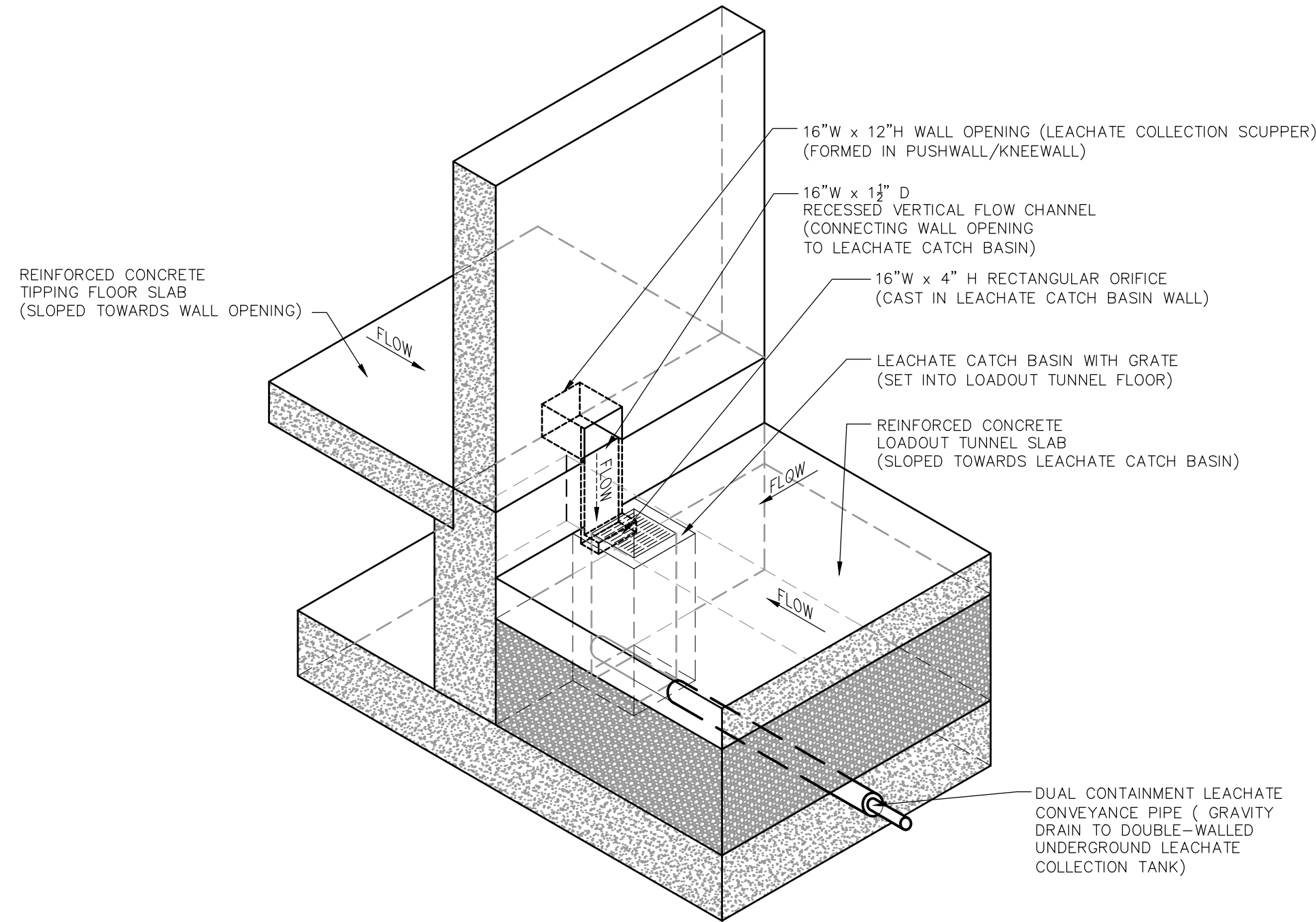
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STRUCTURE	GRATE EL. (A)	STRUCTURE INVERT EL. (B)	PIPE Ø EL. OUT (C)	PIPE Ø EL. AT SCALE PIT INTERSECTION (D)	PIPE Ø EL. AT WALL PENETRATION (E)	PIPE Ø EL. AT CLEANOUT CROSS (F)
LCB-1	407.75	405.25	405.79	405.70	405.55	405.44
LCB-2	407.75	405.25	404.44	405.70	404.75	404.16

- NOTES:
- FOR FURTHER CLARITY REGARDING HORIZONTAL ALIGNMENT OF STRUCTURES AND LEACHATE PIPING, SEE DETAIL SHEET 9, "PROPOSED GENERAL ARRANGEMENT FLOOR PLAN".
 - DEPICTED CATCH BASIN IS REPRESENTATIVE OF A 18" X 18" CATCH BASIN, MEETING H20 HIGHWAY LOADING.
 - FRAME AND GRATE MODEL 18" X 18", MEETING H20 HIGHWAY LOADING.
 - THE INTERIOR OF THE CATCH BASIN WILL BE INSTALLED WITH A CORROSION RESISTANT COATING OR LINING.



LEACHATE COLLECTION SCUPPER TO LEACHATE CATCH BASIN

ISOMETRIC

SCALE: N.T.S.

1

14

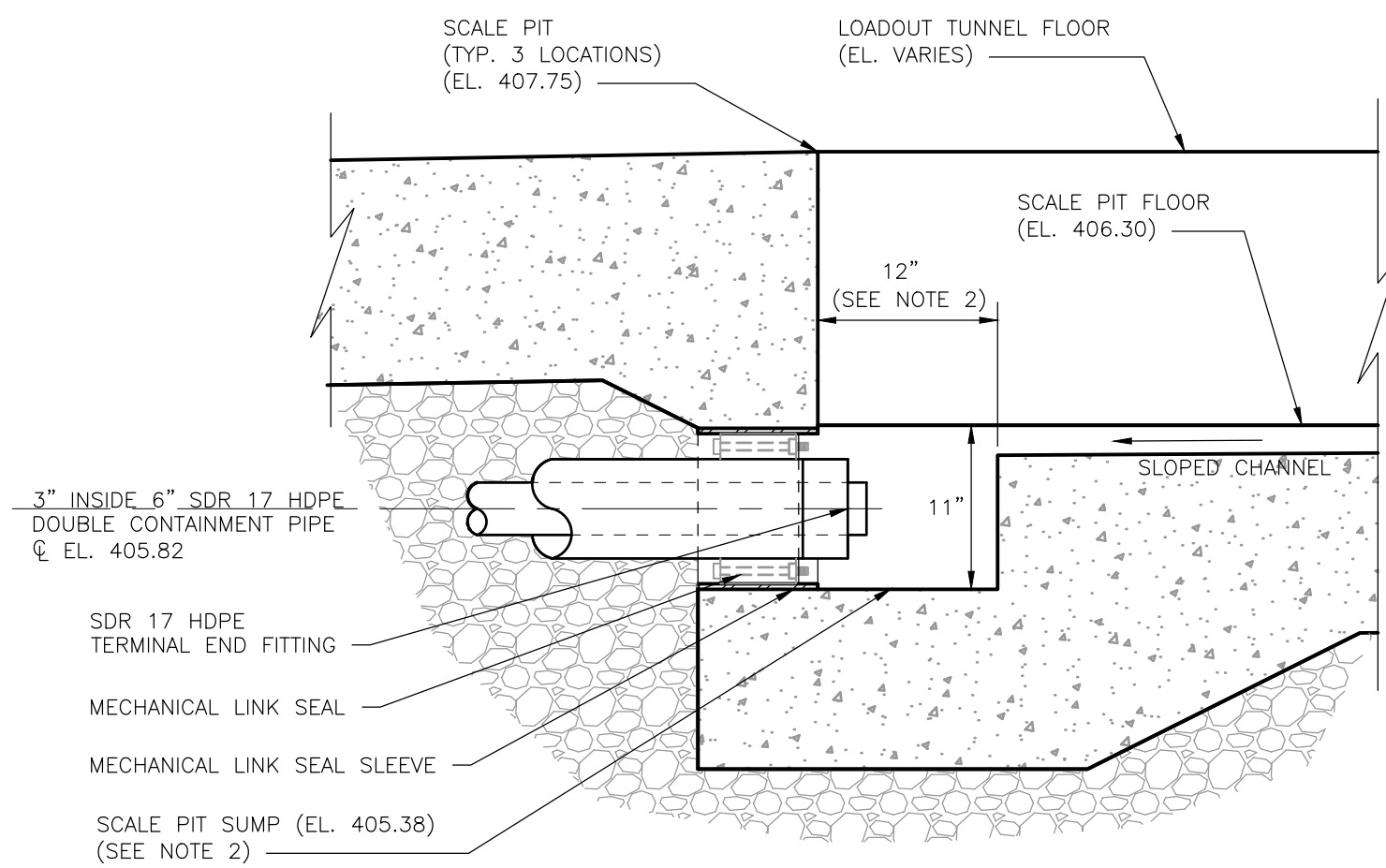
LEACHATE COLLECTION & CATCH BASIN SYSTEM

SECTION

SCALE: 1"= 2'

1

14



- NOTES:
- FOR FURTHER CLARITY REGARDING HORIZONTAL ALIGNMENT OF STRUCTURES AND LEACHATE CONVEYANCE PIPING, SEE DETAIL SHEET 9, "PROPOSED GENERAL ARRANGEMENT FLOOR PLAN".
 - THE SCALE PIT SUMP SHALL BE 12" WIDE AND 12" LONG (TYP.).

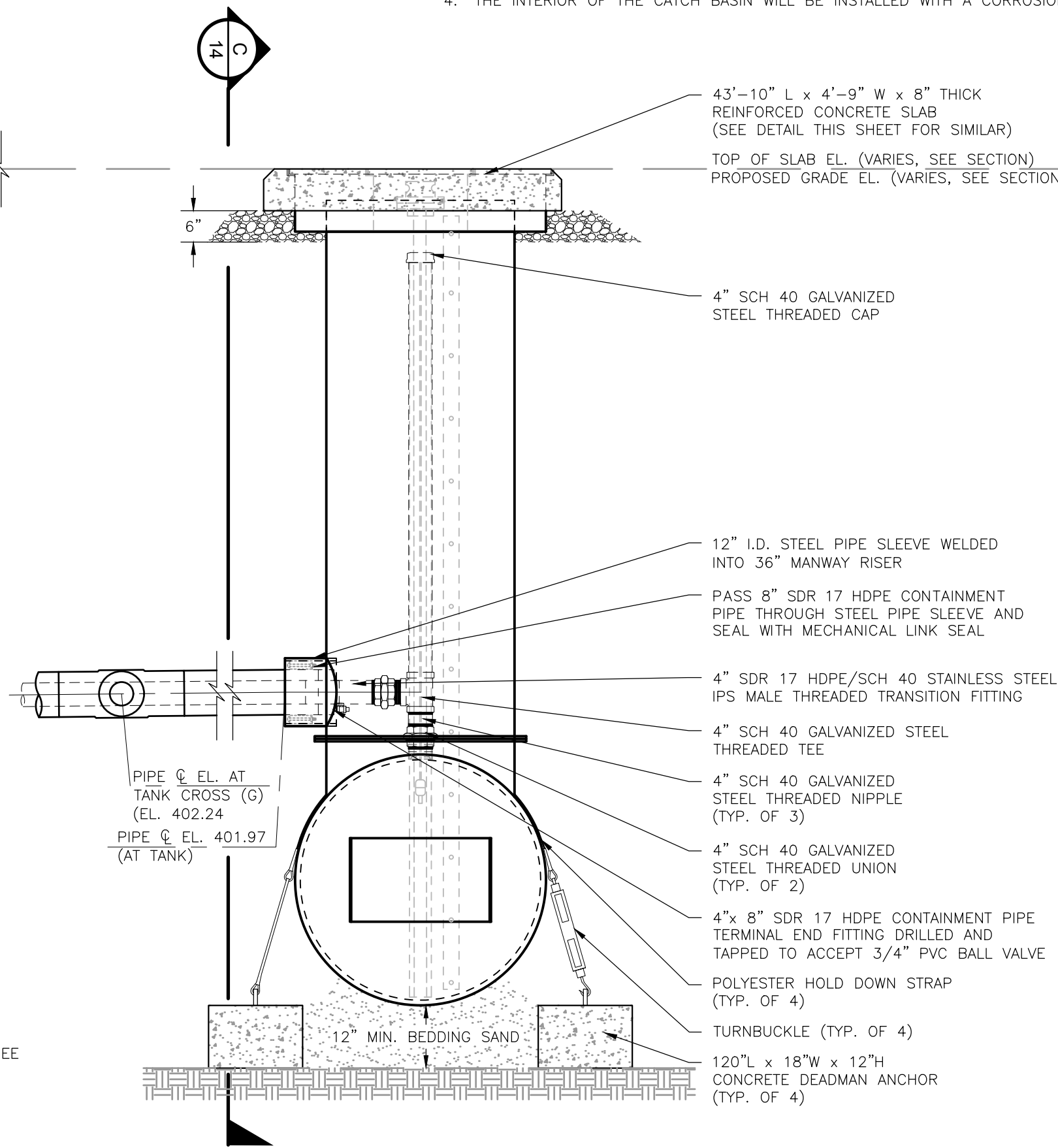
SCALE PIT SUMP & LEACHATE CONVEYANCE PIPE

DETAIL

SCALE: 1"= 1'

2

14



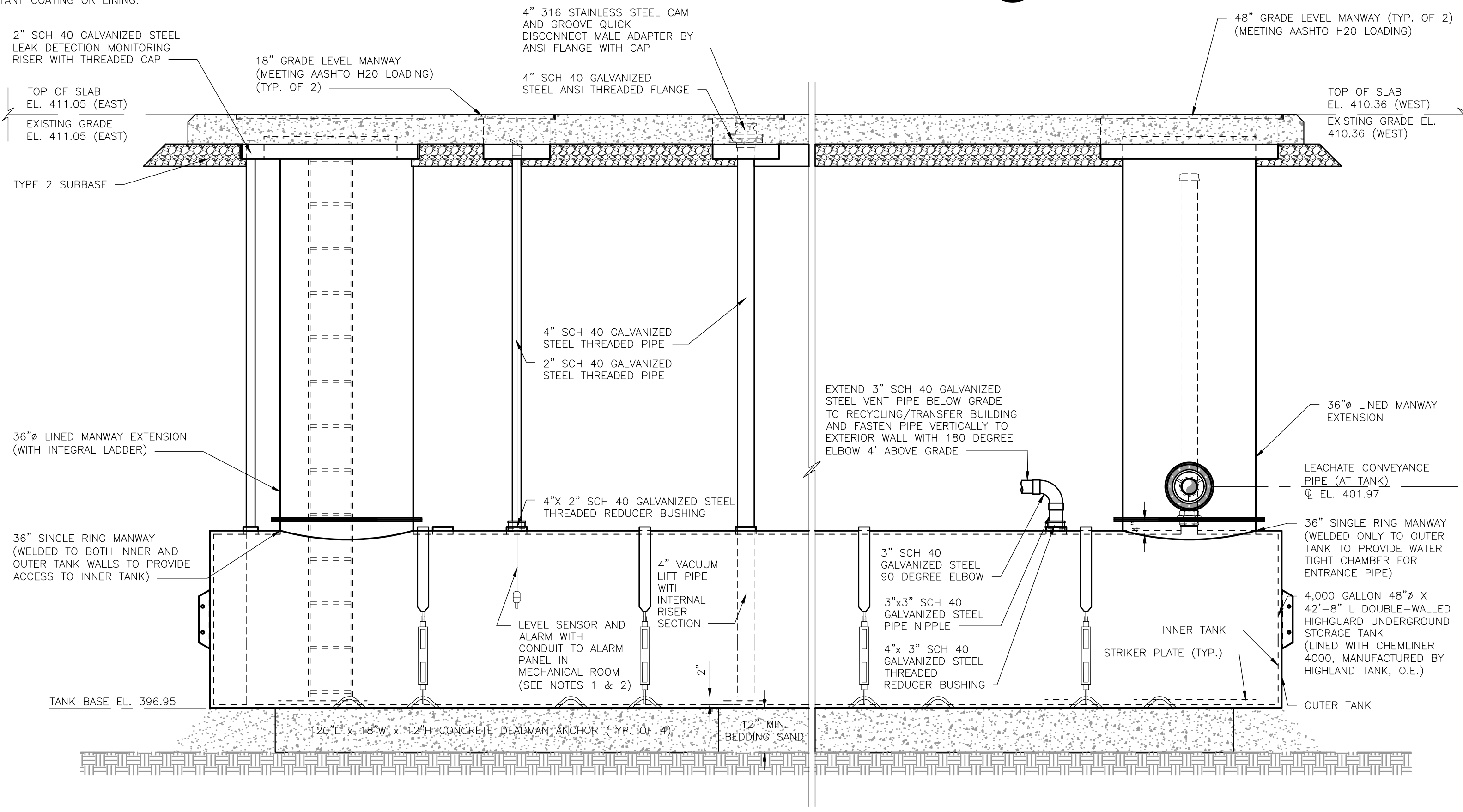
4,000 GALLON DOUBLE-WALLED UNDERGROUND LEACHATE COLLECTION TANK

SECTION

SCALE: 1"= 2'

B

14



- NOTES:
- LEVEL SENSOR TO BE SERIES HTF STANDARD TWO FLOAT SENSOR (AS MANUFACTURED BY HIGHLAND TANK, O.E.). INITIAL FLOAT TO BE INSTALLED AT AN ELEVATION TO TRIGGER A LEVEL ALARM WHEN THE LIQUID LEVEL IN THE TANK REACHES APPROXIMATELY 75% OF TANK CAPACITY BY VOLUME. SECOND FLOAT TO BE INSTALLED AT AN ELEVATION TO TRIGGER A HIGH LEVEL ALARM WHEN THE LIQUID LEVEL IN THE TANK REACHES APPROXIMATELY 90% OF TANK CAPACITY BY VOLUME.
 - LEVEL SENSOR TO BE CONNECTED TO TWO CHANNEL ALARM PANEL.
 - REINFORCED CONCRETE SLAB FOR LEACHATE STORAGE TANK TO BE REINFORCED WITH #5 BARS @ 12" O.C. EACH WAY, WITH TWO (2) ADDITIONAL #5 BARS AROUND OPENINGS.

4,000 GALLON DOUBLE-WALLED UNDERGROUND LEACHATE COLLECTION TANK

SECTION

SCALE: 1"=2'

C

14

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I.W.S. TRANSFER SYSTEMS OF N.Y., INC.
GOSHEN TRANSFER STATION
95 HARTLEY ROAD, GOSHEN, NEW YORK

PROPOSED FACILITY MODIFICATIONS
PROPOSED LEACHATE MANAGEMENT DETAILS

SHEET NO.

14

PROJECT NO.

4223429

KRISTEN M. THORBALE, P.E.



N.Y.P.E. License No. 067294-1 Date

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
	DATE OF ISSUE					
	MARCH 2024	DRAWN BY JLB			CHECKED BY ACS	
		DESIGNED BY BPF/KMT			APPROVED BY KMT	



PREPARED BY:
CORNERSTONE ENGINEERING AND GEOLOGY, PLLC
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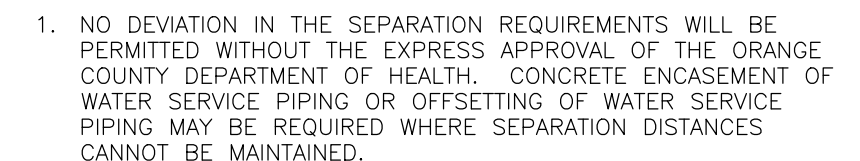
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1. ALL PIPING ABOVE THE FROST DEPTH ELEVATION TO BE HEAT TRACED AND INSULATED.

SCALE: 1" = 4"

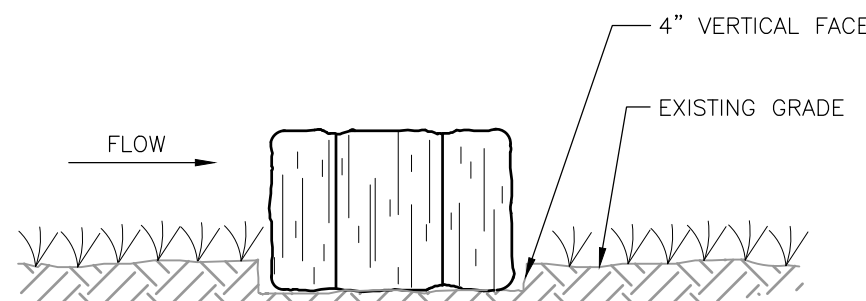
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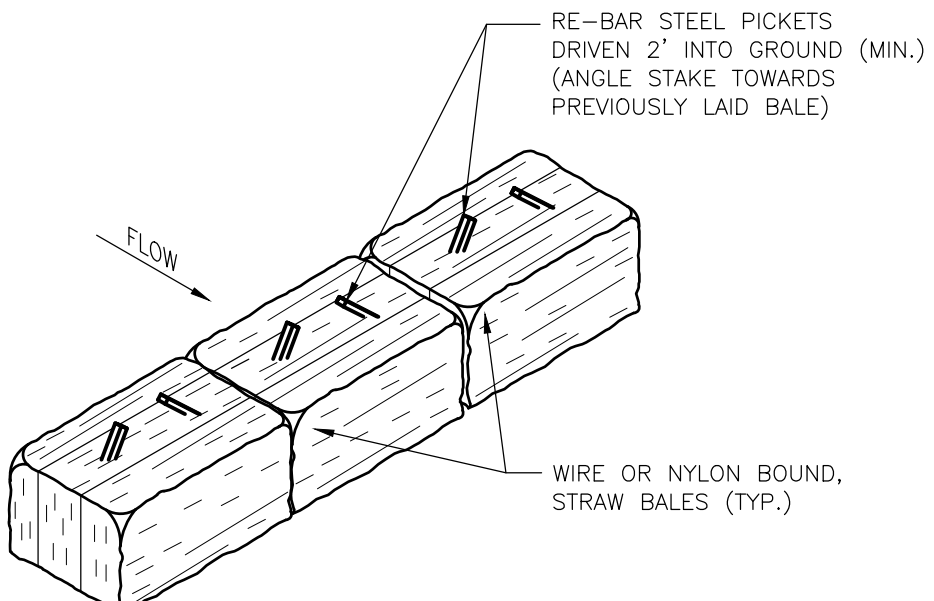
SCALE: NOT TO SCALE

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EMBEDDING VIEW



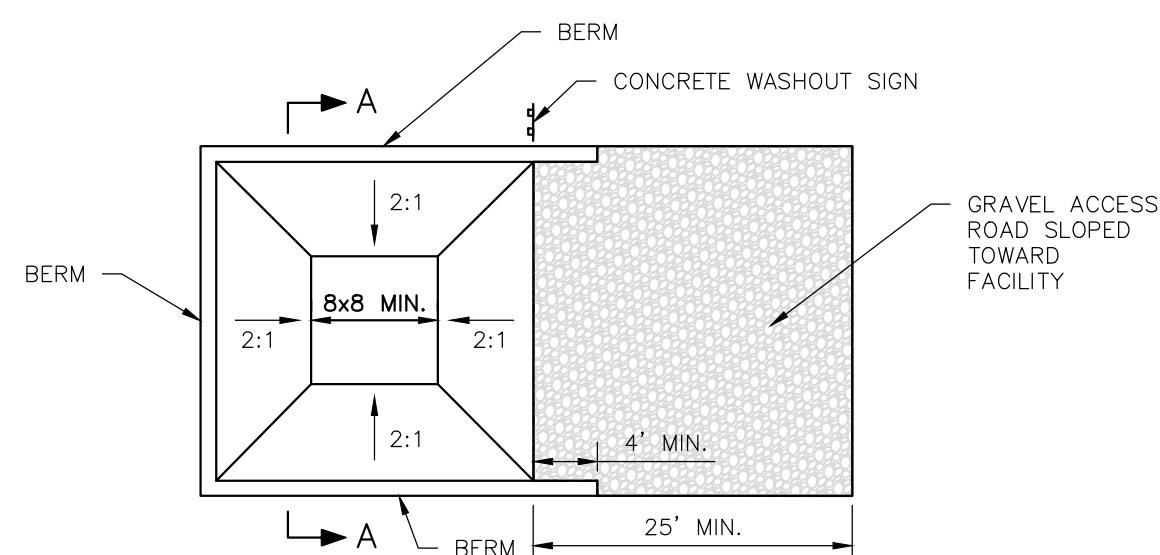
ISOMETRIC VIEW

STRAW BALE

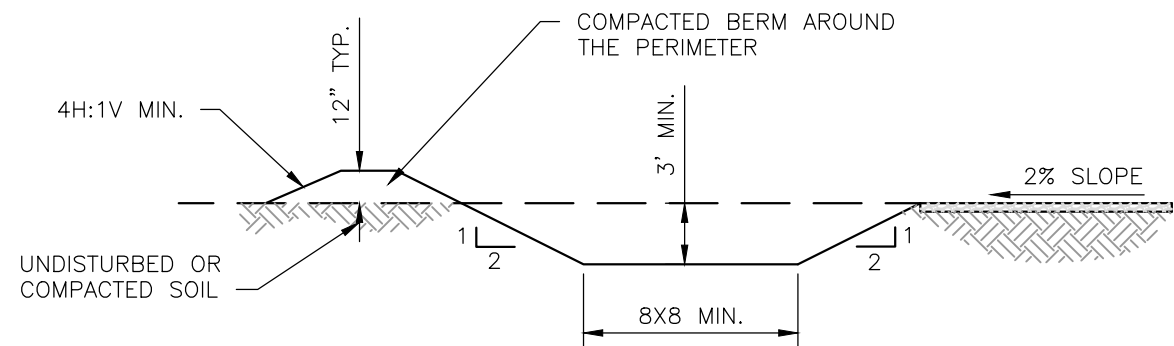
DETAIL

SCALE: N.T.S.

1
16



PLAN



SECTION "A"

NOTES:

1. LOCATE THE FACILITY A MINIMUM OF 100 FEET FROM DRAINAGE SWALES, STORM DRAIN INLETS, WETLANDS, STREAMS AND OTHER SURFACE WATER.
2. PREVENT SURFACE WATER FROM ENTERING THE STRUCTURE EXCEPT FOR THE ACCESS ROAD.
3. PROVIDE A GRAVEL ACCESS ROAD TO FACILITY THAT IS SLOPED DOWN TO FACILITY.
4. SIGNS SHALL BE PLACED TO DIRECT DRIVERS TO THE FACILITY AFTER THEIR LOAD IS DISCHARGED.
5. ALL WASHOUT FACILITIES SHALL BE LINED TO PREVENT LEACHING OF LIQUIDS INTO THE GROUND. THE LINER SHALL BE PLASTIC SHEETING HAVING A MINIMUM THICKNESS OF 10 MILS WITH NO HOLES OR TEARS, AND ANCHORED BEYOND THE TOP OF THE PIT WITH AN EARTHEN BERM, SAND BAGS, STONE, OR OTHER STRUCTURAL APPURTENANCES EXCEPT AT THE ACCESS POINT.
6. PREFABRICATED WASHOUT FACILITIES CAN BE USED BUT THEY MUST CAPTURE AND CONTAIN CONCRETE WASH AND BE SIMILARLY SIZED AS SHOWN ABOVE AND LOCATED AS NOTED ABOVE.
7. WASH WATER IS ESTIMATED TO BE 7 GALLONS PER CHUTE AND 50 GALLONS PER HOPPER OF A PUMP TRUCK AND/OR DISCHARGING DRUM.

MAINTENANCE:

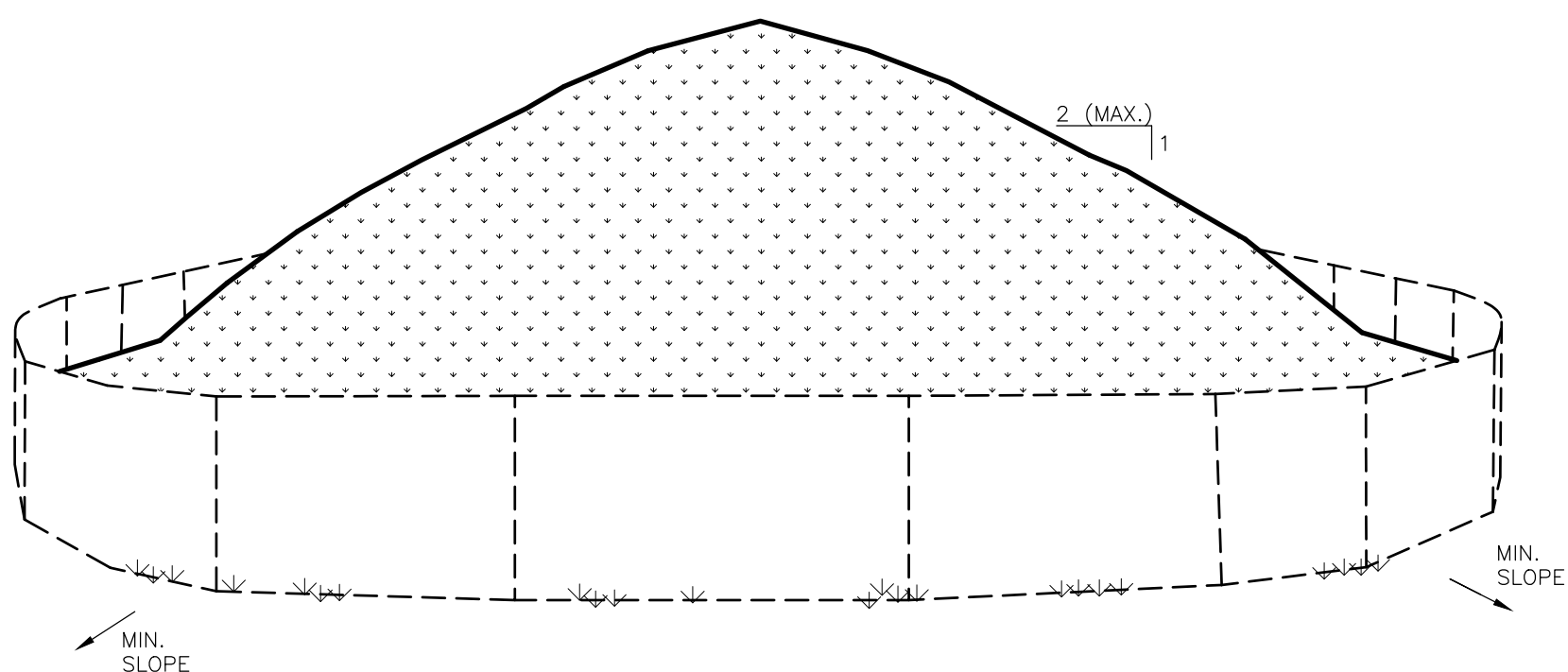
1. CONCRETE WASHOUT FACILITIES SHALL BE INSPECTED DAILY.
2. DAMAGED OR LEAKING FACILITIES SHALL BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY.
3. EXCESS ACCUMULATED RAINWATER OVER HARDENED CONCRETE SHALL BE PUMPED TO A STABILIZED AREA, SUCH AS A GRASS FILTER STRIP.
4. ACCUMULATED HARDENED MATERIAL SHALL BE REMOVED WHEN 75% OF THE STORAGE CAPACITY OF THE FACILITY IS FILLED. ANY EXCESS WASH WATER SHALL BE PUMPED INTO A CONTAINMENT VESSEL AND PROPERLY DISPOSED OF OFF-SITE AT A PERMITTED C&D LANDFILL. NO ONSITE DISPOSAL WILL BE ALLOWED.
5. THE PLASTIC LINER SHALL BE REPLACED WITH EACH CLEANING OF THE FACILITY.
6. INSPECT PROJECT SITE FREQUENTLY TO ENSURE THAT NO CONCRETE DISCHARGES ARE TAKING PLACE IN NON-DESIGNATED AREAS.

CONCRETE DELIVERY TRUCK WASHOUT AREA

DETAIL

SCALE: N.T.S.

3
16



NOTES:

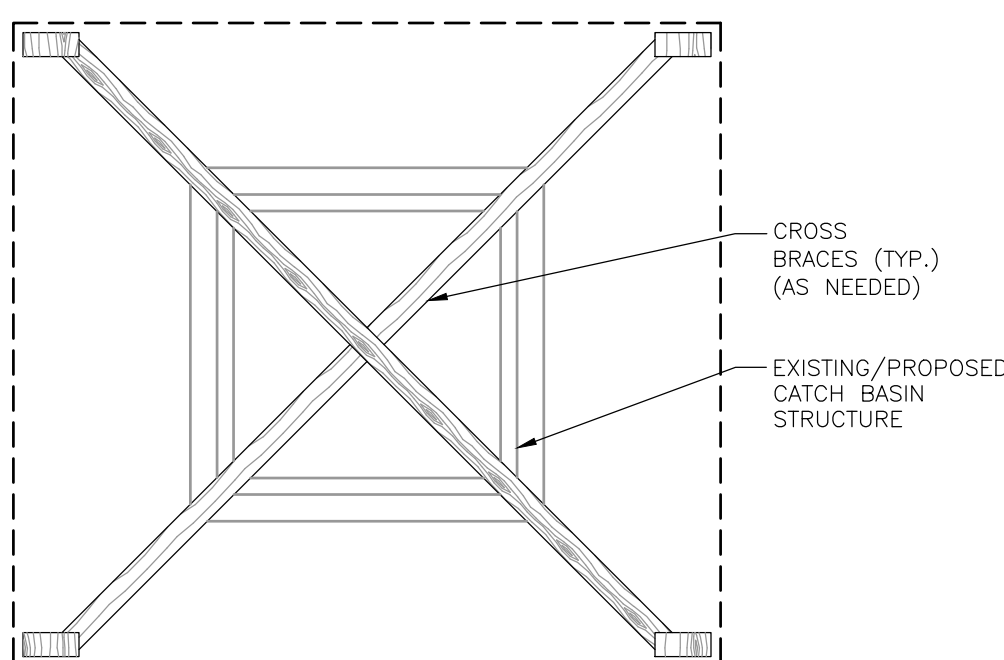
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2H:1V.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, THEN STABILIZED WITH VEGETATION OR COVERED SHOULD THE STOCKPILE REMAIN FOR MORE THAN FOURTEEN (14) DAYS.
4. PLACEMENT OF THE SURROUNDING SILT FENCE SHALL BE IN ACCORDANCE WITH THE SILT FENCE DETAIL.
5. STOCKPILE HEIGHT SHOULD NOT EXCEED TWENTY (20) FEET.

TEMPORARY SOIL STOCKPILE

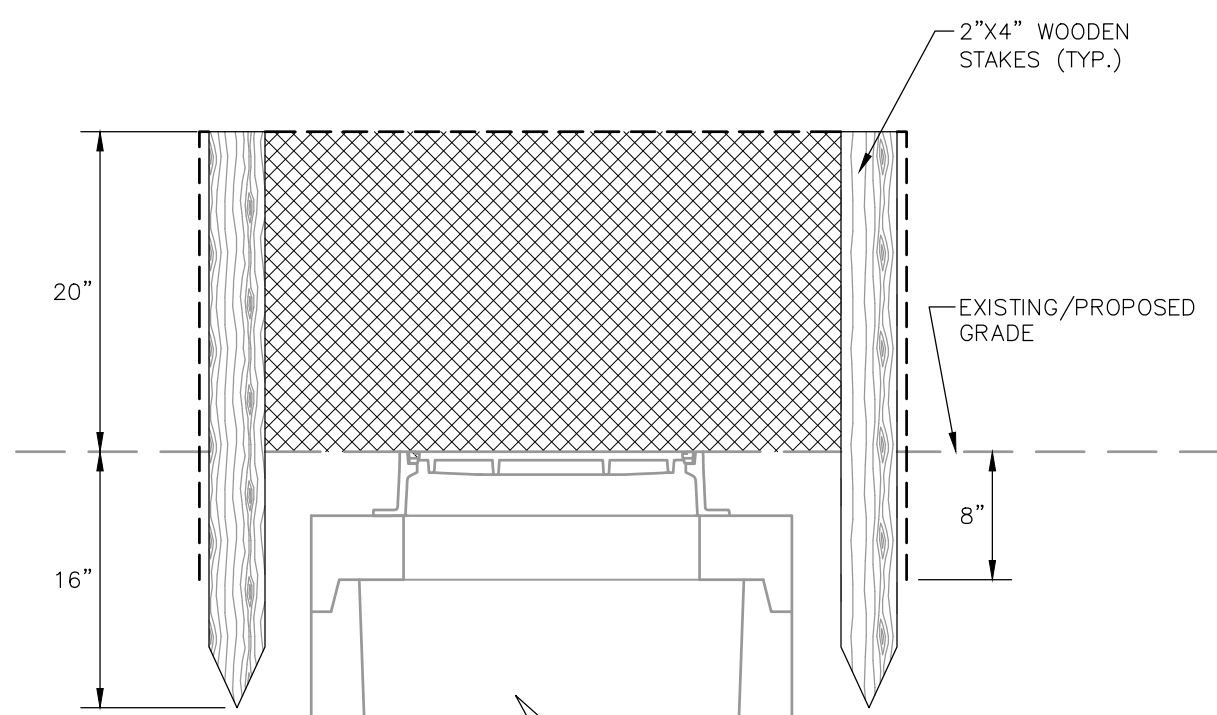
DETAIL

SCALE: N.T.S.

2
16



PLAN VIEW



SIDE VIEW

NOTES:

1. CUT FABRIC FROM CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED, OVERLAP TO THE NEXT STAKE.
2. STAKE MATERIALS WILL BE STANDARD 2"x4" WOOD OR EQUIVALENT, WITH A MINIMUM LENGTH OF 3 FEET.
3. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE MINIMUM 16" DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND FABRIC FOR SUPPORT.
4. FABRIC SHALL BE EMBEDDED 8" MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
5. A 2"x4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVERFLOW STABILITY.
6. INLET PROTECTION SHALL REMAIN IN-PLACE UNTIL SITE HAS BEEN STABILIZED.

DANDY SACK INLET PROTECTION

DETAIL

SCALE: N.T.S.

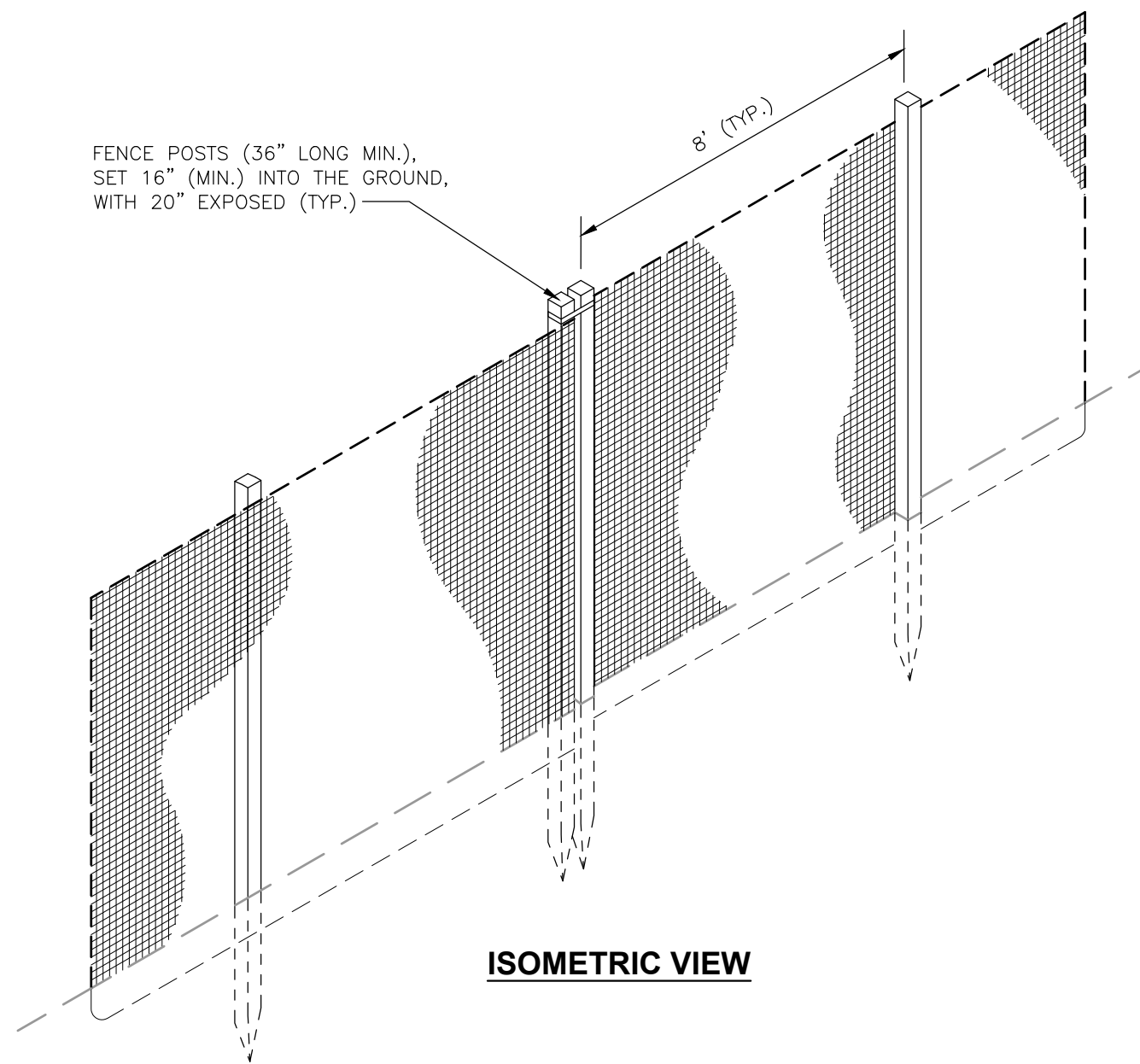
4
16

CATCH BASIN INLET PROTECTION

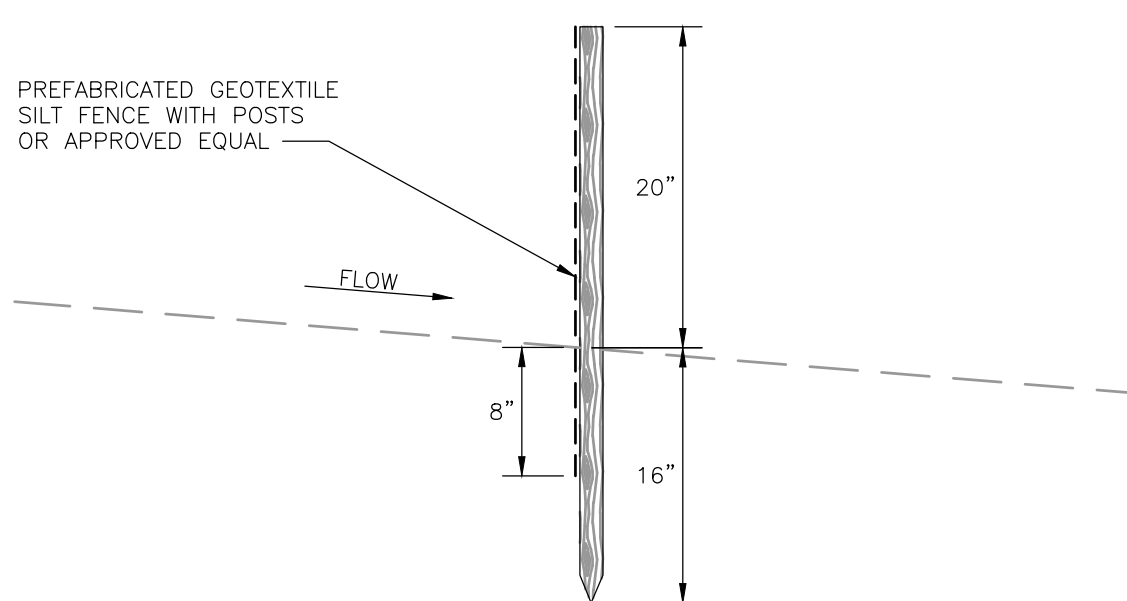
DETAIL

SCALE: 1"=1'

5
16



ISOMETRIC VIEW



SECTION VIEW

NOTES:

1. DUE TO THE DENSE COMPACTION AND PHYSICAL COMPOSITION OF THE IN-SITU SOILS THE CONTRACTOR MAY BE REQUIRED TO UTILIZE ALTERNATE MATERIALS FOR USE AS FENCE POSTS OR PRE-DRILL EMBEDMENT CORES TO ENSURE SATISFACTORY INSTALLATION AND PERFORMANCE OF THE SILT FENCE.
2. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
3. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 12" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE.
4. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED. FILTER CLOTH SHALL BE TENAX 700 OR APPROVED EQUAL.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIALS REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
6. MAXIMUM DRAINAGE AREA FOR OVERLAND FLOW TO A SILT FENCE SHALL NOT EXCEED 1/4 ACRE PER 100 FEET OF FENCE.
7. SILT FENCE SHALL BE USED WHERE EROSION COULD OCCUR IN THE FORM OF SHEET EROSION.
8. SILT FENCE SHALL NOT BE USED WHEN A CONCENTRATION OF WATER IS FLOWING TO THE BARRIER.
9. MAXIMUM ALLOWABLE SLOPE LENGTHS CONTRIBUTING RUN-OFF TO A SILT FENCE ARE:

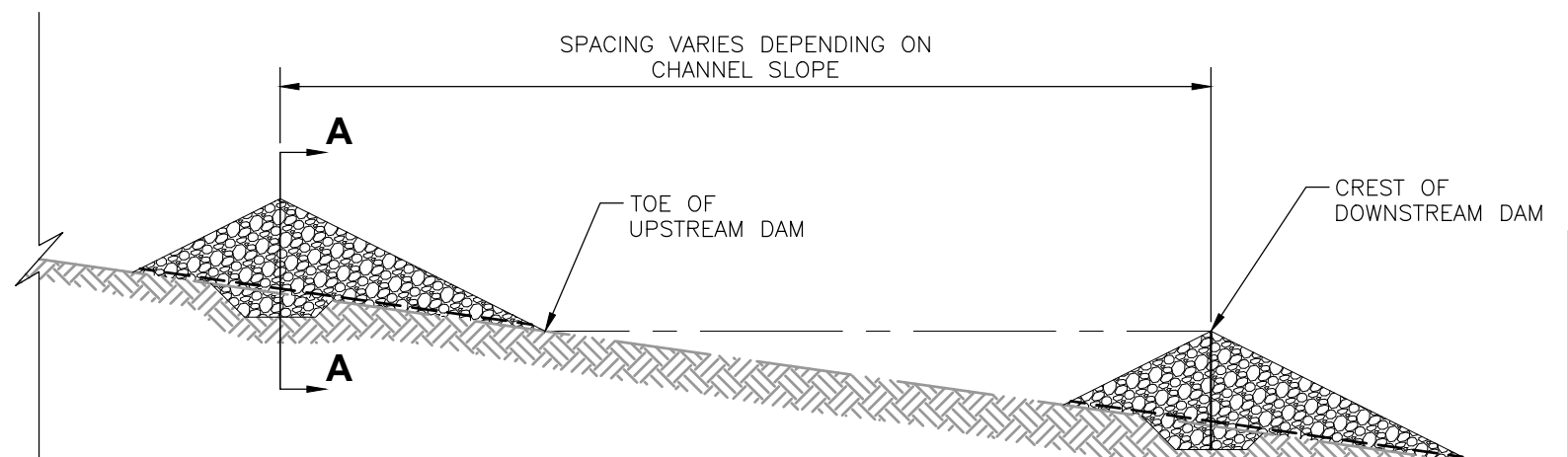
SLOPE STEEPNESS	MAXIMUM SLOPE LENGTH(FT)
2:1	25
3:1	50
4:1	75
5:1 OR FLATTER	100

REINFORCED SILT FENCE

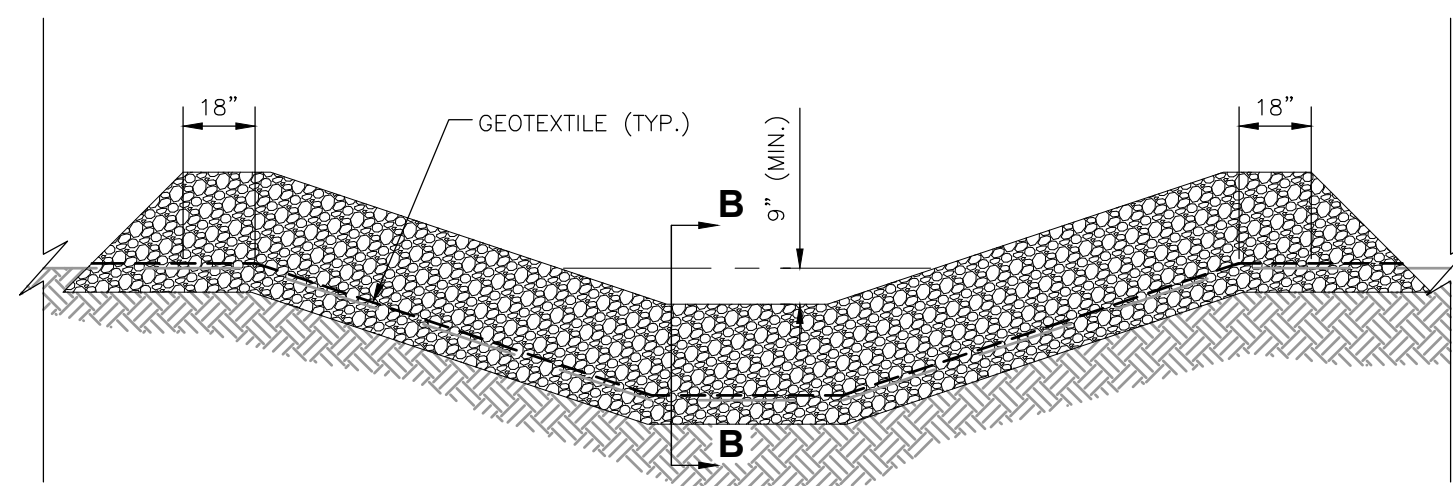
DETAIL

SCALE: N.T.S.

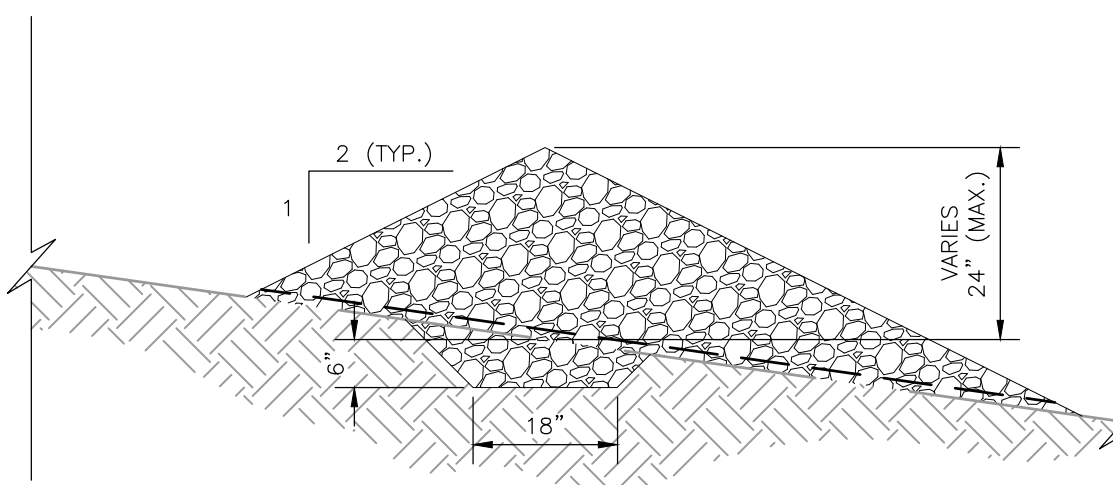
6
16



PROFILE



SECTION A-A



SECTION B-B

NOTES:

1. PLACEMENT OF STONE CHECK DAMS WILL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION.
2. STONE SHALL BE PLACED ON A GEOTEXTILE FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN ON THE PLAN AND/OR DETERMINED BY THE ENGINEER DURING CONSTRUCTION.
3. SET SPACING OF CHECK DAMS SUCH THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM ARE AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
4. EXTEND THE STONE A MINIMUM OF EIGHTEEN INCHES (18") BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
5. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR EROSION CONTROL MAT AS APPROPRIATE.
6. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAM ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
7. MAXIMUM DRAINAGE AREA IS TWO ACRES (2 AC).

STONE CHECK DAM

DETAIL

SCALE: N.T.S.

7
16

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I.W.S. TRANSFER SYSTEMS OF N.Y., INC.
GOSHEN TRANSFER STATION
95 HARTLEY ROAD, GOSHEN, NEW YORK

PROPOSED FACILITY MODIFICATIONS
PROPOSED EROSION & SEDIMENT CONTROL DETAILS

SHEET NO.

16

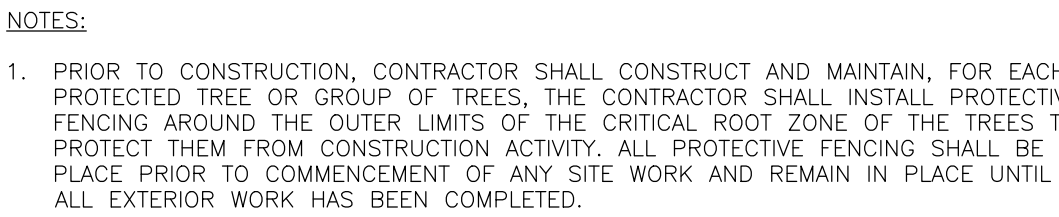
PROJECT NO.
4223429

BODHI A. PIEDMONT-LEISCHMANN, P.E.

N.Y.P.E. Lic. No. 099699 Date

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	MARCH 2024	DATE OF ISSUE				
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5		APPROVED BY	KMT			

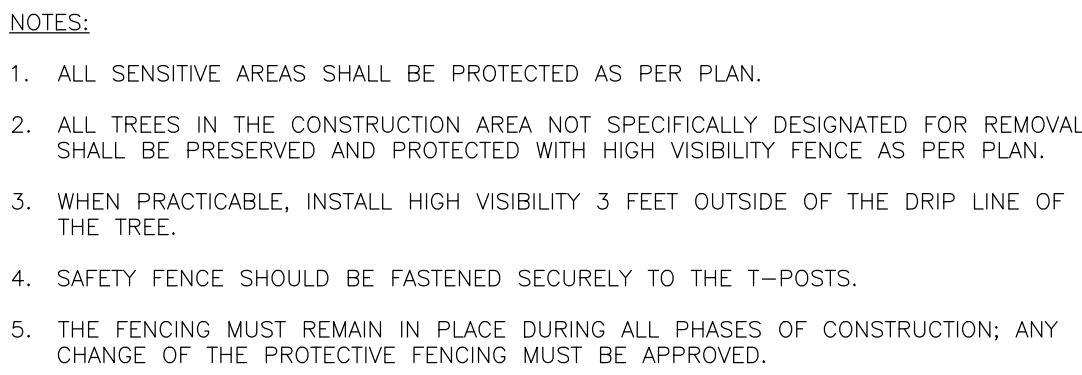
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DETAIL

SCALE: 1"=1'

1
17

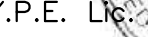


DETAIL

SCALE: NOT TO SCALE

2
17

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 3/27/2024

N.Y.P.E. Lic. No. 099699 Date

 **cornerstone**
PLLC

PREPARED BY:
CORNERSTONE ENGINEERING AND GEOLOGY, PLLC

ALL PROFESSIONAL ENGINEERING WORK IS PERFORMED BY DULY LICENSED PROFESSIONAL ENGINEERS UNDER THE
APPROPRIATE STATE REGISTERED PROFESSIONAL ENTITY.

PROPOSED FACILITY MODIFICATIONS

PROPOSED MISCELLANEOUS DETAILS

PROJECT NC
4223429

APPENDIX A

APPLICATION FOR A SOLID WASTE MANAGEMENT FACILITY PERMIT AND RECORD OF COMPLIANCE

DEPARTMENT USE ONLY

ACTIVITY NUMBER(S)

Please read all instructions before completing this application

Reset Form

1. APPLICATION TYPE (CHECK ALL APPLICABLE BOXES):

☐ Initial (New) ☒ Modification ☒ Renewal (Existing permit expiration date: 9/25/2024)

☒ Facility Owner ☒ Facility Operator

☐ YES (Name of municipality: _____) ☐ NO

☐ Check here if facility owner, operator and/or real property owner has changed since last application was submitted.

Email: JAnderson@interstatewaste.com

☐ Check here if facility owner is not real property owner.
See instruction page for written permission requirement.

- ☐ Combustion & Thermal Treatment (362-1)
- ☒ C & D Debris Handling & Recovery (361-5)
- ☐ Composting & Other Organics Processing (361-3)
- ☐ Household Hazardous Waste Collection (362-4)
- ☐ Land Application & Associated Storage (361-2)
- ☐ Landfill (363)
- ☐ Regulated Medical Waste (365)
- ☐ Mulch Processing (361-4)
- ☐ Municipal Solid Waste Processing (362-2)

- ☐ Navigational Dredge Material Handling & Recovery (361-9)
- ☐ Nonspecific Facilities (360.17)
- ☐ Recyclables Handling & Recovery (361-1)
- ☐ Research, Development, and Demonstration (360.18)
- ☒ Transfer (362-3)
- ☐ Waste Oil (374-2)
- ☐ Waste Tire Handling & Recovery (361-6)
- ☐ Used Cooking Oil & Yellow Grease (361-8)

10. NAME(S) OF ALL MUNICIPALITIES IN SERVICE AREA:

Municipalities in Orange County, New York

11. SOLID WASTE ACCEPTED: *Identify facility capacity and throughput of each waste type, as applicable*

The Facility will accept up to 670 TPD of MSW and C&D Debris when operating under Part 362-3 or a maximum of 570 TPD of MSW and a maximum of 100 TPD of C&D when operating under both Part 362-3 and Part 361-5.

FOR MODIFICATION APPLICATION ONLY**12. DOES THE MODIFICATION APPLICATION INVOLVE (CHECK ALL APPLICABLE BOXES):** Transfer Station Building Addition☐ New waste type ☐ New equipment ☐ Waste acceptance rate increase ☐ Facility expansion (including landfill)**SKIP QUESTION #13 AND #14 IF APPLYING FOR RENEWAL ONLY****13. APPLICATION DESCRIPTION***Include a brief description of new or modification request*

The Facility is requesting that 70 TPD of source-separated recyclables be converted to MSW and C&D Debris. The Facility will accept up to 670 TPD of MSW and C&D Debris when operating under Part 362-3 or a maximum of 570 TPD of MSW and a maximum of 100 TPD of C&D when operating under both Part 362-3 and Part 361-5.

14. FACILITY SIZEa. Facility size proposed (acres) 3.0b. Total site area (acres) 3.0**For modification application ONLY**c. Associated facility size change (acres) 0.23**For Landfill ONLY**

d. Facility size ultimately planned (acres) _____

e. Existing landfill area on this site and adjacent properties (acres) _____

f. Ultimate facility height above ground level (feet) _____

15. IS A VARIANCE REQUESTED FROM ANY PROVISION OF 6 NYCRR PART 360 SERIES?☐ Yes ☒ No If yes, submit an application for variance and cite specific provision(s) here: _____**16. REAL PROPERTY OWNER CERTIFICATION**☐ Corporation ☐ Partnership ☐ Sole Proprietorship ☐ Municipality/other government entity ☒ Other: Incorporation

I hereby attest that I am the owner of the real property on which the facility is located or the proposed or modified facility will be located and am signing in my individual capacity.

Or if signing in a representative capacity: I hereby attest that I am the (indicate title or capacity) _____, an authorized representative of the owner of the real property on which the facility is located or the proposed or modified facility will be located. I am duly authorized on behalf of said owner to sign make this certification on this application.

I grant permission for the applicant to apply for the permit, and construct and operate the facility described in the application in accordance with a final DEC permit or approval. I also grant permission for the department to access the above-described real property, including any adjacent areas, during all reasonable times (including but not limited to 7:00 am to 7:00 pm Monday through Friday, and additional facility hours of operation, and as appropriate during emergencies and similar exigent circumstances) without the property owner, applicant or other representative of the property owner or facility present. If the property is posted with "keep out" signs or fenced with an unlocked gate, department staff may still enter the property. Department staff may traverse the property, inspect the facility, take measurements, analyze site physical characteristics, take soil and vegetation samples, sketch and photograph the property, and conduct other activities necessary to evaluate the permit application or assess the facility's compliance with the permit and any other applicable statutory or regulatory requirements.

I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Signature: Michael DiBella Print Name: Michael DiBella Date: 3/12/2024

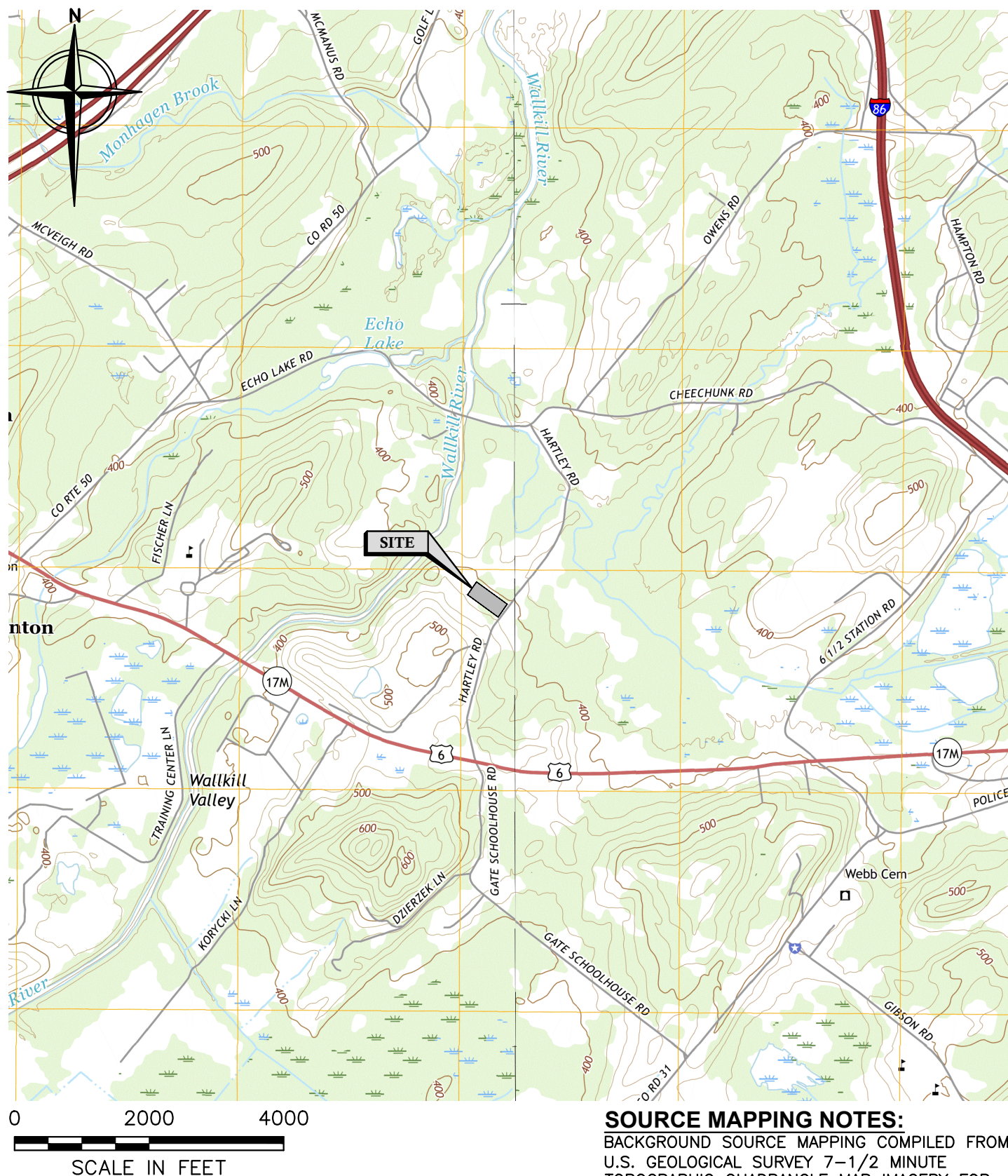
Title or Representation if signing in a representative capacity: _____

17. APPLICANT CERTIFICATION☐ Corporation ☐ Partnership ☐ Sole Proprietorship ☐ Municipality/other government entity ☒ Other: Incorporation

I hereby attest that I am the (check one) ☐ President/Vice President ☐ General Partner ☐ Sole Proprietor ☐ Duly Authorized Municipal Representative of (APPLICANT) _____ and the legally responsible party for this application as presented to NYSDEC. I affirm that the statements and information provided on this application and all attachments submitted herewith are true, accurate, and complete.

I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. I accept full responsibility for all damage, direct or indirect, of whatever nature, and by whomever suffered, arising out of the project described herein and agree to indemnify and hold harmless the State from any and all causes of action in law or equity, resulting from the said project.

Signature: Michael DiBella Print Name: Michael DiBella Date: 3/11/2024



This drawing represents intellectual property of Cornerstone. Any modification to the original by other than Cornerstone personnel violates its original purpose and as such is rendered void. Cornerstone will not be held liable for any changes made to this document without express written consent of the originator.

SOURCE MAPPING NOTES:

BACKGROUND SOURCE MAPPING COMPILED FROM U.S. GEOLOGICAL SURVEY 7-1/2 MINUTE TOPOGRAPHIC QUADRANGLE MAP IMAGERY FOR GOSHEN (2016), AND MIDDLETOWN (2016).

Unauthorized alteration or addition to this plan bearing a licensed professional's seal is a violation of Section 7209, Sub-Division 2, of the New York Education Law. Only copies from the original of this plan marked with an original professional's seal shall be considered to be valid true copies.



PREPARED BY:
CORNERSTONE ENGINEERING AND GEOLOGY, PLLC

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IWS TRANSFER SYSTEMS OF NY, INC.
GOSHEN TRANSFER STATION
95 HARTLEY ROAD, GOSHEN, NEW YORK 10924

SITE LOCATION MAP

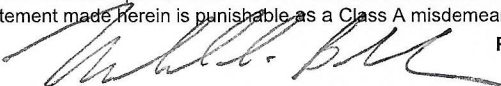
FIGURE NO.

1

PROJECT NO.
4233429

RECORD OF COMPLIANCE-Permit Application Supplement

Please read all instructions on reverse side before completing this application

1. FULL NAME OF APPLICANT Interstate Waste Services, Inc.		
2. MAILING ADDRESS (Principal Place of Business) Street 300 Frank W. Burr Blvd., Ste. 39		3. NEW YORK STATE MAILING ADDRESS (If different) Street
City/State/Zip Code Teaneck, NJ 07666		City/State/Zip Code
4. TYPE OF ORGANIZATION ☐ Individual ☐ Partnership ☐ Company ☐ Corporation ☒ Other Incorporation		If other than individual, provide Federal Taxpayer ID Number 32-0620266
5. Does the applicant currently hold any permit issued under the Environmental Conservation Law? ☐ Yes ☒ No		
6. a. Has the applicant been denied a permit or has the applicant had a permit revoked or suspended under the Environmental Conservation Law? or b. Is the applicant currently the subject of an enforcement action under the Environmental Conservation Law? a. ☐ Yes ☒ No b. ☐ Yes ☒ No		
7. If any answer to questions 5, 6(a), or 6(b) is YES, provide details on a separate page and attach it to this form.		
8. Has the applicant, and if the applicant is a corporation, has any officer, director, or large stockholder (owner of 25 percent or more of not publicly-traded stock) of the corporation, within the last ten (10) years, been: a. found in an administrative, civil or criminal proceeding to have violated any provision of the Environmental Conservation Law (ECL), any related order or determination of the Commissioner, any regulation promulgated pursuant to the ECL, the condition of any permit issued thereunder, or any similar statute, regulation, order or permit condition of any other state or federal government agency? ☐ Yes ☒ No b. an officer, director or large stockholder (owner of 25% or more of not publicly-traded stock) of a corporation which-during the time such person was an officer, director or large stockholder-was determined in an administrative, civil or criminal proceeding to have violated any provision of the Environmental Conservation Law (ECL), any related order or determination of the Commissioner, any regulation promulgated pursuant to the ECL, the condition of any permit issued thereunder, or any similar statute, regulation, order or permit condition of any other state or federal government agency? ☐ Yes ☒ No c. convicted of a criminal offense under the laws of any state or federal government agency, which involves environmental statutes or regulations, or fraud, bribery, perjury, theft or an offense against public administration as that term is used in Article 195 of the Penal Law, or an offense involving false written statements as those terms are defined in Article 175 of the Penal Law? Out-of-state history may be limited to misdemeanors, felonies and civil penalties assessed at \$25,000 or more. ☐ Yes ☒ No d. an officer, director or large stockholder (owner of 25% or more of not publicly-traded stock) of a corporation which-during the time such person was an officer, director or large stockholder-was convicted of a criminal offense under the laws of any state or federal government agency, which involves environmental statutes or regulations or fraud, bribery, perjury, theft, or an offense against public administration as that term is used in Article 195 of the Penal Law, or an offense involving false written statements as those terms are defined in Article 175 of the Penal Law? Out-of-state history may be limited to misdemeanors, felonies and civil penalties assessed at \$25,000 or more. ☐ Yes ☒ No		
9. If any answer to questions 8a through 8d is YES, provide details on a separate page and attach it to this form.		
10. Does the applicant currently owe any regulatory fees pursuant to Article 72 of the Environmental Conservation Law to the Department of Environmental Conservation? ☐ Yes, amount \$ ☒ No Under dispute for year(s) Amount \$		
11. CERTIFICATION (By Applicant who is an Individual) I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. Date: 3/11/2021 Signature:  Print Name: Michael DiBella		
ITEMS 12 THROUGH 15 TO BE COMPLETED BY AN APPLICANT OTHER THAN AN INDIVIDUAL		
12. SPECIFY UNDER WHAT LAW APPLICANT WAS ORGANIZED Delaware General Corporation Law	13. STATE DE	14. DATE OF ORGANIZATION 1/14/2020
15. CERTIFICATION (By an Applicant Other Than an Individual) I hereby affirm under penalty of perjury that I am CEO (title) of Interstate Waste Services, Inc. (entity); that I am authorized by that entity to make this application; that this application was prepared by me or under my supervision and direction; and that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. Date: Signature: Print Name:		



**Department of
Environmental
Conservation**

This form is for Interstate Waste Services, Inc. which owns 100% of The Action Environmental Group, Inc. and I.W.S. Transfer Systems of NY, Inc.

DEPARTMENT USE ONLY

DEC APPLICATION NO.

ACTIVITY NUMBER(S)

**New York State Department of Environmental Conservation
RECORD OF COMPLIANCE SUPPLEMENTAL INFORMATION FORM**

1. **APPLICANT NAME:** I.W.S. Transfer Systems of N.Y., Inc.

2. **ADDRESS:** 300 Frank W. Burr Blvd., Ste. 39
CITY: Teaneck **STATE/ZIP:** NJ 07666

3. PLEASE LIST ALL OF THE OWNERS/PARTNERS OF THE FACILITY THAT IS APPLYING FOR THE PERMIT*, INCLUDING ANY OTHER NAME THEY ARE CURRENTLY OR HAVE EVER BEEN KNOWN BY:

I.W.S. Transfer Systems of N.Y., Inc. has one shareholder, The Action Environmental Group, Inc. which company also has one shareholder, Interstate Waste Services, Inc. The majority of ownership is with private equity firms which are professional investors that invest in businesses from funds raised from institutions such as pension funds, insurance companies and high net worth individuals. I.W.S. Transfer Systems of NY, Inc. has been owned by private equity firms since its inception in 2010.

4. PLEASE LIST THE NAMES OF ALL OTHER COMPANIES THAT ARE OWNED OR PARTLY OWNED BY THE PEOPLE LISTED ABOVE. Also list the companies that own or control or are related to the applicant company, all subsidiaries, parent companies, sister companies. Also include ADDRESSES, WEBSITE ADDRESSES, and WHAT EACH LISTED COMPANY DOES (BUSINESS FIELD, e.g., "Solid Waste Transfer" or "Cement Plant" or "Real Estate Holding Co").**

RELATED COMPANY NAME	COMPANY ADDRESS	COMPANY WEBSITE	BUSINESS FIELD
The Action Group, Inc.	300 Frank W. Burr Blvd., Ste. 39, Teaneck, NJ 07666	None	Corporate
I.W.S. Transfer Systems of NY, Inc.	89 Black Meadow Road, Chester, NY 10918	None	Solid Waste

5. CERTIFICATION BY APPLICANT: I certify that the above information is true to the best of my knowledge. I am aware that any false and/or misleading statements may be subject to prosecution under NYS Penal law.

Signature:  **Date:** 3/11/2004 **Email address:** mdibella@interstatewaste.com

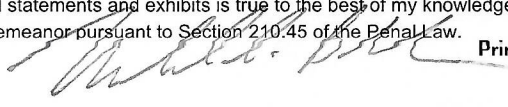
Name (Print or type): Michael DiBella **Title (Print or type):** CEO

* This form is applicable not only to the immediate entity but to any other corporation, partnership, association or organization in which the applicant holds or has held a substantial interest or in which it has acted as a high managerial agent or director or any other individual, corporation, partnership or organization which holds a substantial interest or the position of high managerial agent or director in the applicant.

** If the applicant company is owned by another company, corporation, partnership, association or organization, then the companies that need to be listed are all of the companies owned or controlled by the largest parent organization involved.

RECORD OF COMPLIANCE-Permit Application Supplement

Please read all instructions on reverse side before completing this application

1. FULL NAME OF APPLICANT The Action Environmental Group, Inc.		
2. MAILING ADDRESS (Principal Place of Business) Street 300 Frank W. Burr Blvd., Ste. 39	3. NEW YORK STATE MAILING ADDRESS (If different) Street	
City/State/Zip Code Teaneck, NJ 07666	City/State/Zip Code	
4. TYPE OF ORGANIZATION ☐ Individual ☐ Partnership ☐ Company ☐ Corporation ☒ Other Incorporation		If other than individual, provide Federal Taxpayer ID Number 27-3091166
5. Does the applicant currently hold any permit issued under the Environmental Conservation Law? ☐ Yes ☒ No		
6. a. Has the applicant been denied a permit or has the applicant had a permit revoked or suspended under the Environmental Conservation Law? or b. Is the applicant currently the subject of an enforcement action under the Environmental Conservation Law? a. ☐ Yes ☒ No b. ☐ Yes ☒ No		
7. If any answer to questions 5, 6(a), or 6(b) is YES, provide details on a separate page and attach it to this form.		
8. Has the applicant, and if the applicant is a corporation, has any officer, director, or large stockholder (owner of 25 percent or more of not publicly-traded stock) of the corporation, within the last ten (10) years, been: a. found in an administrative, civil or criminal proceeding to have violated any provision of the Environmental Conservation Law (ECL), any related order or determination of the Commissioner, any regulation promulgated pursuant to the ECL, the condition of any permit issued thereunder, or any similar statute, regulation, order or permit condition of any other state or federal government agency? ☐ Yes ☒ No b. an officer, director or large stockholder (owner of 25% or more of not publicly-traded stock) of a corporation which-during the time such person was an officer, director or large stockholder-was determined in an administrative, civil or criminal proceeding to have violated any provision of the Environmental Conservation Law (ECL), any related order or determination of the Commissioner, any regulation promulgated pursuant to the ECL, the condition of any permit issued thereunder, or any similar statute, regulation, order or permit condition of any other state or federal government agency? ☐ Yes ☒ No c. convicted of a criminal offense under the laws of any state or federal government agency, which involves environmental statutes or regulations, or fraud, bribery, perjury, theft or an offense against public administration as that term is used in Article 195 of the Penal Law, or an offense involving false written statements as those terms are defined in Article 175 of the Penal Law? Out-of-state history may be limited to misdemeanors, felonies and civil penalties assessed at \$25,000 or more. ☐ Yes ☒ No d. an officer, director or large stockholder (owner of 25% or more of not publicly-traded stock) of a corporation which-during the time such person was an officer, director or large stockholder-was convicted of a criminal offense under the laws of any state or federal government agency, which involves environmental statutes or regulations or fraud, bribery , perjury, theft, or an offense against public administration as that term is used in Article 195 of the Penal Law, or an offense involving false written statements as those terms are defined in Article 175 of the Penal Law? Out-of-state history may be limited to misdemeanors, felonies and civil penalties assessed at \$25,000 or more. ☐ Yes ☒ No		
9. If any answer to questions 8a through 8d is YES, provide details on a separate page and attach it to this form.		
10. Does the applicant currently owe any regulatory fees pursuant to Article 72 of the Environmental Conservation Law to the Department of Environmental Conservation? ☐ Yes, amount \$ ☒ No Under dispute for year(s) Amount \$		
11. CERTIFICATION (By Applicant who is an Individual) I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. Date: Signature: Print Name:		
ITEMS 12 THROUGH 15 TO BE COMPLETED BY AN APPLICANT OTHER THAN AN INDIVIDUAL		
12. SPECIFY UNDER WHAT LAW APPLICANT WAS ORGANIZED Delaware General Corporation Law	13. STATE DE	14. DATE OF ORGANIZATION 7/14/2010
15. CERTIFICATION (By an Applicant Other Than an Individual) I hereby affirm under penalty of perjury that I am CEO (title) of The Action Environmental Group, Inc. (entity); that I am authorized by that entity to make this application; that this application was prepared by me or under my supervision and direction; and that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. Date: 2/1/2004 Signature:  Print Name: Michael DiBella		



Department of
Environmental
Conservation

This form is for The Action
Environmental Group, Inc.

DEPARTMENT USE ONLY

DEC APPLICATION NO. _____

ACTIVITY NUMBER(S) _____

**New York State Department of Environmental Conservation
RECORD OF COMPLIANCE SUPPLEMENTAL INFORMATION FORM**

1. **APPLICANT NAME:** I.W.S. Transfer Systems of N.Y., Inc.

2. **ADDRESS:** 300 Frank W. Burr Blvd., Ste. 39
CITY: Teaneck **STATE/ZIP:** NJ 07666

3. **PLEASE LIST ALL OF THE OWNERS/PARTNERS OF THE FACILITY THAT IS APPLYING FOR THE PERMIT*, INCLUDING ANY OTHER NAME THEY ARE CURRENTLY OR HAVE EVER BEEN KNOWN BY:**

I.W.S. Transfer Systems of N.Y., Inc. has one shareholder, The Action Environmental Group, Inc. which company also has one shareholder, Interstate Waste Services, Inc. The majority of ownership is with private equity firms which are professional investors that invest in businesses from funds raised from institutions such as pension funds, insurance companies and high net worth individuals. I.W.S. Transfer Systems of NY, Inc. has been owned by private equity firms since its inception in 2010.

4. **PLEASE LIST THE NAMES OF ALL OTHER COMPANIES THAT ARE OWNED OR PARTLY OWNED BY THE PEOPLE LISTED ABOVE**. Also list the companies that own or control or are related to the applicant company, all subsidiaries, parent companies, sister companies. Also include ADDRESSES, WEBSITE ADDRESSES, and WHAT EACH LISTED COMPANY DOES (BUSINESS FIELD, e.g., "Solid Waste Transfer" or "Cement Plant" or "Real Estate Holding Co").**

RELATED COMPANY NAME	COMPANY ADDRESS	COMPANY WEBSITE	BUSINESS FIELD
I.W.S. Transfer Systems of NY, Inc.	89 Black Meadow Road, Chester, NY 10918	None	Solid Waste

5. **CERTIFICATION BY APPLICANT:** I certify that the above information is true to the best of my knowledge. I am aware that any false and/or misleading statements may be subject to prosecution under NYS Penal law.

Signature:  Date: 3/11/2024 Email address: mdibella@interstatewaste.com

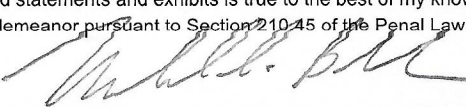
Name (Print or type): Michael DiBella Title (Print or type): CEO

* This form is applicable not only to the immediate entity but to any other corporation, partnership, association or organization in which the applicant holds or has held a substantial interest or in which it has acted as a high managerial agent or director or any other individual, corporation, partnership or organization which holds a substantial interest or the position of high managerial agent or director in the applicant.

** If the applicant company is owned by another company, corporation, partnership, association or organization, then the companies that need to be listed are all of the companies owned or controlled by the largest parent organization involved.

RECORD OF COMPLIANCE-Permit Application Supplement

Please read all instructions on reverse side before completing this application

1. FULL NAME OF APPLICANT I.W.S. Transfer Systems of N.Y., Inc.		
2. MAILING ADDRESS (Principal Place of Business) Street 300 Frank W. Burr Blvd., Ste. 39	3. NEW YORK STATE MAILING ADDRESS (If different) Street	
City/State/Zip Code Teaneck, NJ 0666	City/State/Zip Code	
4. TYPE OF ORGANIZATION ☐ Individual ☐ Partnership ☐ Company ☐ Corporation ☒ Other Incorporation		If other than individual, provide Federal Taxpayer ID Number 20-0434670
5. Does the applicant currently hold any permit issued under the Environmental Conservation Law? ☒ Yes ☐ No		
6. a. Has the applicant been denied a permit or has the applicant had a permit revoked or suspended under the Environmental Conservation Law? or b. Is the applicant currently the subject of an enforcement action under the Environmental Conservation Law? a. ☐ Yes ☒ No b. ☐ Yes ☒ No		
7. If any answer to questions 5, 6(a), or 6(b) is YES, provide details on a separate page and attach it to this form.		
8. Has the applicant, and if the applicant is a corporation, has any officer, director, or large stockholder (owner of 25 percent or more of not publicly-traded stock) of the corporation, within the last ten (10) years, been: a. found in an administrative, civil or criminal proceeding to have violated any provision of the Environmental Conservation Law (ECL), any related order or determination of the Commissioner, any regulation promulgated pursuant to the ECL, the condition of any permit issued thereunder, or any similar statute, regulation, order or permit condition of any other state or federal government agency? ☐ Yes ☒ No		
b. an officer, director or large stockholder (owner of 25% or more of not publicly-traded stock) of a corporation which-during the time such person was an officer, director or large stockholder-was determined in an administrative, civil or criminal proceeding to have violated any provision of the Environmental Conservation Law (ECL), any related order or determination of the Commissioner, any regulation promulgated pursuant to the ECL, the condition of any permit issued thereunder, or any similar statute, regulation, order or permit condition of any other state or federal government agency? ☐ Yes ☒ No		
c. convicted of a criminal offense under the laws of any state or federal government agency, which involves environmental statutes or regulations, or fraud, bribery, perjury, theft or an offense against public administration as that term is used in Article 195 of the Penal Law, or an offense involving false written statements as those terms are defined in Article 175 of the Penal Law? Out-of-state history may be limited to misdemeanors, felonies and civil penalties assessed at \$25,000 or more. ☐ Yes ☒ No		
d. an officer, director or large stockholder (owner of 25% or more of not publicly-traded stock) of a corporation which-during the time such person was an officer, director or large stockholder-was convicted of a criminal offense under the laws of any state or federal government agency, which involves environmental statutes or regulations or fraud, bribery, perjury, theft, or an offense against public administration as that term is used in Article 195 of the Penal Law, or an offense involving false written statements as those terms are defined in Article 175 of the Penal Law? Out-of-state history may be limited to misdemeanors, felonies and civil penalties assessed at \$25,000 or more. ☐ Yes ☒ No		
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11. CERTIFICATION (By Applicant who is an Individual) I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. Date: Signature: Print Name:		
ITEMS 12 THROUGH 15 TO BE COMPLETED BY AN APPLICANT OTHER THAN AN INDIVIDUAL		
12. SPECIFY UNDER WHAT LAW APPLICANT WAS ORGANIZED Domestic Business Corporation	13. STATE NY	14. DATE OF ORGANIZATION 11/24/2003
15. CERTIFICATION (By an Applicant Other Than an Individual) I hereby affirm under penalty of perjury that I am CEO (title) of I.W.S. Transfer Systems of N.Y., Inc. (entity); that I am authorized by that entity to make this application; that this application was prepared by me or under my supervision and direction; and that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. Date: 8/11/2004 Signature:  Print Name: Michael DiBella		



Department of
Environmental
Conservation

DEPARTMENT USE ONLY	
DEC APPLICATION NO.	
ACTIVITY NUMBER(S)	

New York State Department of Environmental Conservation
RECORD OF COMPLIANCE SUPPLEMENTAL INFORMATION FORM

1. APPLICANT NAME:	<u>I.W.S. Transfer Systems of N.Y., Inc.</u>		
2. ADDRESS:	<u>300 Frank W. Burr Blvd., Ste. 39</u>		
CITY:	<u>Teaneck</u>	STATE/ZIP:	<u>NJ 07666</u>
3. PLEASE LIST ALL OF THE OWNERS/PARTNERS OF THE FACILITY THAT IS APPLYING FOR THE PERMIT*, INCLUDING ANY OTHER NAME THEY ARE CURRENTLY OR HAVE EVER BEEN KNOWN BY: I.W.S. Transfer Systems of N.Y., Inc. has one shareholder, The Action Environmental Group, Inc. which company also has one shareholder, Interstate Waste Services, Inc. The majority of ownership is with private equity firms which are professional investors that invest in businesses from funds raised from institutions such as pension funds, insurance companies and high net worth individuals. I.W.S. Transfer Systems of NY, Inc. has been owned by private equity firms since its inception in 2010.			

4. PLEASE LIST THE NAMES OF ALL OTHER COMPANIES THAT ARE OWNED OR PARTLY OWNED BY THE PEOPLE LISTED ABOVE**. Also list the companies that own or control or are related to the applicant company, all subsidiaries, parent companies, sister companies. Also include ADDRESSES, WEBSITE ADDRESSES, and WHAT EACH LISTED COMPANY DOES (BUSINESS FIELD, e.g., "Solid Waste Transfer" or "Cement Plant" or "Real Estate Holding Co").

RELATED COMPANY NAME	COMPANY ADDRESS	COMPANY WEBSITE	BUSINESS FIELD

5. CERTIFICATION BY APPLICANT: I certify that the above information is true to the best of my knowledge. I am aware that any false and/or misleading statements may be subject to prosecution under NYS Penal law.

Signature:  Date: 3/11/2024 Email address: mdibella@interstatewaste.com

Name (Print or type): Michael DiBella Title (Print or type): CEO

* This form is applicable not only to the immediate entity but to any other corporation, partnership, association or organization in which the applicant holds or has held a substantial interest or in which it has acted as a high managerial agent or director or any other individual, corporation, partnership or organization which holds a substantial interest or the position of high managerial agent or director in the applicant.

** If the applicant company is owned by another company, corporation, partnership, association or organization, then the companies that need to be listed are all of the companies owned or controlled by the largest parent organization involved.

APPENDIX B

SEQR DOCUMENTS

The Facility was deemed to have no significant adverse environmental impact and a Negative Declaration was declared in June 2023. A copy of the SEQR documents will be included in Appendix B once finalized by the Town of Goshen.

APPENDIX C

THROUGHPUT CAPACITY CALCULATIONS

To: File

Cc: I.W.S. Transfer Systems of N.Y., Inc.

Date: March 18, 2024

Subject: Goshen Transfer Station
Proposed Facility Modifications
Throughput Capacity Calculations
(for NYS DEC Part 360 Solid Waste Management Facility Permit Modification Application)

These Throughput Capacity Calculations, including a Tipping Vehicle Queuing Analysis and a Tipping Floor Material Processing Capacity Analysis, have been prepared as part of the NYSDEC Part 360 Solid Waste Management Facilities Permit (SWMF Permit) Modification and Renewal Application for the I.W.S. Transfer Systems of N.Y., Inc. (IWS) in support of the proposed Goshen Transfer Station Modification (Facility).

The current NYSDEC SWMF Permit allows the Facility to accept Construction and Demolition Debris (C&D debris) and Municipal Solid Waste (MSW) at a maximum combined rate of 600 tons per day. The Facility may also accept Source Separated Recyclables (SSR) at a maximum of 70 tons per day.

It is a priority of IWS to continue to reduce solid waste volumes scheduled for landfill disposal through methods of recycling. With the construction of the proposed addition to the Existing TS Building and the elimination of the currently permitted 70 TPD of SSR, the Facility is requesting a SWMF Permit modification so the Facility can be permitted to accept up to 670 TPD of MSW and C&D debris, resulting in no change to the total maximum of 670 TPD of waste material.

The overall description of proposed Facility function and desired capacity is based on maintaining the currently permitted capacity of 670 tons per day of municipal solid waste and construction and demolition debris.

Summary

The enclosed Tipping Vehicle Queuing Analysis and Tipping Floor Material Processing Capacity Analysis utilized historic data and observations at the Facility, supplemented by extensive knowledge of numerous similar facilities, to model the proposed operations at the overall permitted capacity of 670 TPD. These calculations incorporate conservatively calculated or historically validated variables for the Tipping Vehicle arrival distribution, dwell time at the Existing Truck Scale, unloading time within the Proposed Transfer Station Building configuration, and Transfer Trailer loadout rate.

The proposed Facility has been designed based on industry standards for efficient operations, including a Loadout Tunnel that incorporates a Loadout Tunnel Scale that will eliminate the need for Transfer Trailers (*e.g. tractors coupled to flatbeds with rail cans, dump trailers, etc.*) to maneuver over the existing Truck Scale. The Loadout Tunnel will also be equipped with a tether style, fall protection system which will allow the Transfer Trailers to tarp inside the Proposed Transfer Station Building.

Based on the efficient Facility design and conservative operating metrics used in the analysis, this Throughput Capacity Calculations Memo demonstrates that the proposed Facility modification can easily manage in excess of the permitted capacity.

Historic Tipping Records

The data used to initiate the Throughput Capacity Calculations were obtained from historic scale records from the Facility for December 26, 2023, December 27, 2023 and January 2, 2024 which represent recent peak days. These scale records were utilized to determine the hourly distribution and average tonnage per vehicle for typical Tipping Vehicles delivering MSW and C&D materials. The average of the aggregate number of Tipping Vehicles and total tonnage for these three (3) days were utilized for this analysis. This analysis established a typical average inbound tonnage per Tipping Vehicle of 5.5 tons/truck for an average of 588 TPD. The average number of Tipping Vehicles and total tonnage was then extrapolated to the projected capacity scenario (670 TPD).

To assist with the capacity calculations, the peak hour number of inbound loads was identified from Attachment 1 and presented in the calculated design variables summary. The design peak hour for the 670 TPD will utilize seventeen (17) vehicles within the peak hour ($\pm 93\text{tons}$).

Analysis of On-Site Queuing

The Tipping Vehicle Queuing Analysis (*Attachments 2 and 3*) demonstrates the Facility's capacity to process Tipping Vehicles accessing the Facility, from pre-scale queuing through unloading within the Transfer Station Building. This analysis included the following two (2) analyses to demonstrate fully permitted operations at a capacity of 670 TPD:

- Pre-Scale Tipping Vehicle Queuing Analysis (*before the Existing Truck Scale*)
- Post-Scale Tipping Vehicle Queuing Analysis (*after the Existing Truck Scale/On-site Dwell Time*)

The Tipping Vehicle travel paths and available queuing locations are depicted on Figure 1, "Queuing – Operational Site Plan".

The Pre-Scale Tipping Vehicle Queuing Analysis uses a one (1) minute cycle time which represents a conservative approach in this analysis because the process and technologies utilized during scale operations allows for quicker transaction times than one (1) minute but utilizing a higher cycle time and having sufficient space on site for queuing ensures that the Existing Truck Scale would not be the limiting factor for Facility operations. As shown within Attachment 2, the Pre-Scale Tipping Vehicle Queuing Analysis results in a maximum of two (2) Tipping Vehicles in the queue before the Existing Truck Scale, one (1) of which can stage on the Existing Truck Scale. As shown on Figure 1, "Queuing – Operational Site Plan", there is ample space at the Facility for Tipping Vehicles to queue east of the Existing Truck Scale.

The Post-Scale Tipping Vehicle Queuing Analysis was then completed for the Tipping Vehicles that have finished the inbound scaling transaction. The Historic Tipping Vehicle Scale Records for December 26, 2023, December 27, 2023 and January 2, 2024 were utilized to obtain the on-site dwell time needed for a loaded Tipping Vehicle to travel from the Existing Truck Scale, enter a tipping bay in the Transfer Station Building, tip its contents, and exit the Transfer Station Building. Based upon historic scale records, the average dwell time from completing the inbound scaling to completing the outbound transaction is less than ten (10) minutes. Therefore, ten (10) minutes was used for the on-site dwell time in these calculations.

The Post-Scale Tipping Vehicle Queuing Analysis was performed for the extrapolated maximum seventeen (17) Tipping Vehicles per hour arrival rate utilizing the four (4) tipping slots in the Proposed Transfer Station Building.

As demonstrated within Attachment 3, seventeen (17) Tipping Vehicles arriving per hour utilizing the four (4) available tipping bays with a ten (10) minute cycle time results in a maximum of ten (10) Tipping Vehicles after the inbound scaling transaction at any time, by applying a Poisson Distribution. Four (4) of these Customer Vehicles will be located within the tipping slots within the Transfer Station Building. There is sufficient space available for the remaining six (6) Tipping Vehicles to queue in the area directly following the Existing Truck Scale. In the event of a contingency where these areas are not available for Tipping Vehicle queuing, there is sufficient space on the

southeastern side of the Maintenance Shop/Office Building for additional Tipping Vehicles to stage on/prior to the Existing Truck Scale.

The Queuing Analyses demonstrate the Facility's ability to process Tipping Vehicles accessing the Facility, from pre-scale queuing through unloading within the Transfer Station Building. The primary queuing area is in the area adjacent to the Transfer Station Building after the Existing Truck Scale. Supplementary queuing areas are available on the opposite side of the Maintenance Shop/Offices Building, however the analysis does not demonstrate a need to utilize this area. The Tipping Vehicle travel paths and available queuing locations are depicted on the Figure 1, "Queuing – Operational Site Plan".

After Tipping Vehicles have deposited their payload within the Transfer Station Building, the majority have established and recorded tare weights which allow for bypassing of the Existing Truck Scale before departing the Facility as shown on the "Proposed Vehicle Circulation Plan" (*Sheet 7 of the Engineering Drawings*). In addition, the Facility has been designed to have Transfer Trailers utilize the Proposed Loadout Tunnel Scales which will be certified for trade, further reducing use of the Existing Truck Scale compared to current operations.

Tipping Floor Material Processing Capacity Analysis

The Tipping Floor Material Processing Capacity Analysis (*Attachment 4*) was completed to determine if the Facility could adequately process and transfer the materials. This analysis was performed for the overall permitted capacity of 670 TPD.

Using historic operational information for loadout quantities, the Tipping Floor Material Processing Capacity Analysis applies an estimated average loading rate of fifty-seven tons per hour (57 TPH), assuming one (1) loadout slot and a twenty (20) minute loadout time to reach a Transfer Trailer payload of approximately nineteen (19) tons.

In order to complete the Tipping Floor Material Processing Capacity Analysis, the on-floor waste density of materials on the Tipping Floor or the Transfer Station Building needed to be determined. Using the weight conversions provided on the Transfer Facility Annual Report form provided by NYSDEC, mixed C&D Debris has a density of 0.25 Tons/CY and MSW has an average density of 0.3 Tons/CY. The Facility's historic records document that approximately 20% of the materials received are C&D and approximately 80% of the materials received are MSW. This equates to a weighted average MSW and C&D Debris material density of five hundred eighty pounds per cubic yard (580 lbs/cy). To provide contingency for potential variations in materials received an on-floor density of five hundred-sixty pounds per cubic yard (560 lbs/cy) was utilized for the Tipping Floor Material Processing Capacity Analysis.

The historic data summarized in Attachment 1 was also utilized for this Analysis, applying the same material composition and historic arrival rates to extrapolate to the 670 TPD permitted capacity.

As summarized within Attachment 4, material arriving under a 670 TPD acceptance scenario results in a maximum calculated "surge pile" on the Tipping Floor equaling approximately 180 tons or 642 cubic yards. Attachment 4 presents the material processing calculations and included within these Tables are representations of a three (3) day operating cycle, illustrating that surge piles will not be carried over from the previous day. As noted, the inbound material is still expected to arrive within the traditional acceptance hours of 7:00 AM to 3:30 PM Monday through Friday and until 12:00 PM on Saturday. The Facility will continue to process material until 6:00 PM Monday through Friday and until 12:00 PM on Saturday.

Note that while these calculations indicate a minimally anticipated surge pile during the normal operating capacity, this analysis is not intended to represent that additional material will not be stored in the Tipping Floor during normal operations. I.W.S. may elect to load material at a rate less than fifty-seven tons per hour (57 TPH) and utilize storage space available within the Transfer Station Building to manage operations in accordance with their Facility permit. Material storage quantity and duration will continue to be governed by applicable NYSDEC regulations and applied to support efficient Facility operations.

Emergency Storage Area Calculations

The emergency storage area within the Tipping Floor of the Transfer Station Building provides more than adequate storage for an entire volume of daily inbound waste at the Facility under an emergency condition.

Conclusion

Analyzing Facility capacity through the application of historically documented and conservative waste receiving and loading rates demonstrates that overall permitted capacity of 670 TPD can be successfully managed utilizing I.W.S.'s proposed equipment, site configuration, and permitted hours of operation at the Facility.

LIST OF ATTACHMENTS

Attachment 1 – Inbound Tipping Vehicle Arrival Rates and Extrapolation

Attachment 2 – Pre-Scale Tipping Vehicle Queuing Analysis (670 Tons Per Day) (Scale Time)

Attachment 3 – Post-Scale Tipping Vehicle Queuing Analysis (670 Tons Per Day) (Unloading Time)

Attachment 4 – Tipping Floor Material Processing Capacity Analysis (670 Tons Per Day)

Figure 1 – Queuing – Operational Site Plan

Figure 2 – Tipping Floor Operational Surge Pile Volume

Figure 3 – Tipping Floor Emergency Storage Pile Volume

Attachment 1: Inbound Tipping Vehicle Arrival Rates and Extrapolation

Attachment 1

Client Name:	I.W.S. Transfer Systems of NY, Inc.	Project Name:	Goshen Transfer Station Permit Modification
Subject:	Inbound Tipping Vehicle Arrival Rates and Extrapolation	Project #:	209-4223429
Designed By:	KMT	2/9/2024	Checked By: JCP & ACS
			3/18/2024
			Page No. 1 of 1

Capacity	670	Average Inbound Tonnage per Truck:	5.50	tons/truck
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Interval	Historic Distribution (MSW & C&D)		Extrapolate to	
	588 TPD		670 TPD	
	# of Loads	Tons/Hour	# of Loads	Tons/Hour
0:00 - 01:00	-	-	-	-
01:00 - 02:00	-	-	-	-
02:00 - 03:00	-	-	-	-
03:00 - 04:00	-	-	-	-
04:00 - 05:00	-	-	-	-
05:00 - 06:00	-	-	-	-
06:00 - 07:00	-	-	-	-
07:00 - 08:00	6	30.22	7	38.50
08:00 - 09:00	12	67.16	14	76.99
09:00 - 10:00	13	73.03	15	82.49
10:00 - 11:00	11	50.34	12	66.00
11:00 - 12:00	11	54.88	12	66.00
12:00 - 13:00	11	69.50	13	71.50
13:00 - 14:00	14	64.48	16	87.99
14:00 - 15:00	15	92.36	17	93.49
15:00 - 16:00	14	86.49	16	87.99
16:00 - 17:00	-	-	-	-
17:00 - 18:00	-	-	-	-
18:00 - 19:00	-	-	-	-
19:00 - 20:00	-	-	-	-
20:00 - 21:00	-	-	-	-
21:00 - 22:00	-	-	-	-
22:00 - 23:00	-	-	-	-
23:00 - 24:00	-	-	-	-
TOTAL:	107	588	122	671
MAXIMUM:	15	92	17	93

Calculated Design Variables
671 TPD
17 Peak Hour # of Loads

**Attachment 2:
Pre-Scale Tipping Vehicle Queuing Analysis
(670 Tons Per Day) (Scale Time)**

Attachment 2

Client Name:	I.W.S. Transfer Systems of NY, Inc.	Project Name:	Goshen Transfer Station Permit Modification
Subject:	1 Scale Queue - 670 TPD	Project #:	4223429

Designed By:	KMT	2/12/2024	Checked By:	JCP & ACS	3/18/2024
					Page No. 1 of 2

1 Slot Tipping Queue Model - Calculation

Purpose: Determine the number of vehicles in system for 1 active tipping slot

shaded cell represents values to be input

shaded cells are calculated values

Description: Uses Poisson Model to determine the probability of having "n" number of vehicles in a queue
For use when only 1 tipping slot is utilized

Method:

$$E(m) = \frac{P(0)p^{(K+1)}}{(K!K)} \times \frac{1}{1 - p/K^2} \quad E(w) = \frac{P+E(m)}{y} - \frac{1}{u} \quad p = \frac{y}{u}$$

$E(m)$	average queue length
$P(n)$	probability of "n" units in system
K	number of active slots
p	utilization factor
y	peak arrival rate
u	average slot rate
$1/u$	average slot time; includes travel from scale to departure of slot
n	number of units in system; includes tipping slot and queue

Parameters:

Percent of Tipping Vehicles using slots	100%	
Arrival Rate	17	veh/hr
Slots Active (K)	1	
Tipping Vehicle Cycle time	1	min/veh
p/K is < 1?	0.283	*

* p/K MUST be less than 1 for equations to be valid. If p/K is greater than 1, queue length will grow infinitely.
To correct infinite queuing either increase number of slots or decrease cycle time.

Conclusion:

100%	Percent of Tipping Vehicles using slots	2	Vehicles in System (MAXIMUM)
17	Tipping Vehicles per Hour		
1	Active Tipping Slots		
1.00	Tipping Vehicle Cycle Time (minutes)		

References:

Average Queue Length and Average Wait Time formulas shown are based on exponentially distributed interarrival and service times.

Theory and formulas derived from the Institute of Transportation Engineers' "Transportation and Traffic Engineering Handbook," Second Edition.

Attachment 2			
Client Name:	I.W.S. Transfer Systems of NY, Inc.	Project Name:	Goshen Transfer Station Permit Modification
Subject:	1 Scale Queue - 670 TPD	Project #:	4223429

Designed By:	KMT	Date:	2/12/2024	Checked By:	JCP & ACS	Date:	3/18/2024
						Page No.	2 of 2

1 Slot Tipping Queue Model - Table

	Average Slot Rate u (veh/min)	Average Slot Time 1/u (min/veh)	Peak Arrival Rate (avg) y (veh/min)	Utilization Factor p = y/u	Avg. Queue Length $E(m)=P(0)p^{(K+1)}/(K!K)x(1/(1-p/K)^2)$ (veh)	Avg. Waiting Time $E(w) = ((p+E(m))/\gamma)-(1/u)$ (min)
	1.00	1.00	0.28	0.28	0.11	0.40
Probability of "n" Units in System						
	n= 0		n= 1		n= 2	
1/u (min/veh)	P(0) $1/(E(p^n/n!)+p^K/(K!(1-p/K)))$		P(1) $p^n/n!*P(0)$	P(n<=1) $P(0)+P(1)$	P(2) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=2) $P(2)+P(<=1)$
1.00	71.7%		20.3%	92.0%	5.8%	97.7%
	n= 3		n= 4		n= 5	
1/u (min/veh)	P(3) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=3) $P(3)+P(<=2)$	P(4) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=4) $P(4)+P(<=3)$	P(5) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=5) $P(5)+P(<=4)$
1.00	1.6%	99.4%	0.5%	99.8%	0.1%	99.9%
	n= 6		n= 7		n= 8	
1/u (min/veh)	P(6) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=6) $P(6)+P(<=5)$	P(7) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=7) $P(7)+P(<=6)$	P(8) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=8) $P(8)+P(<=7)$
1.00	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%
	n= 9		n= 10		n= 11	
1/u (min/veh)	P(9) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=9) $P(9)+P(<=8)$	P(10) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=10) $P(10)+P(<=9)$	P(11) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=11) $P(11)+P(<=10)$
1.00	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%
	n= 12		n= 13		n= 14	
1/u (min/veh)	P(12) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=12) $P(12)+P(<=11)$	P(13) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=13) $P(13)+P(<=12)$	P(14) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=14) $P(14)+P(<=13)$
1.00	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%
	n= 15		n= 16		n= 17	
1/u (min/veh)	P(15) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=15) $P(15)+P(<=14)$	P(16) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=16) $P(16)+P(<=15)$	P(17) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=17) $P(17)+P(<=16)$
1.00	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%
	n= 18		n= 19		n= 20	
1/u (min/veh)	P(18) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=18) $P(18)+P(<=17)$	P(19) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=19) $P(19)+P(<=18)$	P(20) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=20) $P(20)+P(<=19)$
1.00	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%
	n= 21		n= 22		n= 23	
1/u (min/veh)	P(21) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=21) $P(21)+P(<=20)$	P(22) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=22) $P(22)+P(<=21)$	P(23) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=23) $P(23)+P(<=22)$
1.00	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%
	n= 24		n= 25		n= 26	
1/u (min/veh)	P(24) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=24) $P(24)+P(<=23)$	P(25) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=25) $P(25)+P(<=24)$	P(26) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=26) $P(26)+P(<=25)$
1.00	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%
	n= 27		n= 28		n= 29	
1/u (min/veh)	P(27) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=27) $P(27)+P(<=26)$	P(28) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=28) $P(28)+P(<=27)$	P(29) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=29) $P(29)+P(<=28)$
1.00	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%
	n= 30		n= 31		n= 32	
1/u (min/veh)	P(30) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=30) $P(30)+P(<=29)$	P(31) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=31) $P(31)+P(<=30)$	P(32) $p^n/(K^{(n-K)}*K!)*P(0)$	P(n<=32) $P(32)+P(<=31)$
1.00	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%

**Attachment 3:
Post-Scale Tipping Vehicle Queuing Analysis
(670 Tons Per Day) (Unloading Time)**

Attachment 3

Client Name:	I.W.S. Transfer Systems, Inc.	Project Name:	Goshen Transfer Station Permit Modification
Subject:	4 Slots - 670 TPD	Project #:	4223429

Designed By:	KMT	Date:	2/28/2024	Checked By:	JCP & ACS	Date:	3/18/2024
						Page No.	1 of 2

4 Slot Tipping Queue Model - Calculation

Purpose: Determine the number of vehicles in system for 4 active tipping slots

shaded cell represents values to be input

shaded cells are calculated values

Description: Uses Poisson Model to determine the probability of having "n" number of vehicles in a queue
For use when 4 tipping slots are utilized

Method:

$$E(m) = \frac{P(0)p^{(K+1)}}{(K!K)} \times \frac{1}{1 - p/K^2} \quad E(w) = \frac{P+E(m)}{y} - \frac{1}{u} \quad p = \frac{y}{u}$$

$E(m)$	average queue length
$P(n)$	probability of "n" units in system
K	number of active slots
p	utilization factor
y	peak arrival rate
u	average slot rate
$1/u$	average slot time; includes travel from scale to departure of slot
n	number of units in system; includes tipping slots and queue

Parameters:	Percent of Tipping Vehicles using slots	100%	
	Arrival Rate	17	veh/hr
	Slots Active (K)	4	
	Tipping Vehicle Cycle time	10	min/veh
	p/K is < 1?	0.708	*

* p/K MUST be less than 1 for equations to be valid. If p/K is greater than 1, queue length will grow infinitely.
To correct infinite queuing either increase number of slots or decrease cycle time.

Conclusion:

100%	Percent of Tipping Vehicles using slots	10	Vehicles in System (MAXIMUM)
17	Tipping Vehicles per Hour		
4	Active Tipping Slots		
10.00	Tipping Vehicle Cycle Time (minutes)		

References:

Average Queue Length and Average Wait Time formulas shown are based on exponentially distributed interarrival and service times.

Theory and formulas derived from the Institution of Transportation Engineer's "Transportation and Traffic Engineering Handbook," Second Edition.

Attachment 3			
Client Name:	I.W.S. Transfer Systems, Inc.	Project Name:	Goshen Transfer Station Permit Modification
Subject:	4 Slots - 670 TPD	Project #:	4223429

Designed By:	KMT	Date:	2/28/2024	Checked By:	JCP & ACS	Date:	3/18/2024
						Page No.	2 of 2

4 Slot Tipping Queue Model - Table

	Average Slot Rate u (veh/min)	Average Slot Time 1/u (min/veh)	Peak Arrival Rate (avg) y (veh/min)	Utilization Factor p = y/u	Avg. Queue Length $E(m)=P(0)p^{(K+1)}/(K!K)x(1/(1-p/K)^2)$ (veh)	Avg. Waiting Time $E(w) = ((p+E(m))/y)-(1/u)$ (min)
	0.10	10.00	0.28	2.83	1.07	3.79
Probability of "n" Units in System						
1/u (min/veh)	n= 0		n= 1		n= 2	
	P(0)		P(1)	P(n<=1)	P(2)	P(n<=2)
	$1/(Ep^n/n!+(p^k/k!(1-p/K)))$		$p^nn/n!*P(0)$	$P(0)+P(1)$	$p^nn/n!*P(0)$	$P(2)+P(<=1)$
10.00	4.8%		13.6%	18.4%	19.3%	37.6%
1/u (min/veh)	n= 3		n= 4		n= 5	
	P(3)	P(n<=3)	P(4)	P(n<=4)	P(5)	P(n<=5)
	$p^nn/n!*P(0)$	$P(3)+P(<=2)$	$p^nn/n!*P(0)$	$P(4)+P(<=3)$	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(5)+P(<=4)$
10.00	18.2%	55.8%	12.9%	68.7%	9.1%	77.8%
1/u (min/veh)	n= 6		n= 7		n= 8	
	P(6)	P(n<=6)	P(7)	P(n<=7)	P(8)	P(n<=8)
	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(6)+P(<=5)$	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(7)+P(<=6)$	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(8)+P(<=7)$
10.00	6.5%	84.3%	4.6%	88.9%	3.2%	92.1%
1/u (min/veh)	n= 9		n= 10		n= 11	
	P(9)	P(n<=9)	P(10)	P(n<=10)	P(11)	P(n<=11)
	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(9)+P(<=8)$	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(10)+P(<=9)$	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(11)+P(<=10)$
10.00	2.3%	94.4%	1.6%	96.0%	1.2%	97.2%
1/u (min/veh)	n= 12		n= 13		n= 14	
	P(12)	P(n<=12)	P(13)	P(n<=13)	P(14)	P(n<=14)
	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(12)+P(<=11)$	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(13)+P(<=12)$	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(14)+P(<=13)$
10.00	0.8%	98.0%	0.6%	98.6%	0.4%	99.0%
1/u (min/veh)	n= 15		n= 16		n= 17	
	P(15)	P(n<=15)	P(16)	P(n<=16)	P(17)	P(n<=17)
	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(15)+P(<=14)$	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(16)+P(<=15)$	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(17)+P(<=16)$
10.00	0.3%	99.3%	0.2%	99.5%	0.1%	99.6%
1/u (min/veh)	n= 18		n= 19		n= 20	
	P(18)	P(n<=18)	P(19)	P(n<=19)	P(20)	P(n<=20)
	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(18)+P(<=17)$	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(19)+P(<=18)$	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(20)+P(<=19)$
10.00	0.1%	99.7%	0.1%	99.8%	0.1%	99.9%
1/u (min/veh)	n= 21		n= 22		n= 23	
	P(21)	P(n<=21)	P(22)	P(n<=22)	P(23)	P(n<=23)
	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(21)+P(<=20)$	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(22)+P(<=21)$	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(23)+P(<=22)$
10.00	0.0%	99.9%	0.0%	99.9%	0.0%	100.0%
1/u (min/veh)	n= 24		n= 25		n= 26	
	P(24)	P(n<=24)	P(25)	P(n<=25)	P(26)	P(n<=26)
	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(24)+P(<=23)$	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(25)+P(<=24)$	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(26)+P(<=25)$
10.00	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%
1/u (min/veh)	n= 27		n= 28		n= 29	
	P(27)	P(n<=27)	P(28)	P(n<=28)	P(29)	P(n<=29)
	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(27)+P(<=26)$	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(28)+P(<=27)$	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(29)+P(<=28)$
10.00	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%
1/u (min/veh)	n= 30		n= 31		n= 32	
	P(30)	P(n<=30)	P(31)	P(n<=31)	P(32)	P(n<=32)
	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(30)+P(<=29)$	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(31)+P(<=30)$	$p^nn/(K^{(n-K)}*K!)*P(0)$	$P(32)+P(<=31)$
10.00	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%

**Attachment 4:
Tipping Floor Material Processing Capacity Analysis
(670 Tons Per Day)**

Attachment 4

Client Name:	IWS Transfer Systems of NY, Inc.	Project Name:	Goshen Transfer Station Permit Modification
Subject:	Material Processing (670 tpd)	Project #:	4223429

Designed By:	KMT	Date:	2/22/2024	Checked By:	JCP & ACS	Date:	3/18/2024
						Page No.	1 of 4

Purpose: Determine the daily surge pile size on a tipping floor

shaded cell represents values to be input

shaded cells are calculated values

Description: Uses truck arrival rate and processing rate to determine the size of the surge pile on tipping floor
Can be used to calculate the hourly tonnage for a specific interval based on average tonnage

Note: This calculation sheet can be adjusted for new scenarios by adding new types of trucks to the list of "truck types" below. Remember to adjust the formulas for the output cells "Weighted Average Tonnage" (found in parameters section below) and "Average Tonnage per Truck" (found in the conclusion section below) to fit the new format.

Parameters:

Inbound Truck Type	Total Inbound Trucks/Day	Average Tonnage/Truck	Operating Hour	% of Total Daily Tonnage	Trucks/Hr	Hourly Tonnage
Misc.	122	5.50	0-1	0.0%	0	0
Total Trucks	122		1-2	0.0%	0	0
			2-3	0.0%	0	0
Number of Loadouts	Tonnage/ Outbound Truck	Minutes/ Outbound Truck Loadout	3-4	0.0%	0	0
1	18.86	20	4-5	0.0%	0	0
			5-6	0.0%	0	0
			6-7	0.0%	0	0
			7-8	5.7%	7	38.50
			8-9	11.5%	14	77.00
Weighted Average Tonnage per Day		671	9-10	12.3%	15	82.50
Max Outbound Processing Rate (ton/hr)		57	10-11	9.8%	12	66.00
			11-12	9.8%	12	66.00
On Floor Waste Density (lbs/cy)		560	12-13	10.7%	13	71.50
			13-14	13.1%	16	88.00
			14-15	13.9%	17	93.50
			15-16	13.1%	16	88.00
			16-17	0.0%	0	0
			17-18	0.0%	0	0
			18-19	0.0%	0	0
			19-20	0.0%	0	0
			20-21	0.0%	0	0
			21-22	0.0%	0	0
			22-23	0.0%	0	0
			23-24	0.0%	0	0

Conclusion: 100.0% Percent of total daily tonnage
122 Total daily vehicles

671 Total Daily Tonnage
5.5 Average Tonnage per Truck

Attachment 4

Client Name:	IWS Transfer Systems of NY, Inc	Project Name:	Goshen Transfer Station Permit Modification
Subject:	Material Processing (670 tpd)	Project #:	4223429

Designed By:	KMT	Date:	2/22/2024	Checked By:	JCP & ACS	Date:	3/18/2024
						Page No.	2 of 4

Tipping Floor Surge Capacity - Table
 671
 Tons Per Day

180	Max. Req'd Surge Capacity (Tons)	671	Total Daily Tonnage (tons per day)
642	Max. Req'd Surge Capacity (Cu .Yd)	57	Max Processing Rate (ton/hr)
		5.5	Avg. Tons / Tipping Vehicle
		560	On Floor Waste Density (lbs/cy)

Hour	Incoming Waste			Processing Rate	Waste Storage (Surge Capacity)		
	% by Hour	Hourly Tonnage (1)	Loads Incoming (2)	Tonnage Out (3)	Tonnage Accum. / hr (4)	Tons on Floor (5)	Cu. Yd On Floor (6)
12:00 AM to 1:00 AM	0.00%	0.0	0	0.0	0.0	0.0	0
1:00 AM to 2:00 AM	0.00%	0.0	0	0.0	0.0	0.0	0
2:00 AM to 3:00 AM	0.00%	0.0	0	0.0	0.0	0.0	0
3:00 AM to 4:00 AM	0.00%	0.0	0	0.0	0.0	0.0	0
4:00 AM to 5:00 AM	0.00%	0.0	0	0.0	0.0	0.0	0
5:00 AM to 6:00 AM	0.00%	0.0	0	0.0	0.0	0.0	0
6:00 AM to 7:00 AM	0.00%	0.0	0	0.0	0.0	0.0	0
7:00 AM to 8:00 AM	5.74%	38.5	7	38.5	0.0	0.0	0
8:00 AM to 9:00 AM	11.48%	77.0	14	56.6	20.4	20.4	73
9:00 AM to 10:00 AM	12.30%	82.5	15	56.6	25.9	46.3	166
10:00 AM to 11:00 AM	9.84%	66.0	12	56.6	9.4	55.8	199
11:00 AM to 12:00 PM	9.84%	66.0	12	56.6	9.4	65.2	233
12:00 PM to 1:00 PM	10.66%	71.5	13	56.6	14.9	80.1	286
1:00 PM to 2:00 PM	13.11%	88.0	16	56.6	31.4	111.5	398
2:00 PM to 3:00 PM	13.93%	93.5	17	56.6	36.9	148.4	530
3:00 PM to 4:00 PM	13.11%	88.0	16	56.6	31.4	179.9	642
4:00 PM to 5:00 PM	0.00%	0.0	0	56.6	0.0	123.3	440
5:00 PM to 6:00 PM	0.00%	0.0	0	56.6	0.0	66.7	238
6:00 PM to 7:00 PM	0.00%	0.0	0	56.6	0.0	10.1	36
7:00 PM to 8:00 PM	0.00%	0.0	0	10.1	0.0	0.0	0
8:00 PM to 9:00 PM	0.00%	0.0	0	0.0	0.0	0.0	0
9:00 PM to 10:00 PM	0.00%	0.0	0	0.0	0.0	0.0	0
10:00 PM to 11:00 PM	0.00%	0.0	0	0.0	0.0	0.0	0
11:00 PM to 12:00 AM	0.00%	0.0	0	0.0	0.0	0.0	0
12:00 AM to 1:00 AM	0.00%	0.0	0	0.0	0.0	0.0	0
1:00 AM to 2:00 AM	0.00%	0.0	0	0.0	0.0	0.0	0
2:00 AM to 3:00 AM	0.00%	0.0	0	0.0	0.0	0.0	0
3:00 AM to 4:00 AM	0.00%	0.0	0	0.0	0.0	0.0	0
4:00 AM to 5:00 AM	0.00%	0.0	0	0.0	0.0	0.0	0
5:00 AM to 6:00 AM	0.00%	0.0	0	0.0	0.0	0.0	0
6:00 AM to 7:00 AM	0.00%	0.0	0	0.0	0.0	0.0	0
7:00 AM to 8:00 AM	5.74%	38.5	7	38.5	0.0	0.0	0
8:00 AM to 9:00 AM	11.48%	77.0	14	56.6	20.4	20.4	73
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7:00 PM to 8:00 PM	0.00%	0.0	0	10.1	0.0	0.0	0
8:00 PM to 9:00 PM	0.00%	0.0	0	0.0	0.0	0.0	0
9:00 PM to 10:00 PM	0.00%	0.0	0	0.0	0.0	0.0	0
10:00 PM to 11:00 PM	0.00%	0.0	0	0.0	0.0	0.0	0
11:00 PM to 12:00 AM	0.00%	0.0	0	0.0	0.0	0.0	0
12:00 AM to 1:00 AM	0.00%	0.0	0	0.0	0.0	0.0	0
1:00 AM to 2:00 AM	0.00%	0.0	0	0.0	0.0	0.0	0
2:00 AM to 3:00 AM	0.00%	0.0	0	0.0	0.0	0.0	0
3:00 AM to 4:00 AM	0.00%	0.0	0	0.0	0.0	0.0	0
4:00 AM to 5:00 AM	0.00%	0.0	0	0.0	0.0	0.0	0
5:00 AM to 6:00 AM	0.00%	0.0	0	0.0	0.0	0.0	0
6:00 AM to 7:00 AM	0.00%	0.0	0	0.0	0.0	0.0	0
7:00 AM to 8:00 AM	5.74%	38.5	7	38.5	0.0	0.0	0
8:00 AM to 9:00 AM	11.48%	77.0	14	56.6	20.4	20.4	73
9:00 AM to 10:00 AM	12.30%	82.5	15	56.6	25.9	46.3	166
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7:00 PM to 8:00 PM	0.00%	0.0	0	10.1	0.0	0.0	0
8:00 PM to 9:00 PM	0.00%	0.0	0	0.0	0.0	0.0	0
9:00 PM to 10:00 PM	0.00%	0.0	0	0.0	0.0	0.0	0
10:00 PM to 11:00 PM	0.00%	0.0	0	0.0	0.0	0.0	0
11:00 PM to 12:00 AM	0.00%	0.0	0	0.0	0.0	0.0	0

Notes: Waste flows based on average conditions. Actual data may vary based on normal daily fluctuations and seasonal conditions.

LEGEND

- (1) Tonnage delivered each hour to the facility by Tipping vehicles. Delivery patterns will be random, but are calculated as immediate.
- (2) Number of Tipping vehicles tipping per hour. Calculated by: (2) = (1) / Avg. Tons / Tipping Vehicle input.
- (3) Tonnage out is calculated as a function of Hourly Tonnage (1), Tons on Floor (5), and Max Processing Rate (input).
- (4) Tonnage Accumulated/hr represents Hourly Tonnage (1) less Max Processing Rate (input)
- (5) Tonnage on Floor is calculated as a function of Hourly Tonnage (1), Tonnage Accumulation/hr (4), and Max Processing Rate (input).
- (6) Total potential yardage on floor, calculated from Tonnage on Floor (5) and On Floor Waste Density (input).

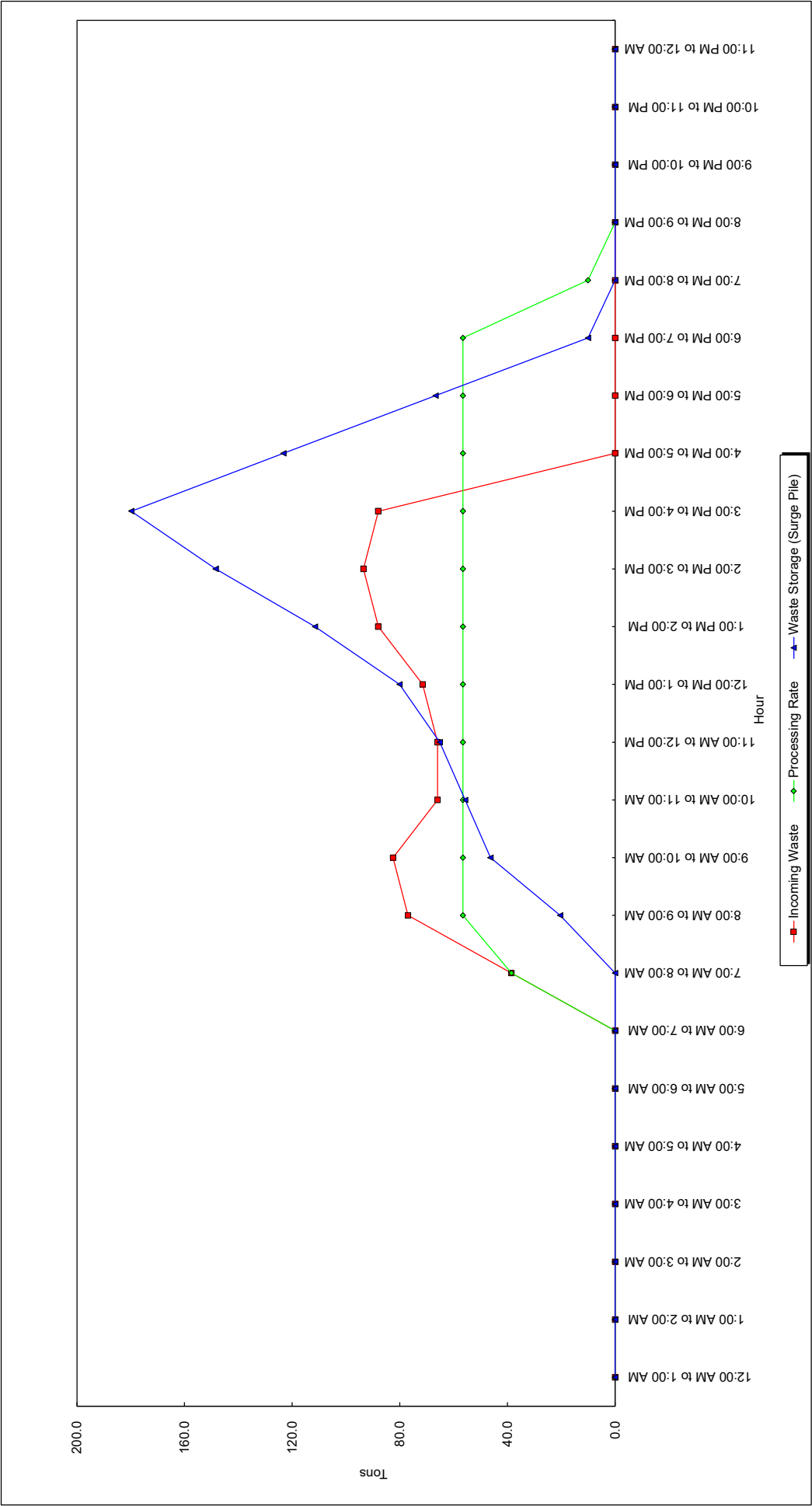


Client Name:	IWS Transfer Systems of NY, Inc.	Project Name:	Goshen Transfer Station Permit Modification
Subject:	Material Processing (670 tpd)	Project #:	4223429

Designed By:	KMT	Date:	2/22/2024	Checked By:	JCP & ACS	Date:	3/18/2024
				Page No.	3 of 4		

Tipping Floor Surge Capacity - Graph 1

1 Day Operating Scenario Incoming Waste Flow of 671 Ton Per Day



Attachment 4

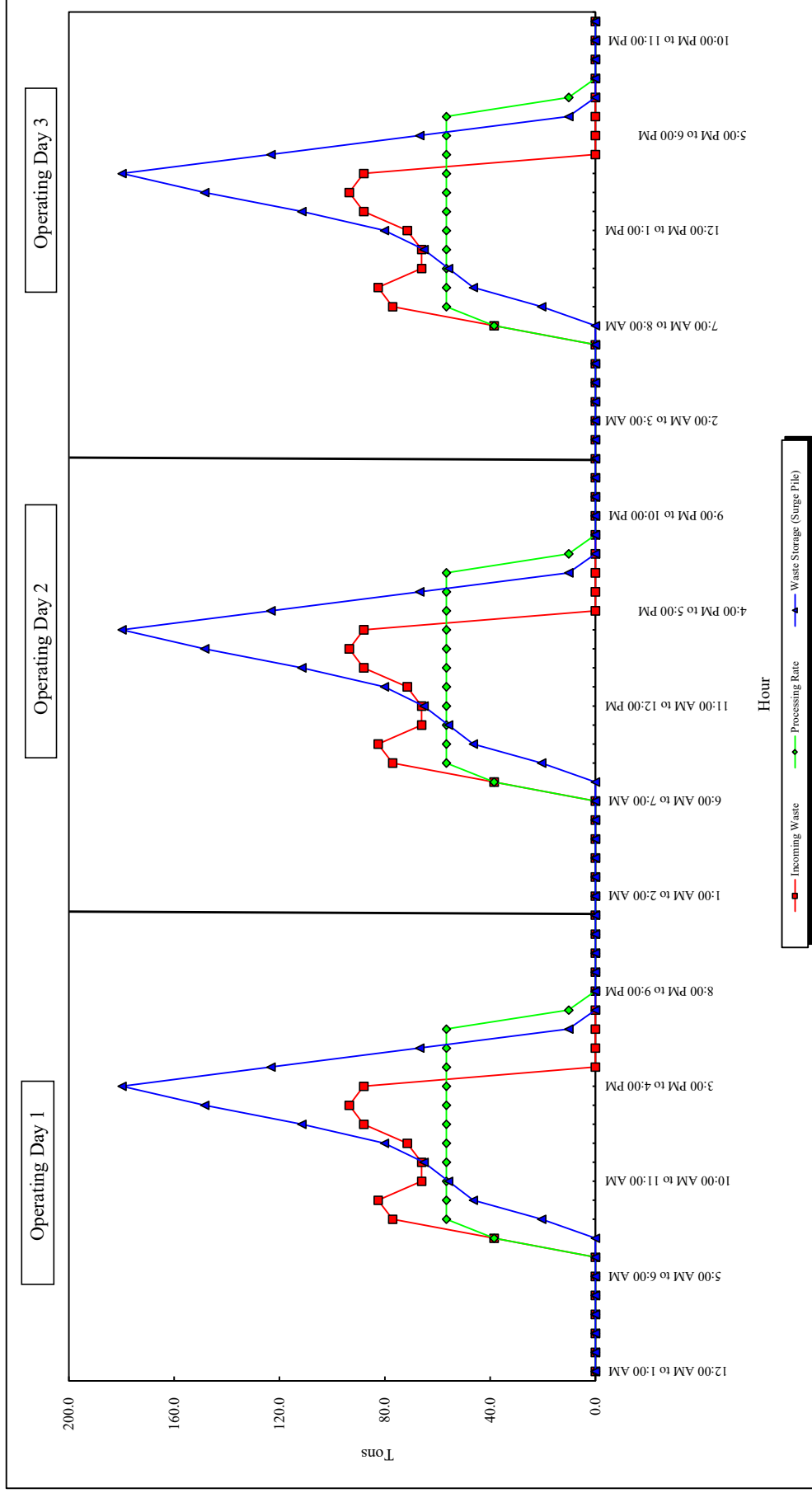


Client Name:	IWS Transfer Systems of NY, Inc.	Project Name:	Goshen Transfer Station Permit Modification
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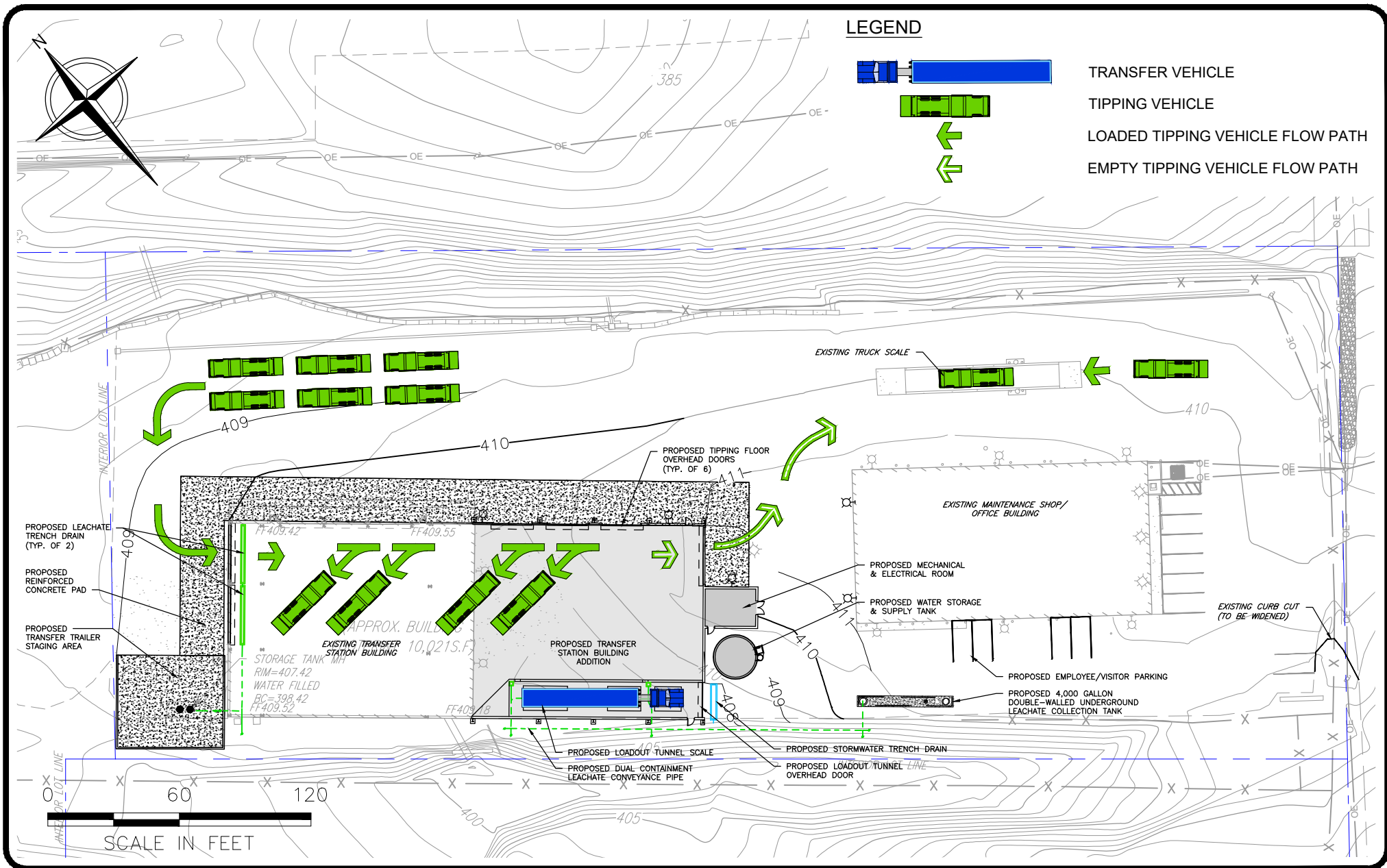
Designed By:	KMT	Date:	2/22/2024	Checked By:	JCP & ACS	Date:	3/18/2024
				Page No.	4 of 4		

Tipping Floor Surge Capacity - Graph 2

Incoming Waste Flow of 671 Ton Per Day



Figures



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 APPROVED BY KMT



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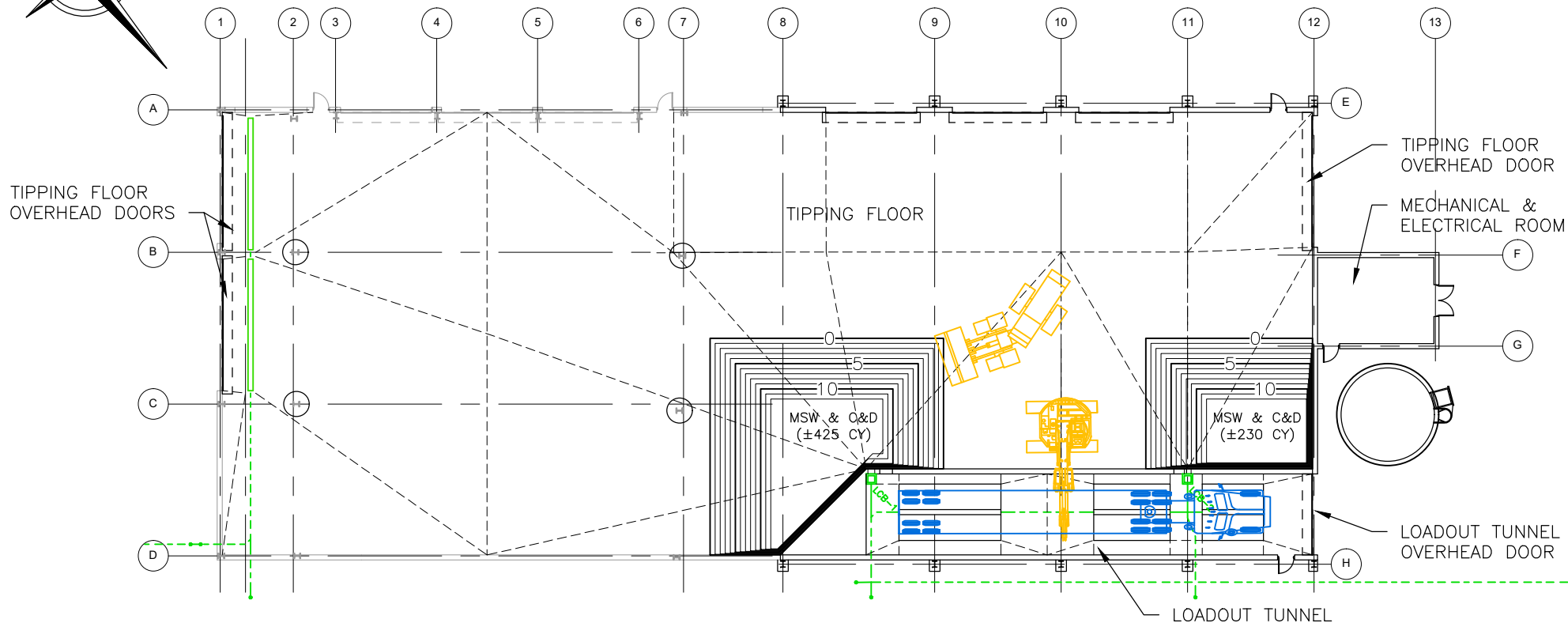
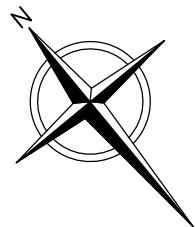
I.W.S. TRANSFER SYSTEMS OF N.Y., INC.
 GOSHEN TRANSFER STATION
 95 HARTLEY ROAD, GOSHEN, NEW YORK

**PROPOSED FACILITY MODIFICATIONS
 QUEUING - OPERATIONAL SITE PLAN**

FIGURE NO.

1

PROJECT NO.
 4223429



LEGEND:

- MAJOR CONTOUR
- MINOR CONTOUR



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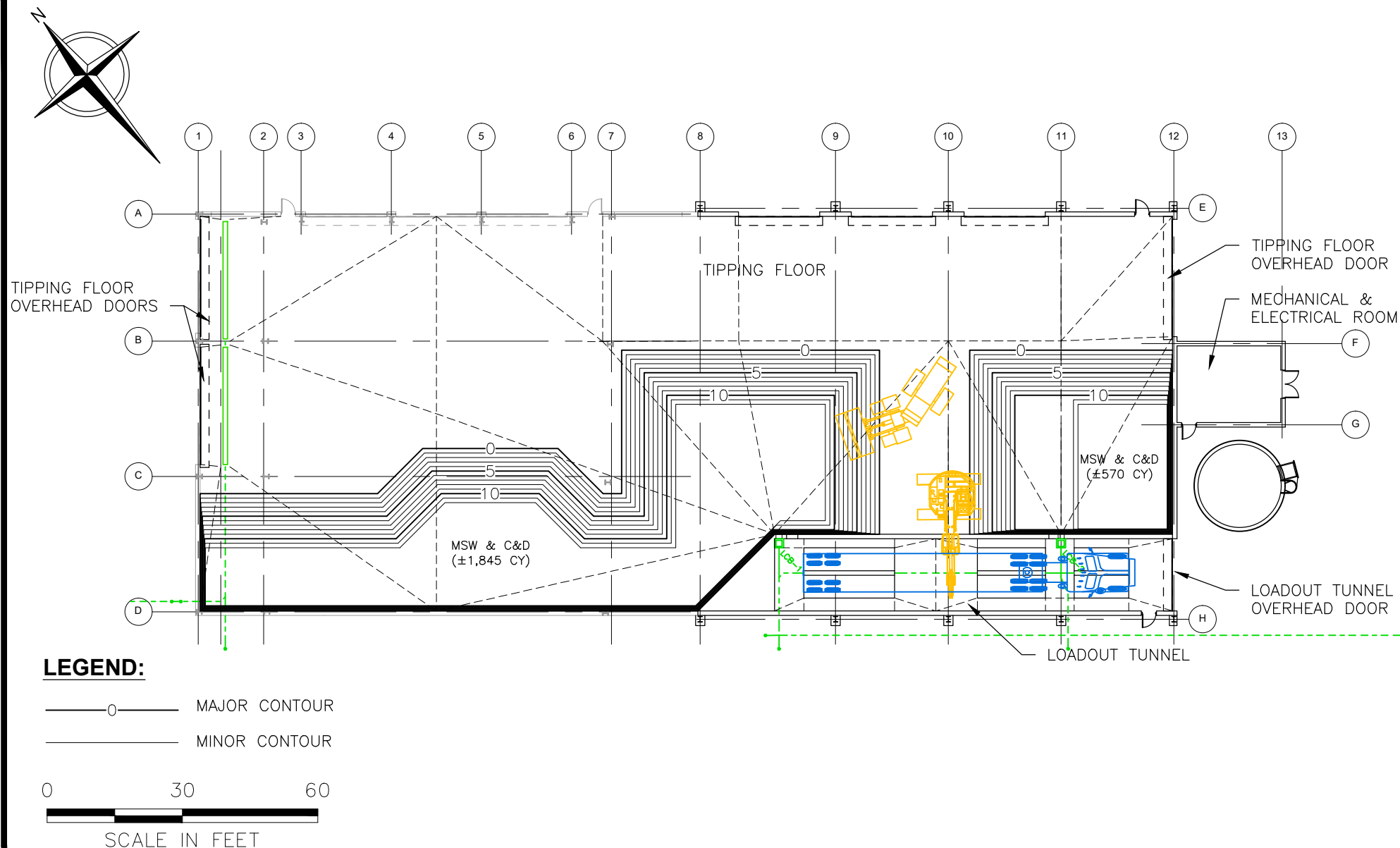
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I.W.S. TRANSFER SYSTEMS OF N.Y., INC.
GOSHEN TRANSFER STATION
95 HARTLEY ROAD, GOSHEN, NEW YORK

PROPOSED FACILITY MODIFICATIONS
TIPPING FLOOR OPERATIONAL SURGE PILE VOLUME

FIGURE NO.
2
PROJECT NO.
4223429



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I.W.S. TRANSFER SYSTEMS OF N.Y., INC.
GOSHEN TRANSFER STATION
95 HARTLEY ROAD, GOSHEN, NEW YORK

PROPOSED FACILITY MODIFICATIONS
TIPPING FLOOR EMERGENCY STORAGE PILE VOLUME

FIGURE NO.

3

PROJECT NO.
4223429

APPENDIX D

AIR EXCHANGE CALCULATIONS



**Goshen Transfer Station
IWS Transfer Systems of N.Y., Inc.
Air Exchange System**

By: KMT Date: 2/13/2024
Check: _____ Date: _____

Wall Mounted Air Exchange Fan Unit Specifications (Or Equivalent)

Manufacturer	Model	Flowrate (CFM)	Qty	Total Flowrate (CFM)
Greenheck	SBS-2L48-30	20,000	4	80,000

Building Volume Air Changes Per Hour

Fan Flowrate (CF/hr)	Building Volume (CF) (See Below for Volume Calculations)	Building Volume Air Changes/hr
4,800,000	600,346	8.0

The Air Exchange System specified for installation in the Construction Bid Documents will utilize the equipment noted above or equivalent to provide a minimum of six (6) building volume air changes per hour.

**Building Volume Calculations
Tipping Area and Proposed Loadout Tunnel**

Existing Tipping Area Volume V_1 (CF)	Proposed Tipping Area and Loadout Tunnel Volume V_2 (CF)	Total Volume (CF)
310,651	289,695	600,346

Note:

1. The locations of air exchange fan units and inlet louvres are depicted on the Engineering Drawings.

Model: SBS-3L48-30

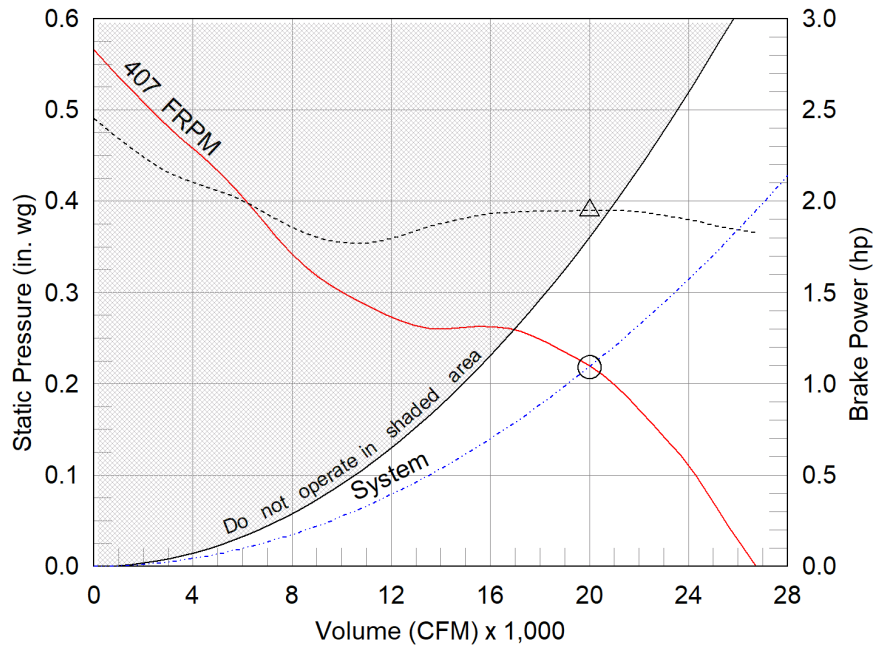
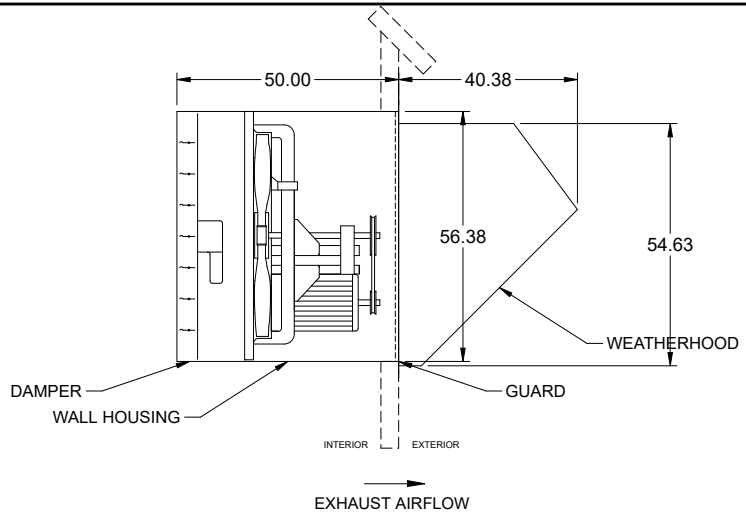
Sidewall Belt Drive Fan

Motor Access From Ext. of Bldg.

Dimensional	
Quantity	4
Weight w/o Acc's (lb)	302
Weight w/ Acc's (lb)	778
Max T Motor Frame Size	215
Optional Damper (in.)	50 x 50
Wall Opening (in.)	57.75 x 57.75

Performance	
Requested Volume (CFM)	20,000
Actual Volume (CFM)	20,000
Total External SP (in. wg)	0.218
Fan RPM	407
Operating Power (hp)	1.95
Elevation (ft)	341
Airstream Temp.(F)	70
Air Density (lb/ft3)	0.074
Drive Loss (%)	4.9
Tip Speed (ft/min)	5,111
Static Eff. (%)	37

Motor	
Motor Mounted	Yes
Size (hp)	3
Voltage/Cycle/Phase	208/60/3
Enclosure	TEFC
Motor RPM	1725
Efficiency Rating	NEMA Premium
Windings	1
NEC FLA* (Amps)	10.6



- △ Operating Bhp point
- Operating point at Total External SP
- Fan curve
- System curve
- Brake horsepower curve

Static Pressure Calculations

External SP	0.125 in. wg
Damper	0.047 in. wg
Wall Housing	0.046 in. wg
Total External SP	0.218 in. wg

Sound Power by Octave Band

Sound Data	62.5	125	250	500	1000	2000	4000	8000	LwA	dBA	Sones
Inlet	87	84	79	77	74	71	67	60	80	68	17.1

Notes:

All dimensions shown are in units of in.
*NEC FLA, MCA and MOP are for reference only – based on tables 430.248 or 430.25 of National Electric Code 2020. Actual motor FLA may vary, for sizing thermal overload, consult factory. MCA and MOP values shown only account for the motor, not accessories (damper actuator, field supplied VFD, etc).
LwA - A weighted sound power level, based on ANSI S1.4
dBA - A weighted sound pressure level, based on 11.5 dB attenuation per Octave band at 5 ft - dBA levels are not licensed by AMCA International
Sones - calculated using AMCA 301 at 5 ft
The motor provided on this fan is inverter ready and meets NEMA MG1 Part 31.4.4.2



Model: SBS-3L48-30

Sidewall Belt Drive Fan

Standard Construction Features:

- Galvanized steel fan panel - Die formed, galvanized steel drive frame assembly
- Fabricated steel propeller for Levels 1 and 2, welded and painted steel for Level 3
- Adjustable motor pulley - Ball bearing motors - Fan shaft mounted in ball bearing pillow blocks - Static resistant belts - Corrosion resistant fasteners

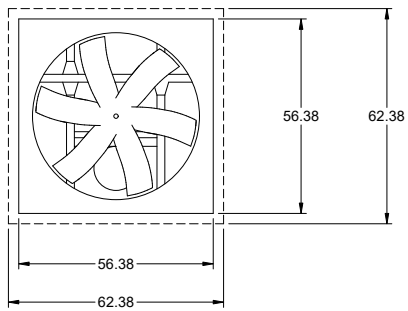
Selected Options & Accessories:

NEMA Premium Efficient Motor - meets NEMA Table 12-12
Motor VFD Rated without Shaft Grounding Protection
UL/cUL 705 Listed - "Power Ventilators"
Airflow Direction: Exhaust
Long Wall Hsg, Flush Exterior, w/ OSHA Grd.
Motor Access: From Ext. of Bldg.
Weatherhood, Aluminum 45 deg. with Bird Screen
Extended Bearing Lube Lines
Bearings with Grease Fittings
One Point Wiring
Unit Warranty: 1 Yr (Standard)
Damper Mounted, VCD-23-PB-50X50, Not Coated
Damper Actuator (AFBUP), 208 VAC Actuated w/ 115 VAC Transformer

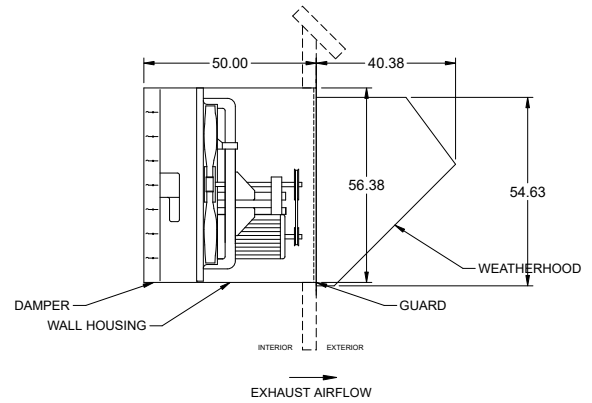
Assembly Drawing

Type: Sidewall Belt Drive Fan

DRAWING VIEWED FROM INTERIOR



END VIEW DIMENSIONS ARE FOR HOUSING NOT FAN PANEL
WALL OPENING 57.75 SQ.
MOTOR IS ACCESSIBLE FROM EXTERIOR OF BUILDING
THIS IS AN EXHAUST FAN DUE TO MOTOR ORIENTATION

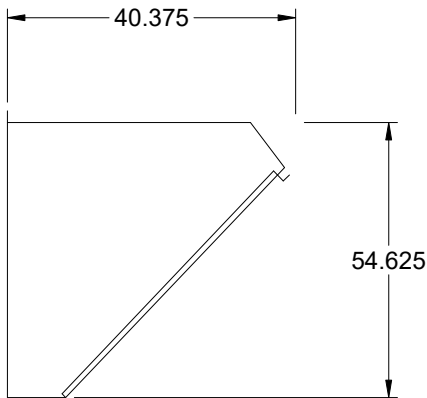


Notes: All dimensions shown are in units of in..

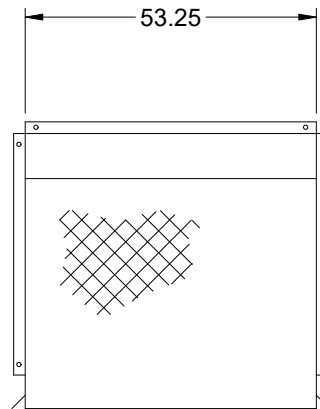
45 Degree Weatherhood

Standard Construction Features:

Galvanized Steel or aluminum construction. 0.5 welded wire birdscreen. Prepunched mounting holes. Field assembled.



SIDE VIEW

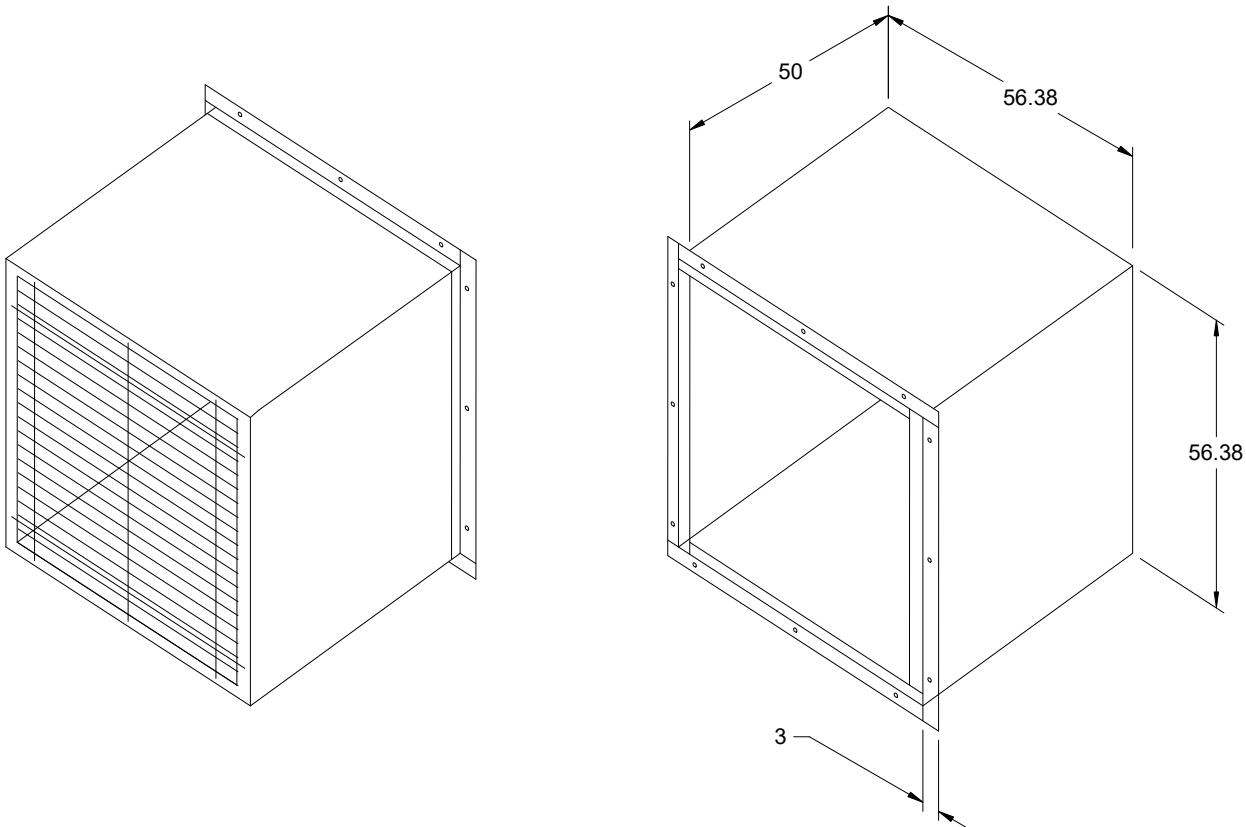


ELEVATION VIEW

Long Wall Housing

Standard Construction Features:

- Galvanized steel construction - Heavy gauge mounting flanges - Pre-punched mounting holes - Inside flanges allow damper to be mounted - Overlapping weatherhood flange keeps rain out - OSHA Protective guard of welded steel wire completely protects the drive side of the wall housing.



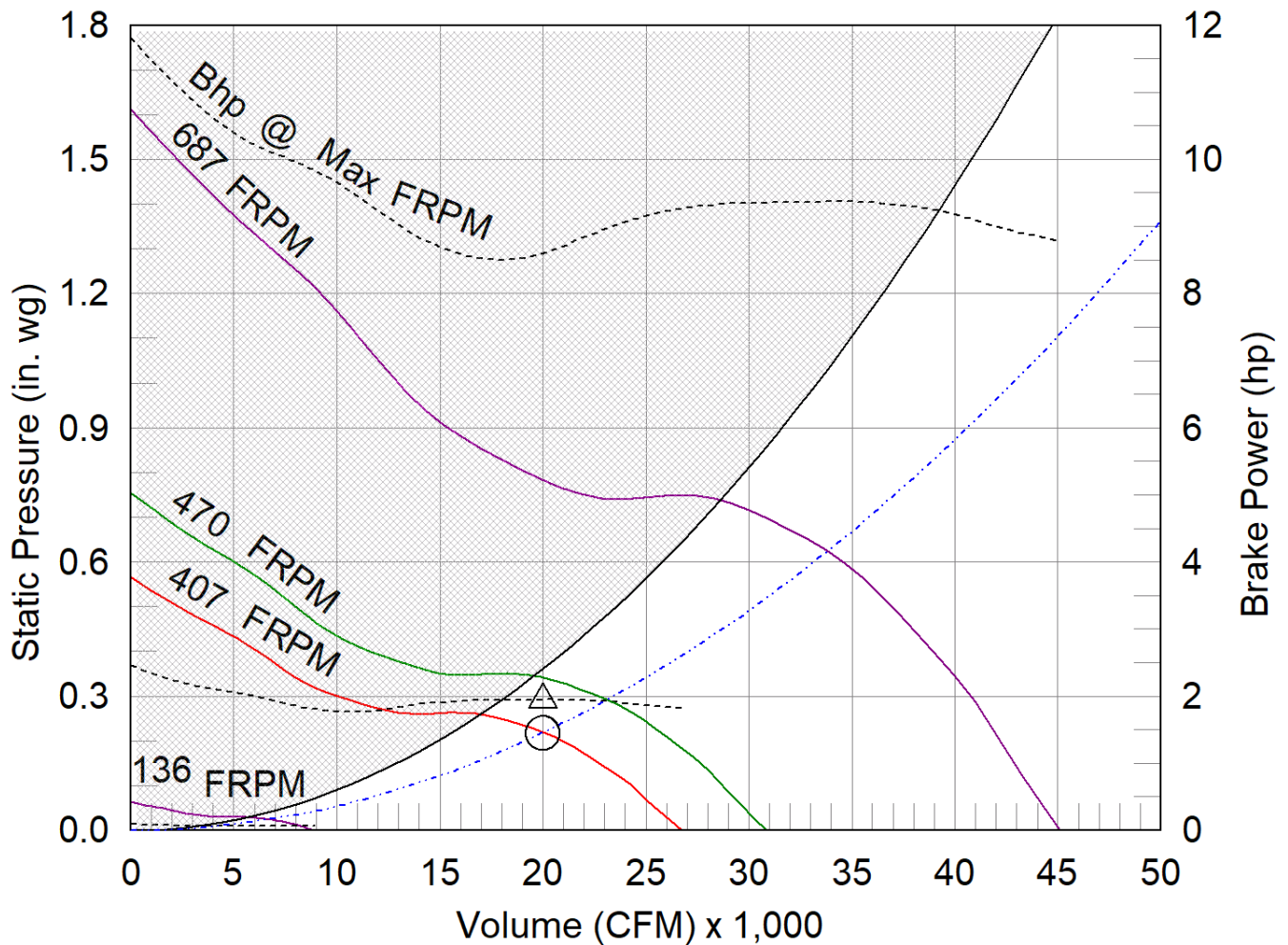
Notes: All dimensions shown are in units of in.

SBS-3L48-30

Min/Max Fan Curve

Performance

Requested Volume (CFM)	Actual Volume (CFM)	Total External SP (in. wg)	Fan RPM	Operating Power (hp)
20,000	20,000	0.218	407	1.95



- △ Operating Bhp point
- Operating point at Total External SP
- Fan curve
- System curve
- Brake horsepower curve

ESD-635 6 in. Frame, 35 deg Blade

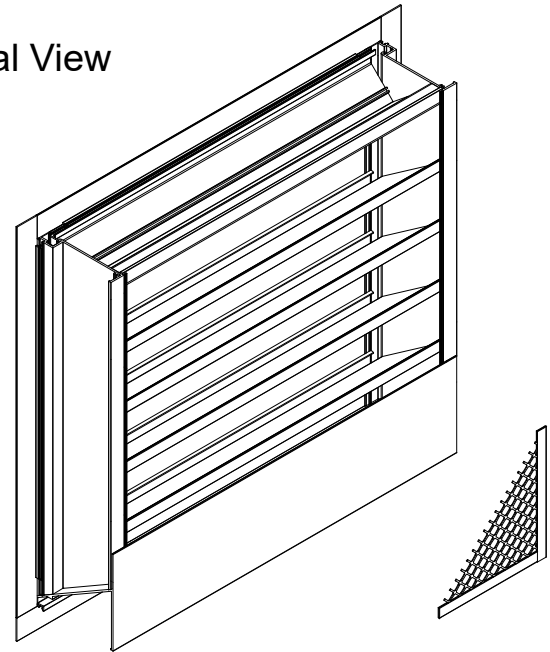
APPLICATION & DESIGN

ESD-635 is a weather louver designed to protect air intake and exhaust openings in building exterior walls. Design incorporates drain gutters in the head member and horizontal blades to channel water to the jambs where water is further channeled through vertical downspouts and out at the sloped sill. The ESD-635 is an extremely efficient louver with AMCA LICENSED PERFORMANCE DATA enabling designers to select and apply with confidence.

PRODUCT DETAILS

Frame:	6 in. x 0.081 in. Frame Thickness
Frame Type:	Flanged, 1.5 in., Exterior
Blades:	0.081 in. Fixed Blade Thickness
Material:	Aluminum
Sizing:	Nominal
Shape:	Rectangular
Construction:	Mechanically Fastened

Internal View



Width and Height furnished approximately 0.25 under size.

OPTIONS & ACCESSORIES

Finish:	Mill
Bird Screen:	0.75 in. x 0.05 in., Flat Expanded Aluminum, Internal, Mill Finish
Union Label:	No Preference
Warranty:	1 year Standard Product Warranty

SUMMARY

ID #	TAG	QTY.	W (in.)	H (in.)	FREE AREA (ft ²)	FREE AREA (%)	SECT. WIDE	SECT. HIGH	SHIP SECT.
4-1		4	108	84	40.12	63.7	1	1	4

PERFORMANCE

ID #	TAG	APPLICATION	VOLUME (CFM)	PRESSURE DROP (in. wg)	FREE AREA VELOCITY (ft/min)	BPWP (ft/min)
4-1		Intake	20,000	0.04	495	1,250

**Calculated pressure drop does not include the effects of screens, filters or other accessories

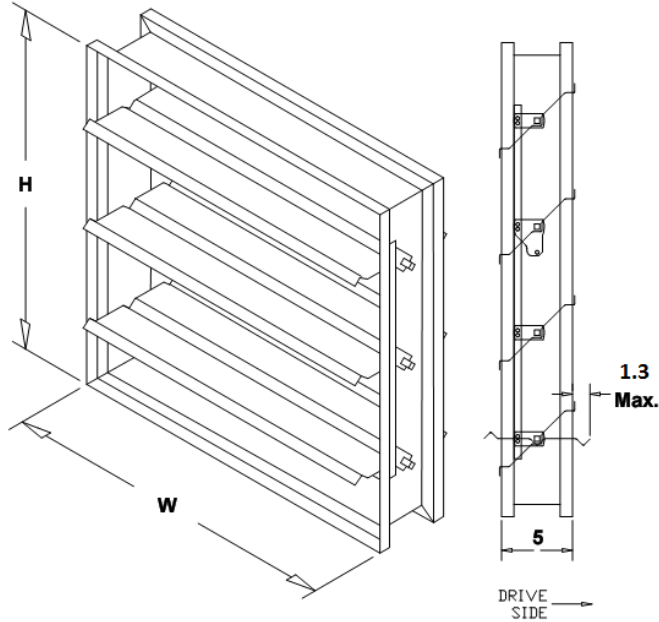
Total Louver Qty:	4	Total Weight (lb):	990	Louver Area (ft²):	252
Total Ship Sect.:	4				

**Weight shown is an estimate only based on the default base product configuration without options or accessories.

Larger openings may require field assembly of multiple louver panels to make up the overall opening size. Individual louver panels are designed to withstand windloads up to a maximum of 25 PSF (size and configuration dependent). Design, materials and installation of structural reinforcement required to adequately support large sections or multiple section assemblies within a large opening are not provided by Greenheck. Options and accessories including, but not limited to, screens, filter racks, louver doors, and blankoff panels are not subject to structural analysis unless indicated otherwise by Greenheck. Unless specifically indicated, the following are NOT included in the quote provided: structural steel, installation hardware (anchors, angle clips, continuous angles, shims, fasteners, inserts, backer rod and sealant), field measuring and/or installation, miscellaneous flashing, trim or enclosures, blank off panels, mullion covers or mullion hardware, hinged frames or removable subframes, custom bird/insect screen, 3-coat, metallic and/or exotic paint finishes, bituminous paints for unlike metals, any applicable taxes, stamped and sealed structural calculations seismic calculations or job specific engineered submittal drawings.

Control Damper

Model: VCD-23



Standard Construction Features:

- Model VCD-23 is a well built low leakage control damper for automatic control or manual balancing applications
- Galvanized 16 ga channel frame
- Galvanized blades with reinforcements
- Side mounted steel linkage is concealed in the frame to prevent additional pressure drop
- Axles are steel and 0.5 in. dia.
- Synthetic axle bearings
- Width and height furnished approximately 0.25 in. undersized
- Field wiring is required to individual components

Damper Configuration:

ID #:	Tag:	Quantity:	W (in.):	H (in.):	Act Qty:	Actuator Model:
6	EF-1,2,3,4	4	50	50	1	AFBUP

Notes: All dimensions shown are in units of in.
Width And height furnished approximately 0.25 in. undersize

Louvers Mill Aluminum Finish

Aluminum in the mill finish state will be commercially smooth and substantially free from blisters, inclusions, voids, slivers and kinks. Slight discontinuity resulting from flow and die lines inherent in the extrusion process will exist. Occasional discontinuities that can be reasonably removed making the surface suitable for finishing operations are acceptable. Although aluminum is naturally resistant to corrosion, its appearance changes as a result of weathering and aging. Aluminum in the mill finish state may also have a non-uniform surface appearance resulting from oil, heat and oxide discoloration inherent in the manufacturing process.

APPENDIX E

EQUIPMENT SPECIFICATIONS

**I.W.S. TRANSFER SYSTEMS OF N.Y., INC.
GOSHEN TRANSFER STATION
95 HARTLEY ROAD, GOSHEN, NEW YORK**

EQUIPMENT LIST

Equipment No.	Number of Units on Site	Equipment Description
1	1	Aquastore Water Storage Tank or equal
2	4	Greenheck Fan Model SBS-3L48-30 or equal
3	1	Highland 4,000 Gallon Dual Walled Underground Leachate Storage Tank or equal
4	1	Rice Lake Loadout Tunnel Scale or equal

WATER STORAGE TANK

AQUASTORE®

Glass-Fused-To-Steel Liquid Storage Tanks

CST



A LEGACY OF INNOVATION

CST Industries, Inc. has a long and storied history of turning raw steel into the finest storage tanks available. Our unique glass-fused-to-steel technology was introduced more than 67 years ago. Today, CST is dedicated to the design, fabrication and installation of glass-fused-to-steel storage tanks.

After more than 100,000 installations of field proven performance, Aquastore® tanks remain the markets preferred choice for potable water storage and liquid applications. With tens of thousands of satisfied customers, Aquastore tanks are engineered to be the very best.

CST has an ongoing research/product improvement program dedicated to constantly enhancing our manufacturing processes. As the leading innovator, CST ensures **Vitrium™ TiO₂** and **Edgecoat II™** technology is utilized on every tank for maximum corrosion resistance and the longest life span available. When you purchase an Aquastore, you get the best tank, EVERY TIME.

With Aquastore, you get the highest engineered quality, best service, longest product life and greatest value in liquid storage tanks.

Aquastore owners choose CST's glass-fused-to-steel technology over all other tank designs for several reasons:

- Never EVER needs painting
- Aquastore tanks are manufactured using Vitrium coating technology enhanced with TiO₂
- Edgecoat II technology, the ONLY process in the world that provides optimum glass encapsulation on all (4) four sides of the sheet
- Greater lifetime value compared to other tank designs
- Fastest construction time – Easy assembly without cranes or special equipment
- Expandable to accommodate future requirements
- Available in diameters from 11 feet (3.3 m) to 243 feet (74 m) and capacity from 20,000 gallons (75 cu m) to over 6 million gallons (22,700 cu m)
- Specific tank designs, options and accessories to meet every customers needs
- Lowest life cycle cost of all other available tank designs



All Aquastore tanks are manufactured exclusively in the USA with only USA steel and supported by the world's most experienced Local Authorized Dealer Network

Steel Gives You Strength
Glass Gives You Protection



ENHANCED GLASS-FUSED-TO-STEEL TECHNOLOGY

Aquastore's glass-fused-to-steel is the premium technology in the tank market. Glass coating's physical properties are specially suited to municipal and industrial storage applications. The factory-applied silica glass coating on Aquastore tanks forms a hard, inert barrier for both the interior and exterior tank surfaces to guard against weather and corrosion. Glass-fused-to-steel is impermeable to liquids and vapors, controls undercutting caused by corrosion and offers excellent impact and abrasion resistance. The color won't fade or chalk and graffiti can easily be removed. ***It never needs painting!***



A multi-step process is the heart of the glass-fused-to-steel technology system:

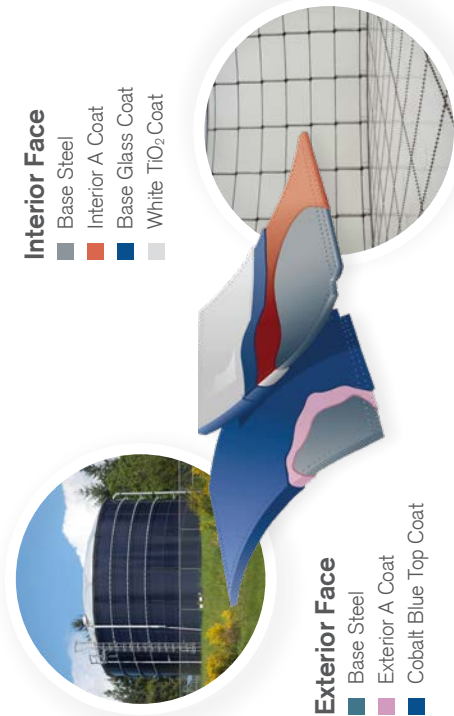
- Fabricated sheets are grit blasted to a uniform, near white surface
- Formulations of borosilicate, minerals, water and clays are blended into a sprayable slurry called "slip"
- After inspection, the slurry is fused to the steel sheets at temperatures above 1500° F (815° C) resulting in an ionic exchange of materials and forming a covalent bond producing the distinctive glossy Aquastore glass finish
- The molten glass reacts with the profiled steel surface to form an inert, inorganic chemical and mechanical bond

State-of-the-art porcelain enameling furnace improves quality, saves energy, increases production and speeds delivery of glass-fused-to-steel products to customers.

The interior of ALL Aquastore tanks feature Vitrium™ coating technology enhanced with titanium dioxide (TiO₂) for the toughest glass available. This coating combines the outstanding chemical and physical resistant properties of titanium-enhanced glass with a highly engineered, ultra-fine glass bubble structure essential to flexibility, quality and longevity. This process results in high performance glass-fused-to-steel technology. Vitrium features and benefits include:

- Tough TiO₂ glass formulations provides longer life
- White interior is easier to inspect than darker coatings
- Factory certified holiday-free sheets
- Designed for use in both cold and hot climates
- Designed, fabricated, shipped and supported within the USA

Guaranteeing the best quality available from our manufacturing facility to your jobsite.



Glass frit is specially formulated to produce the distinctive cobalt blue Aquastore glass coating.

» Edgecoat II™

ENGINEERED EDGECOAT TECHNOLOGY

Edgecoat II™ is a result of CST's commitment to an ongoing product development and improvement program. This continuous innovative *Edgecoat II technology is the ONLY process in the world that provides optimum glass encapsulation on all (4) four sides of the sheet edges*. CST took the best Edgecoat technology in the world and made it better with Edgecoat II.

Following Porcelain Enameling Institute guidelines (PEI-101), Edgecoat II sheets are mechanically rounded to specific radii that provides maximum glass adhesion to steel. The combination delivers the maximum corrosion resistance of Vitrium glass coating with the greatest protection on every sheet.

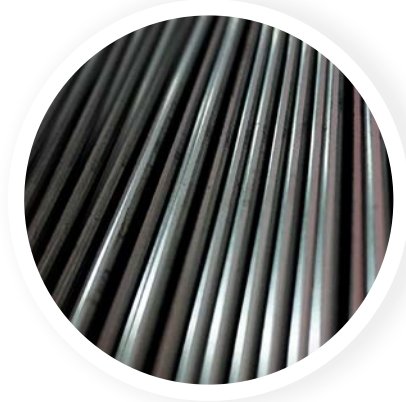
The Edgecoat II engineered approach involves stringent plant quality control procedures to ensure the Edgecoat II remains in place throughout the life of the tank.

Sheet edge corrosion on steel is aesthetically unpleasant and will significantly limit the life of your storage tank. Due to the manufacturing expense and professional engineering necessary to coat the steel edges, other glass tank providers will leave them uncoated and exposed; relying solely on the sealant fillet to prevent corrosion in this area. CST's improved process of mechanically rounding the sheet edges to exact radii ensures adherence of the glass for complete encapsulation on every sheet edge.



Aquastore glass-fused-to-steel tanks with Vitrium TiO₂ and enhanced Edgecoat II technology, offer complete encapsulation and corrosion protection. CST continues to lead innovative improvements in areas that are most susceptible to environmental attack.

The physical properties of all Aquastore tanks' glass coating are especially suited to municipal and industrial liquid storage applications. The tank designs incorporate recognized standards assuring high-quality long-lasting municipal and industrial liquid storage tanks.



Engineered Edge

Benefits of Edgecoat II include:

- 5 mils of glass encapsulation on every sheet edge
- Glass is applied on all (4) four sides of the rectangular sheet edges providing the greatest protection
- Edges are engineered to ensure optimum radii for each individual gauge of steel providing the maximum and consistent glass edge
- No sharp edges on tank sheets, eliminating safety hazards
- Highest quality finish

TANK ECONOMICS & LIFETIME VALUE

All tanks are not created equal! The glass-fused-to-steel technology in an Aquastore tank delivers greater lifetime value than any other tank provider. When you add up the tank benefits over its life cycle, the advantages of an Aquastore cannot be beat. It is simply the best quality, lowest maintenance and most flexible tank available.

CONSIDERING CONCRETE OR WELDED?

The biggest economic advantage is that an Aquastore tank never needs painting! The budgeted dollars that may be used to repair a concrete tank or repaint a welded tank every 8 – 15 years can be diverted to other municipal or industrial needs. The modular design allows for rapid installation and flexibility when compared to concrete and welded construction.

Concrete tanks are expensive, involve long construction periods, need a lot of room to build and are not "maintenance free". AWWA allows for leaking, and some level of cracking is expected. Concrete tanks require a lengthy construction time compared to an Aquastore tank, especially when expensive concrete roofs are involved and must be field coated to meet NSF approval.

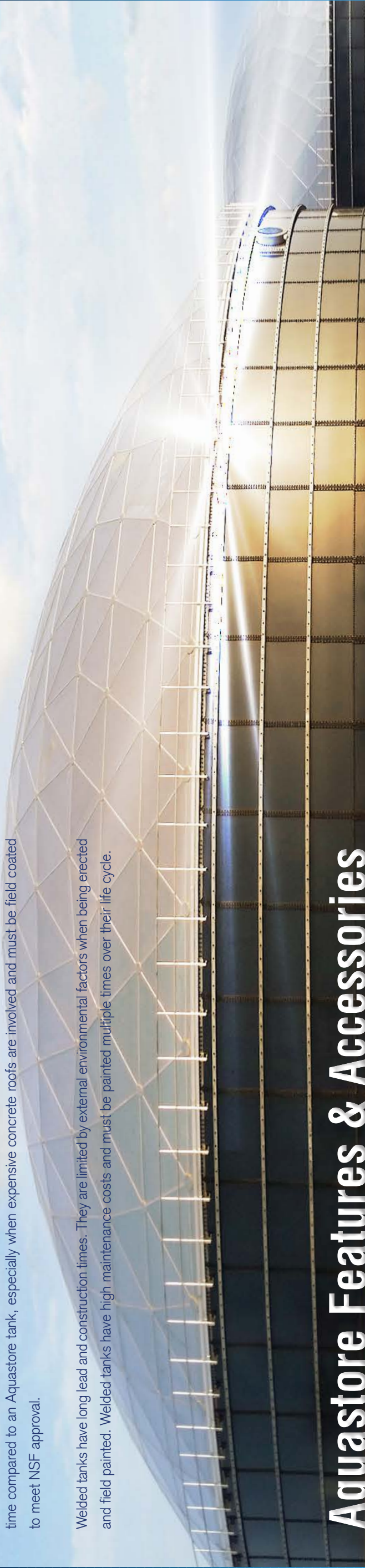
Welded tanks have long lead and construction times. They are limited by external environmental factors when being erected and field painted. Welded tanks have high maintenance costs and must be painted multiple times over their life cycle.

EXTERIOR COLOR OPTIONS

Aquastore glass coatings are available in standard cobalt blue and four other exterior colors. Inquire for custom colors.

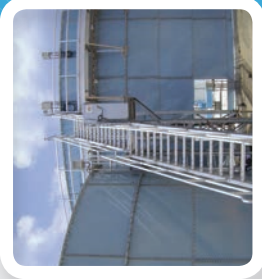
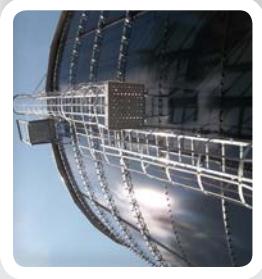
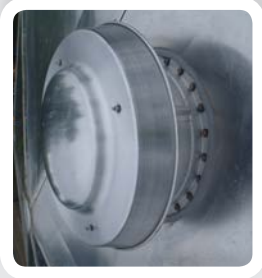


Look for the white interior as a result of the TiO₂ coating formula and technology that ensure the maximum corrosion protection for your tank. The white interior provides an added benefit of full visual exposure of your tank during inspections.



Aquastore Features & Accessories

Cathodic Protection	Gravity Vent	Ladder: Cage & Platform	Sidewall Manways	Hardware and Sealants	Accessories & More
An Aquastore tank's progressive cathodic protection system uses sacrificial anodes to protect the reinforcing bars, mitigate corrosion and provide protection to internal submerged surfaces of the tank. It is incorporated into the Aquastore tank's warranty.	Aquastore tank gravity vents are designed to allow for air exchange during filling and emptying. They are equipped with corrosion-resistant bird and insect screens.	Aquastore tank ladders are constructed of aluminum rails and rungs with hot-dip galvanized cages and step off platforms. Ladders with locking safety cage doors are available.	Aquastore tank manways are designed in accordance with AWWA D103 Standards. They are 24 inches (61 cm), 30 inches (76 cm) or 36 inches (91 cm) in diameter and are manufactured with hot-dip galvanized or stainless steel. Manways are provided with a davit hinge connection for easy access.	The hardware and sealants are specific to each application. Chlorine resistant sealants, hardware with protective covers and heavy duty plastic bolt caps are also available for added protection.	A variety of accessories are available to meet specific needs. Accessories include: • Roof walkways, railings & staircases • Level indicators • Nozzles • And many more



TANK APPLICATIONS

Aquastore storage tanks with Vitrium glass-fused-to-steel are ideal for the following designs and applications:



Composite Elevated



Standpipe



Leachate



Ground Storage Tank



Fire Protection



Anaerobic Digestion



Municipal Wastewater Clarifier / Sludge / Storage / Mixing

FROM THE TOP DOWN - FASTER, SAFER CONSTRUCTION

Every Aquastore tank is factory engineered to customer specifications. Since all components are manufactured in the factory and easily assembled, Aquastore tanks can be installed in many types of weather conditions that field-welded steel or concrete tanks cannot. Tanks are assembled from the top down by factory-trained professional building crews using CST's Proof Load Tested and PE stamped jacking systems that safely and progressively elevate the structure without the need for expensive cranes, large staging areas or extensive scaffolding. Erection crews can stay safely on the ground. This construction method enables rapid, logical progress for timely completion.

- Small footprint
- Site work savings
- Year round construction
- Fast turnaround
- Quick erection
- Trained and certified crews

Floors

Aquastore floors can be glass-fused-to-steel or reinforced concrete. Steel floors have the same superior glass coating as the Aquastore glass-fused-to-steel sheets. When using concrete, Aquastore walls are embedded in the foundation. Authorized Aquastore Dealers can provide site preparation and foundation installation.

Sidewalls

Sidewall erection is completed using a series of specially engineered motorized jacks. Each glass-fused-to-steel panel is bolted and sealed into place. Upon completion, the motorized jacks raise the sidewall ring so subsequent rings can be erected. Erecting an Aquastore tank does not require heavy-load cranes or lifting equipment on-site. This unique installation process allows for construction in remote regions, as well as metropolitan areas.

Roofs or Domes

The flush batten OptiDome® is a next generation aluminum geodesic dome. OptiDome aluminum domes incorporate a flush batten design that effectively sheds water and reduces ponding on the panels. With a Double Web I-Beam customers get the most efficient, functional, long lasting dome solution in the industry. OptiDome is easy to install and requires less sealant than typical geodesic domes. CST's OptiDome design efficiently complies with the latest requirements that have been adopted by 2010 Aluminum Design Manual, Eurocode, and International Building Code 2012.

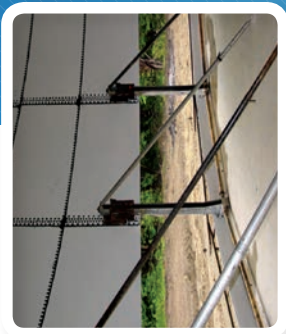
Every OptiDome is custom designed to meet the specific requirements of each project and can be engineered for any snow, wind or suspended load capacity, as well as span-to-rise-ratio. The all-aluminum free span OptiDome's are available for the complete range of Aquastore tanks.

Glass-fused-to-steel roofs are available up to 31' in diameter and aluminum geodesic domes are available in all sizes.

Glass-fused-to-steel roofs are manufactured with hard tooling and include radially sectioned steel panels. The roofs are assembled using the same sealant and bolting techniques as the sidewall panels.

Sealants

Aquastore tanks feature sealants specifically formulated for chemical resistance appropriate to the application. Each sealant is inspected on a batch-by-batch basis to ensure quality. The sealant is suitable for contact with potable water and is certified to meet ANSI/NSF Additives Standard 61 for indirect additives and is chlorine resistant. Sealants cure to a rubber-like consistency, have excellent adhesion to the glass coating, low shrinkage and are utilized for both interior and exterior use.



Most Experienced Dealer Network

CST delivers Aquastore tanks through a network of Authorized Aquastore Dealers. These organizations and their sales representatives are available to discuss project requirements from inception to completion. Experience in your region and application knowledge are valuable during all stages, from project development to specification to erection to the completed and tested tank.

Pricing, budget estimates, foundation layouts, project scheduling, approval drawings and foundation construction are just a few of the areas where Authorized Aquastore Dealers can help. Our customers deal with one source from start to finish, including service after installation. Dealers provide excellent customer service, are local and knowledgeable of your area and building requirements.

Authorized Aquastore Dealers offer a turn-key package to customers providing service, support and expertise from start to finish. In addition to selling and erecting an Aquastore tank, dealer sales and service specialists provide the following:

- Value engineering – total cost analysis
- Tank configuration and layout data
- Budgeting
- Product engineering specifications
- Design criteria assistance
- Tank layout drawings
- Approval drawings
- Certified drawings
- Site preparation and layout
- Tank construction scheduling
- Structural calculations
- Tank testing and commissioning
- Tank inspection
- Maintenance services
- Relocation or expansion
- Concrete work
- Pipe work (inlet, outlet, overflow, decant, etc.)
- Insulation (spray foam, battens, etc.)
- Dome installations
- Turn-key tank construction
- After sale service

Turnkey package from site preparation to completed and tested tank.

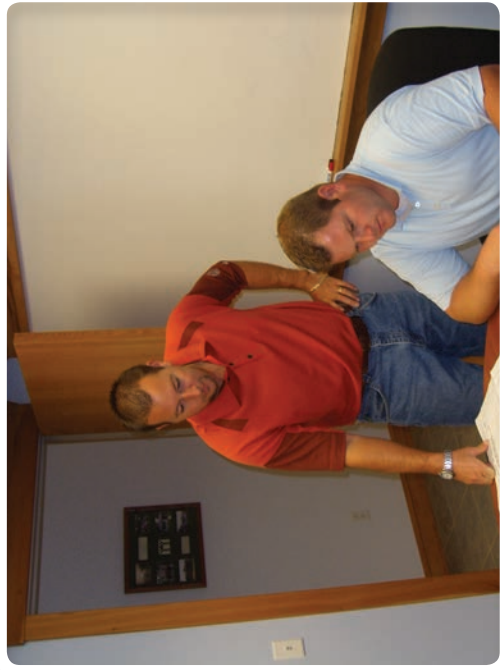


» Best in Industry Warranty

For more than 67 years, CST has offered the most comprehensive manufacturer's warranty in the industry. The field-proven performance history of Aquastore tanks is one more indication that our products are built to last.

An Aquastore tank requires minimal maintenance over its life cycle and CST's Authorized Aquastore Dealers will provide complete service packages tailored to your application needs. Most importantly, the glass-fused-to-steel technology provides protection from environmental impact and never needs painting, saving hundreds of thousands of dollars over time.

Always there when you need us,
just a phone call away...

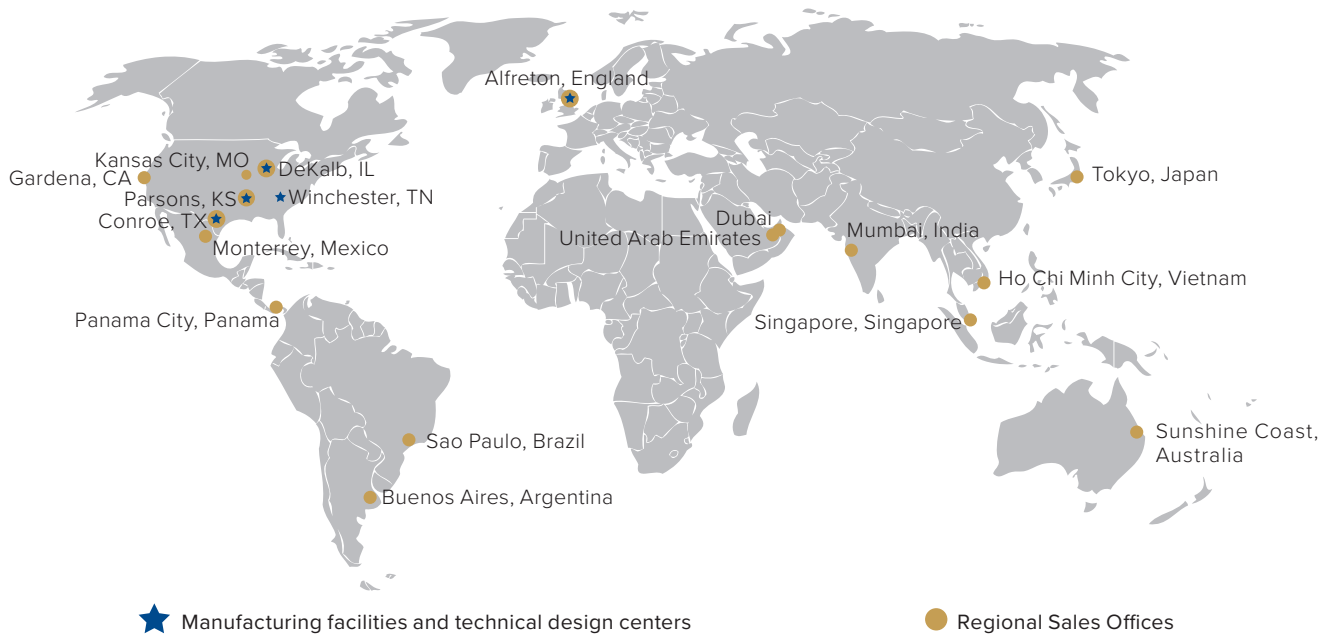


Find your nearest Aquastore Dealer in the dealer locator section at aquastore.com or call **815-756-1551** today!

CST is committed to providing its customers with the highest engineered quality, best service, longest product life and greatest value for every storage solution we supply. Contact CST for all of your water, wastewater and liquid applications.

Worldwide Availability

CST Global Manufacturing and Offices



Certifications and Capabilities:

- ISO 9001:2015
- AISC
- IBC
- Individual State Building Codes
- ANSI/AWWA D103
- NBCC
- FM 4020/4021
- British Standard 7543:2003
- EN 15282/ISO 28765
- NFPA Standard 22
- ANSI/NSF 61



For more information, call **815-756-1551** or visit **aquastore.com** to find an Authorized Aquastore Dealer nearest you.

Model: SBS-3L48-30

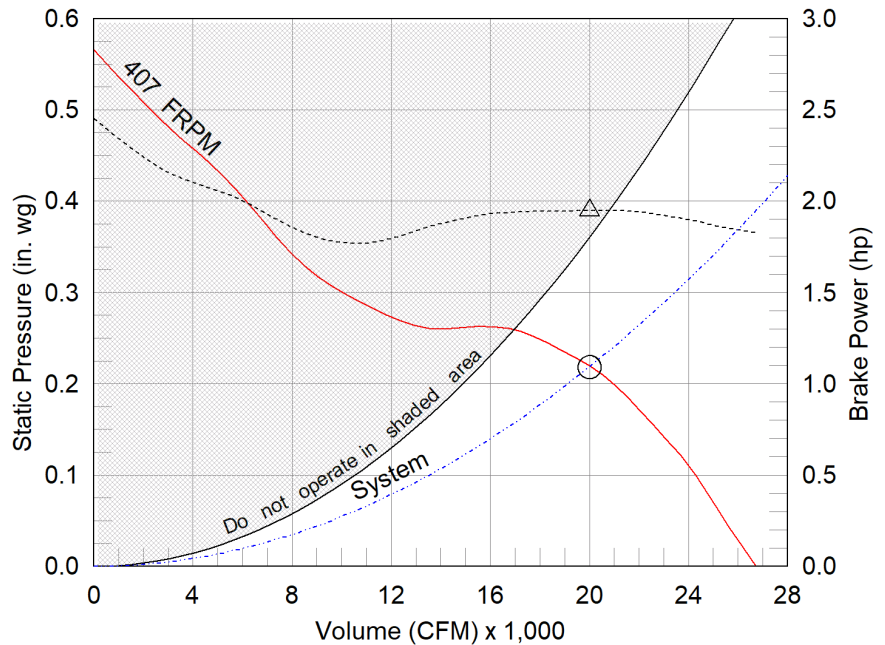
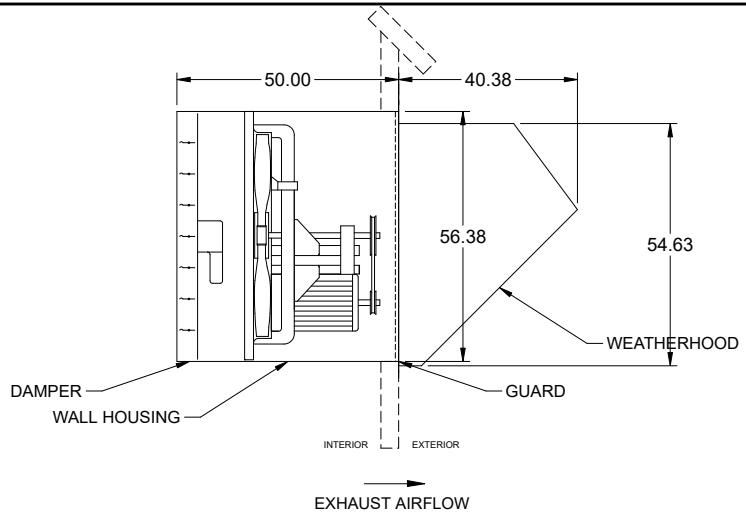
Sidewall Belt Drive Fan

Motor Access From Ext. of Bldg.

Dimensional	
Quantity	4
Weight w/o Acc's (lb)	302
Weight w/ Acc's (lb)	778
Max T Motor Frame Size	215
Optional Damper (in.)	50 x 50
Wall Opening (in.)	57.75 x 57.75

Performance	
Requested Volume (CFM)	20,000
Actual Volume (CFM)	20,000
Total External SP (in. wg)	0.218
Fan RPM	407
Operating Power (hp)	1.95
Elevation (ft)	341
Airstream Temp.(F)	70
Air Density (lb/ft3)	0.074
Drive Loss (%)	4.9
Tip Speed (ft/min)	5,111
Static Eff. (%)	37

Motor	
Motor Mounted	Yes
Size (hp)	3
Voltage/Cycle/Phase	208/60/3
Enclosure	TEFC
Motor RPM	1725
Efficiency Rating	NEMA Premium
Windings	1
NEC FLA* (Amps)	10.6



- △ Operating Bhp point
- Operating point at Total External SP
- Fan curve
- - - System curve
- Brake horsepower curve

Static Pressure Calculations

External SP	0.125 in. wg
Damper	0.047 in. wg
Wall Housing	0.046 in. wg
Total External SP	0.218 in. wg

Sound Power by Octave Band

Sound Data	62.5	125	250	500	1000	2000	4000	8000	LwA	dBA	Sones
Inlet	87	84	79	77	74	71	67	60	80	68	17.1

Notes:

All dimensions shown are in units of in.
*NEC FLA, MCA and MOP are for reference only – based on tables 430.248 or 430.25 of National Electric Code 2020. Actual motor FLA may vary, for sizing thermal overload, consult factory. MCA and MOP values shown only account for the motor, not accessories (damper actuator, field supplied VFD, etc).
LwA - A weighted sound power level, based on ANSI S1.4
dBA - A weighted sound pressure level, based on 11.5 dB attenuation per Octave band at 5 ft - dBA levels are not licensed by AMCA International
Sones - calculated using AMCA 301 at 5 ft
The motor provided on this fan is inverter ready and meets NEMA MG1 Part 31.4.4.2



Model: SBS-3L48-30

Sidewall Belt Drive Fan

Standard Construction Features:

- Galvanized steel fan panel - Die formed, galvanized steel drive frame assembly
- Fabricated steel propeller for Levels 1 and 2, welded and painted steel for Level 3
- Adjustable motor pulley - Ball bearing motors - Fan shaft mounted in ball bearing pillow blocks - Static resistant belts - Corrosion resistant fasteners

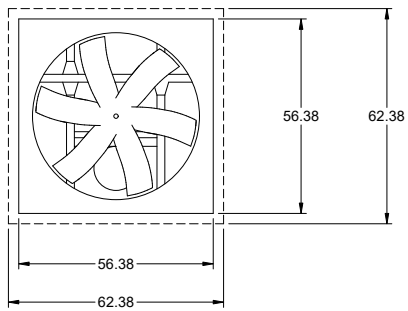
Selected Options & Accessories:

NEMA Premium Efficient Motor - meets NEMA Table 12-12
Motor VFD Rated without Shaft Grounding Protection
UL/cUL 705 Listed - "Power Ventilators"
Airflow Direction: Exhaust
Long Wall Hsg, Flush Exterior, w/ OSHA Grd.
Motor Access: From Ext. of Bldg.
Weatherhood, Aluminum 45 deg. with Bird Screen
Extended Bearing Lube Lines
Bearings with Grease Fittings
One Point Wiring
Unit Warranty: 1 Yr (Standard)
Damper Mounted, VCD-23-PB-50X50, Not Coated
Damper Actuator (AFBUP), 208 VAC Actuated w/ 115 VAC Transformer

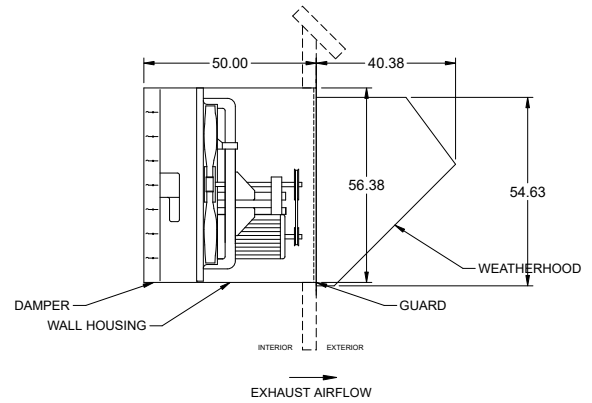
Assembly Drawing

Type: Sidewall Belt Drive Fan

DRAWING VIEWED FROM INTERIOR



END VIEW DIMENSIONS ARE FOR HOUSING NOT FAN PANEL
WALL OPENING 57.75 SQ.
MOTOR IS ACCESSIBLE FROM EXTERIOR OF BUILDING
THIS IS AN EXHAUST FAN DUE TO MOTOR ORIENTATION

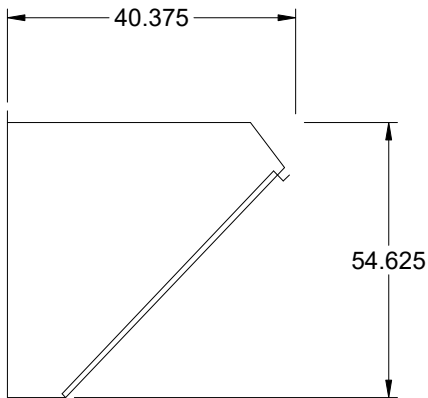


Notes: All dimensions shown are in units of in..

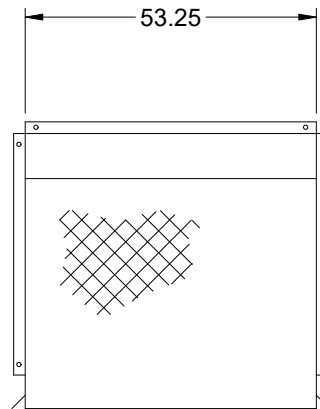
45 Degree Weatherhood

Standard Construction Features:

Galvanized Steel or aluminum construction. 0.5 welded wire birdscreen. Prepunched mounting holes. Field assembled.



SIDE VIEW

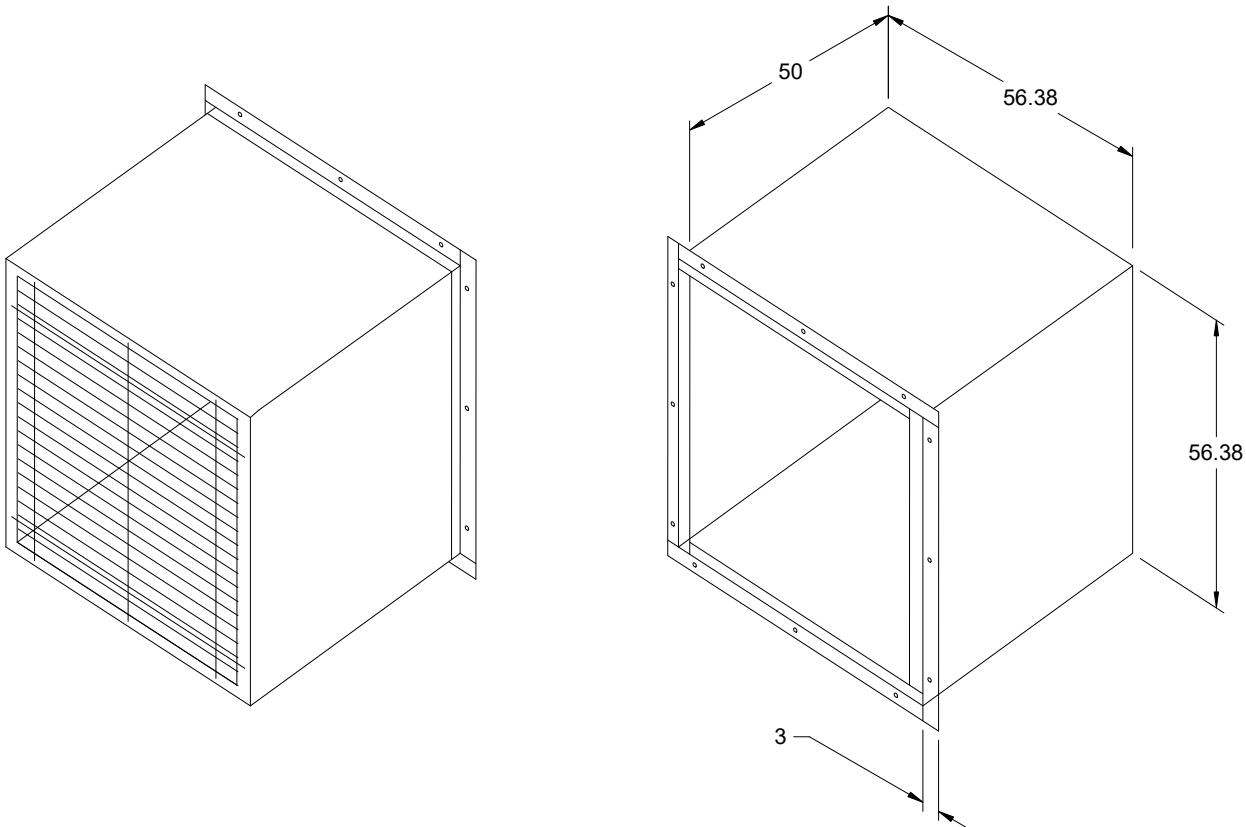


ELEVATION VIEW

Long Wall Housing

Standard Construction Features:

- Galvanized steel construction - Heavy gauge mounting flanges - Pre-punched mounting holes - Inside flanges allow damper to be mounted - Overlapping weatherhood flange keeps rain out - OSHA Protective guard of welded steel wire completely protects the drive side of the wall housing.



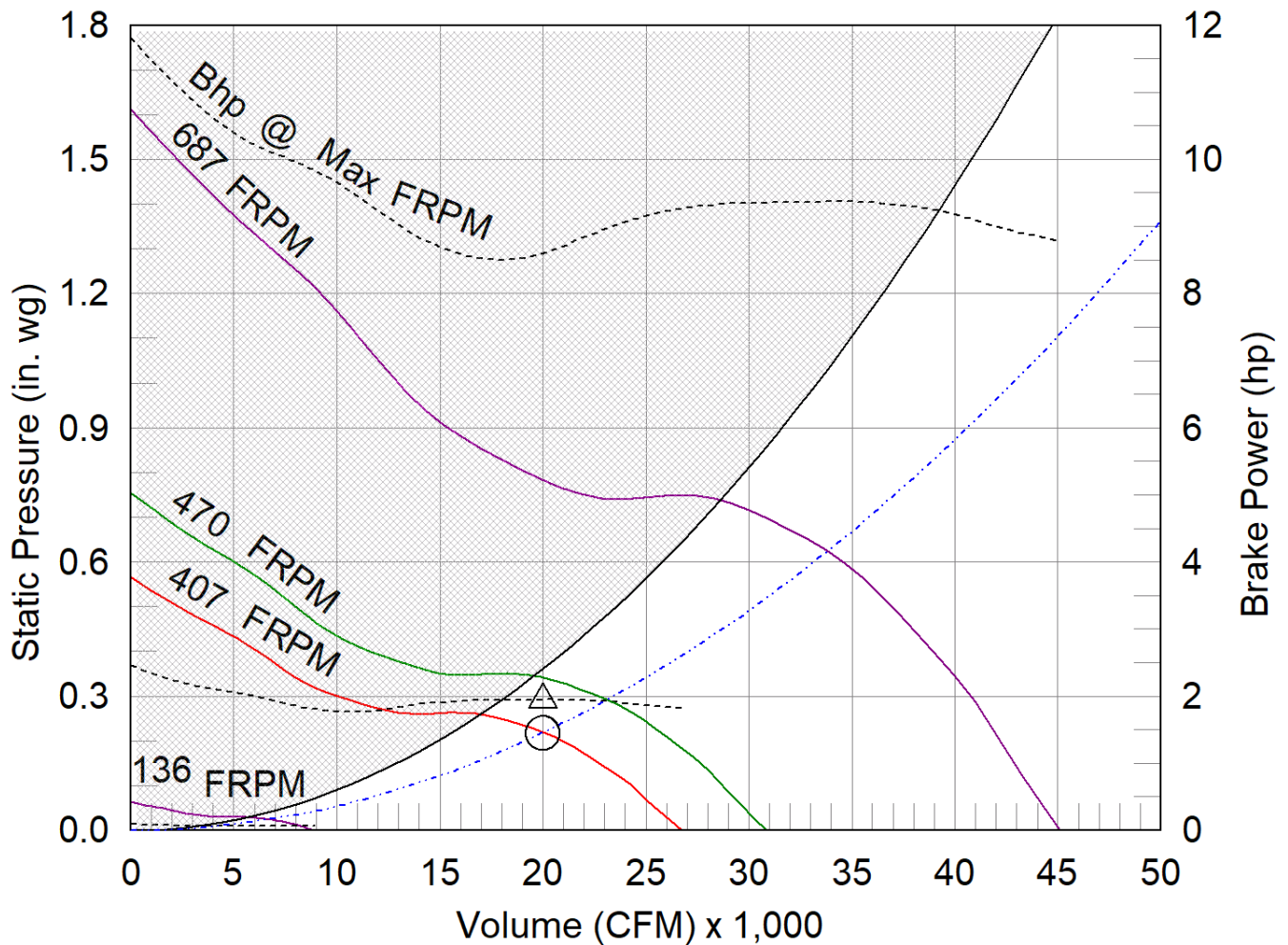
Notes: All dimensions shown are in units of in.

SBS-3L48-30

Min/Max Fan Curve

Performance

Requested Volume (CFM)	Actual Volume (CFM)	Total External SP (in. wg)	Fan RPM	Operating Power (hp)
20,000	20,000	0.218	407	1.95



- △ Operating Bhp point
- Operating point at Total External SP
- Fan curve
- System curve
- Brake horsepower curve

ESD-635 6 in. Frame, 35 deg Blade

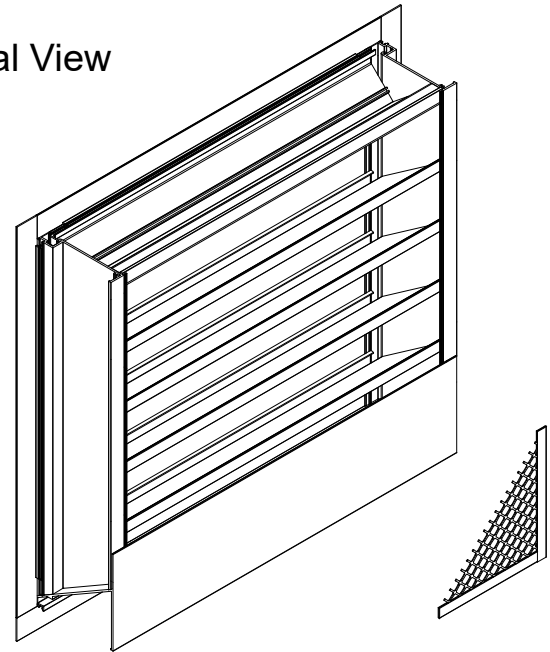
APPLICATION & DESIGN

ESD-635 is a weather louver designed to protect air intake and exhaust openings in building exterior walls. Design incorporates drain gutters in the head member and horizontal blades to channel water to the jambs where water is further channeled through vertical downspouts and out at the sloped sill. The ESD-635 is an extremely efficient louver with AMCA LICENSED PERFORMANCE DATA enabling designers to select and apply with confidence.

PRODUCT DETAILS

Frame:	6 in. x 0.081 in. Frame Thickness
Frame Type:	Flanged, 1.5 in., Exterior
Blades:	0.081 in. Fixed Blade Thickness
Material:	Aluminum
Sizing:	Nominal
Shape:	Rectangular
Construction:	Mechanically Fastened

Internal View



Width and Height furnished approximately 0.25 under size.

OPTIONS & ACCESSORIES

Finish:	Mill
Bird Screen:	0.75 in. x 0.05 in., Flat Expanded Aluminum, Internal, Mill Finish
Union Label:	No Preference
Warranty:	1 year Standard Product Warranty

SUMMARY

ID #	TAG	QTY.	W (in.)	H (in.)	FREE AREA (ft ²)	FREE AREA (%)	SECT. WIDE	SECT. HIGH	SHIP SECT.
4-1		4	108	84	40.12	63.7	1	1	4

PERFORMANCE

ID #	TAG	APPLICATION	VOLUME (CFM)	PRESSURE DROP (in. wg)	FREE AREA VELOCITY (ft/min)	BPWP (ft/min)
4-1		Intake	20,000	0.04	495	1,250

**Calculated pressure drop does not include the effects of screens, filters or other accessories

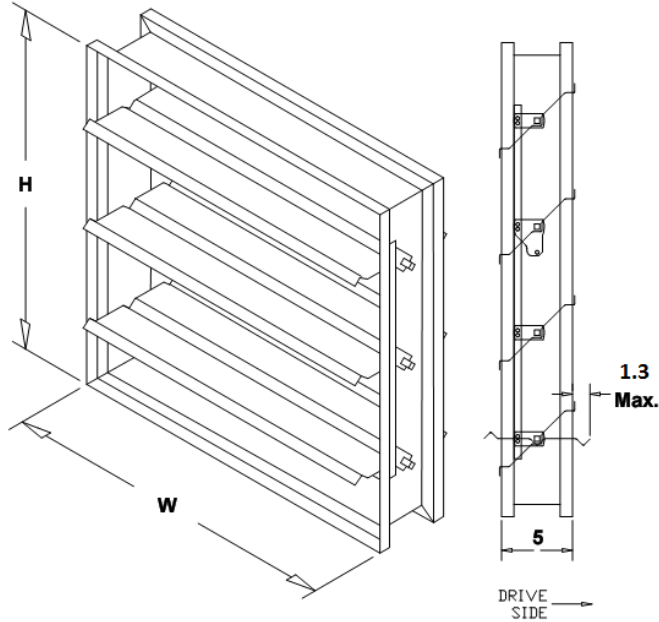
Total Louver Qty:	4	Total Weight (lb):	990	Louver Area (ft²):	252
Total Ship Sect.:	4				

**Weight shown is an estimate only based on the default base product configuration without options or accessories.

Larger openings may require field assembly of multiple louver panels to make up the overall opening size. Individual louver panels are designed to withstand windloads up to a maximum of 25 PSF (size and configuration dependent). Design, materials and installation of structural reinforcement required to adequately support large sections or multiple section assemblies within a large opening are not provided by Greenheck. Options and accessories including, but not limited to, screens, filter racks, louver doors, and blankoff panels are not subject to structural analysis unless indicated otherwise by Greenheck. Unless specifically indicated, the following are NOT included in the quote provided: structural steel, installation hardware (anchors, angle clips, continuous angles, shims, fasteners, inserts, backer rod and sealant), field measuring and/or installation, miscellaneous flashing, trim or enclosures, blank off panels, mullion covers or mullion hardware, hinged frames or removable subframes, custom bird/insect screen, 3-coat, metallic and/or exotic paint finishes, bituminous paints for unlike metals, any applicable taxes, stamped and sealed structural calculations seismic calculations or job specific engineered submittal drawings.

Control Damper

Model: VCD-23



Standard Construction Features:

- Model VCD-23 is a well built low leakage control damper for automatic control or manual balancing applications
- Galvanized 16 ga channel frame
- Galvanized blades with reinforcements
- Side mounted steel linkage is concealed in the frame to prevent additional pressure drop
- Axles are steel and 0.5 in. dia.
- Synthetic axle bearings
- Width and height furnished approximately 0.25 in. undersized
- Field wiring is required to individual components

Damper Configuration:

ID #:	Tag:	Quantity:	W (in.):	H (in.):	Act Qty:	Actuator Model:
6	EF-1,2,3,4	4	50	50	1	AFBUP

Notes: All dimensions shown are in units of in.
Width And height furnished approximately 0.25 in. undersize

Louvers Mill Aluminum Finish

Aluminum in the mill finish state will be commercially smooth and substantially free from blisters, inclusions, voids, slivers and kinks. Slight discontinuity resulting from flow and die lines inherent in the extrusion process will exist. Occasional discontinuities that can be reasonably removed making the surface suitable for finishing operations are acceptable. Although aluminum is naturally resistant to corrosion, its appearance changes as a result of weathering and aging. Aluminum in the mill finish state may also have a non-uniform surface appearance resulting from oil, heat and oxide discoloration inherent in the manufacturing process.

LEACHATE STORAGE TANK

HighGuard Underground Steel Storage Tanks

Superior Tanks for a Tough Environment

HT-1089



Highland Tank®



A 75 mil (min) coating
is applied to the steel
grit-blasted tank surface

UL-Listed Steel
Primary Tank 10
gauge to .375"
thick



The HighGuard Tank features a strong dielectric coating of high solids polyurethane for protection, even under the most difficult conditions. HighGuard resists surface damage due to impact or abrasion that may occur during transportation, rigging and installation.

In fact, HighGuard underground storage tanks are so tough they require no cathodic protection or expensive corrosion monitoring. They out-perform fiberglass-reinforced polyester (FRP) clad tanks and do not require any artificial reinforcement.

HighGuard is superior in strength and rugged in appearance. After manufacturing and rigorous testing, the tank's exterior surfaces are commercially blasted with steel grit in preparation for coating.

The HighGuard protective coating is a dense, solvent-free, tar-free, two-component polyurethane coating system with high impact properties and tensile strength.

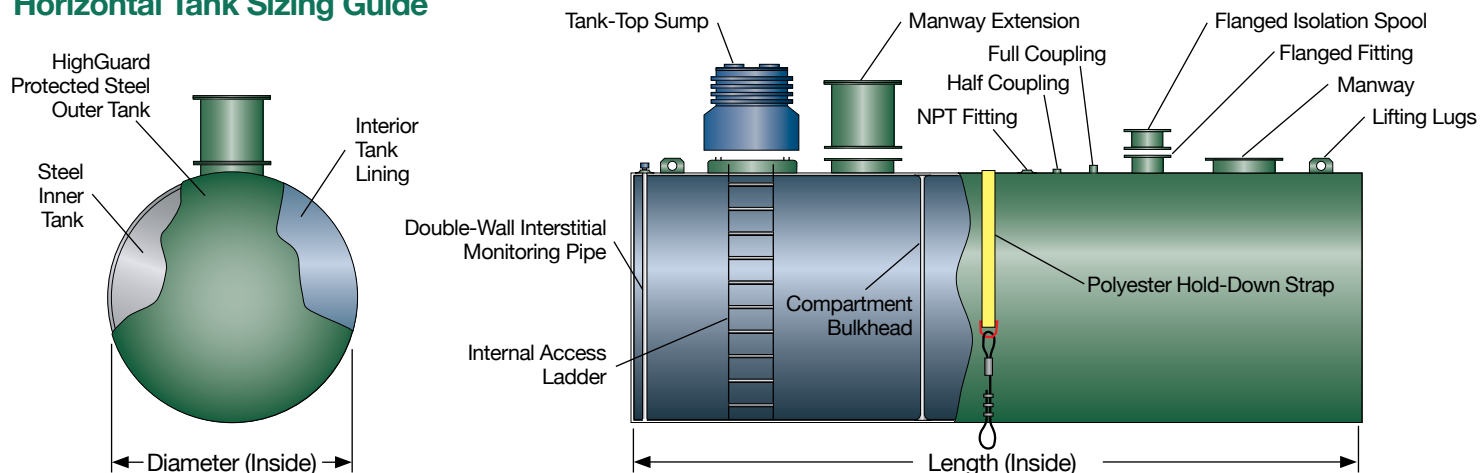
The coating is spray-applied with special equipment that ensures an even application of 75 mils over the entire surface of the tank.

The finished tank is quality checked by a 15,000-volt spark test to ensure coating integrity and effective corrosion protection that can be measured in decades, rather than years.

Unmatched Quality & Service



Horizontal Tank Sizing Guide



HighGuard Features

- UL-58 and UL-1746 compliant
- Provides 75 mils dielectric polyurethane protection
- Cured films are free of pores
- Must pass a 15,000 volt spark test before shipment
- Strong, flexible and resistant to impact, abrasion and corrosion
- No cathodic protection monitoring required
- Highland standard 10-year limited warranty
- Highland 30-year limited warranty is available

Flexible Designs

- Volumes from 240-50,000 gallons
- Custom sizes
- Multi-product storage compartments

Product Compatible

- Alternate fuel compatible without the additional cost of internal linings
- Safe storage for all motor fuels and biofuels, including biodiesel and ethanol blends

Environmentally Friendly

- Most environmentally-friendly coating on the market
- Uses no hazardous materials in production
- Can be disposed of as a non-hazardous material – steel tanks are 100% recyclable

Cost Effective

- On a total installed-cost basis, HighGuard's cost is less than any other unmonitored tank configuration on the market today
- No job site spark or air test required
- Lightweight construction for lower shipping and handling costs

Volume Gallons	Tank Dimensions	
	Diameter	Length
240	3'-2"	4'-0"
300	3'-2"	5'-0"
500	4'-0"	5'-5"
1,000	4'-0"	10'-9"
1,000	5'-4"	6'-0"
1,500	5'-4"	9'-0"
2,000	5'-4"	12'-0"
2,500	5'-4"	15'-0"
3,000	5'-4"	18'-0"
4,000	5'-4"	24'-0"
4,000	6'-0"	19'-0"
4,000	8'-0"	10'-8"
5,000	6'-0"	23'-10"
5,000	8'-0"	13'-4"
6,000	6'-0"	28'-8"
6,000	8'-0"	16'-0"
8,000	10'-0"	14'-0"
8,000	8'-0"	21'-4"
10,000	10'-0"	17'-0"
10,000	8'-0"	26'-8"
12,000	10'-0"	20'-6"
12,000	8'-0"	32'-0"
15,000	10'-0"	25'-6"
15,000	8'-0"	40'-0"
20,000	10'-0"	34'-0"
20,000	10'-6"	31'-0"
25,000	10'-0"	42'-6"
25,000	10'-6"	38'-9"
30,000	10'-0"	51'-2"
30,000	10'-6"	46'-6"
40,000	12'-0"	47'-6"
50,000	12'-0"	59'-6"



Please visit us at www.highlandtank.com

One Highland Road
Stoystown, PA 15563
P: 814-893-5701
F: 814-893-6126

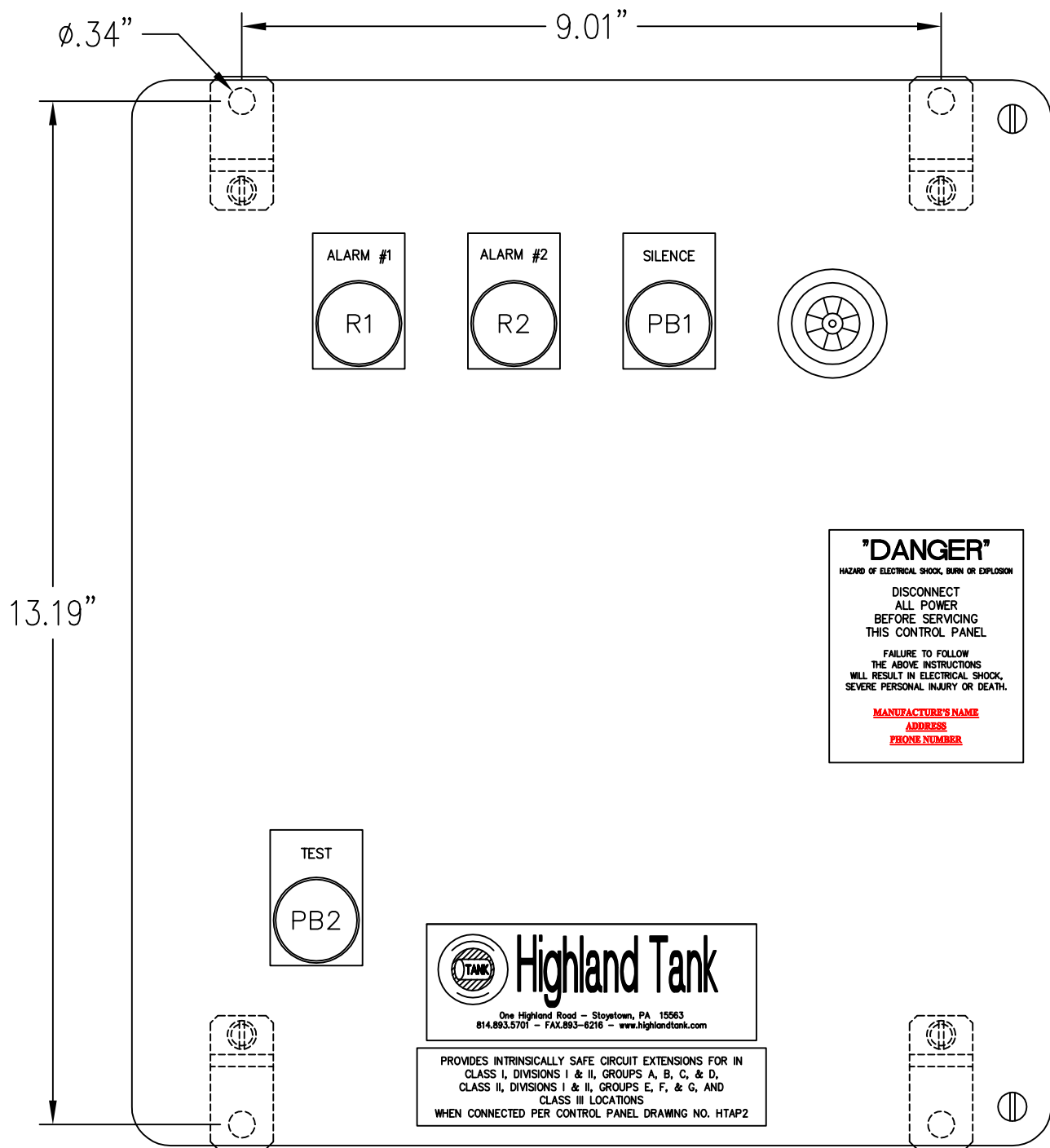
4535 Elizabethtown Road
Manheim, PA 17545
P: 717-664-0600
F: 717-664-0617

958 19th Street
Watervliet, NY 12189
P: 518-273-0801
F: 518-273-1365

2700 Patterson Street
Greensboro, NC 27407
P: 336-218-0801
F: 336-218-1292

2225 Chestnut Street
Lebanon, PA 17042
P: 717-664-0602
F: 717-664-0631

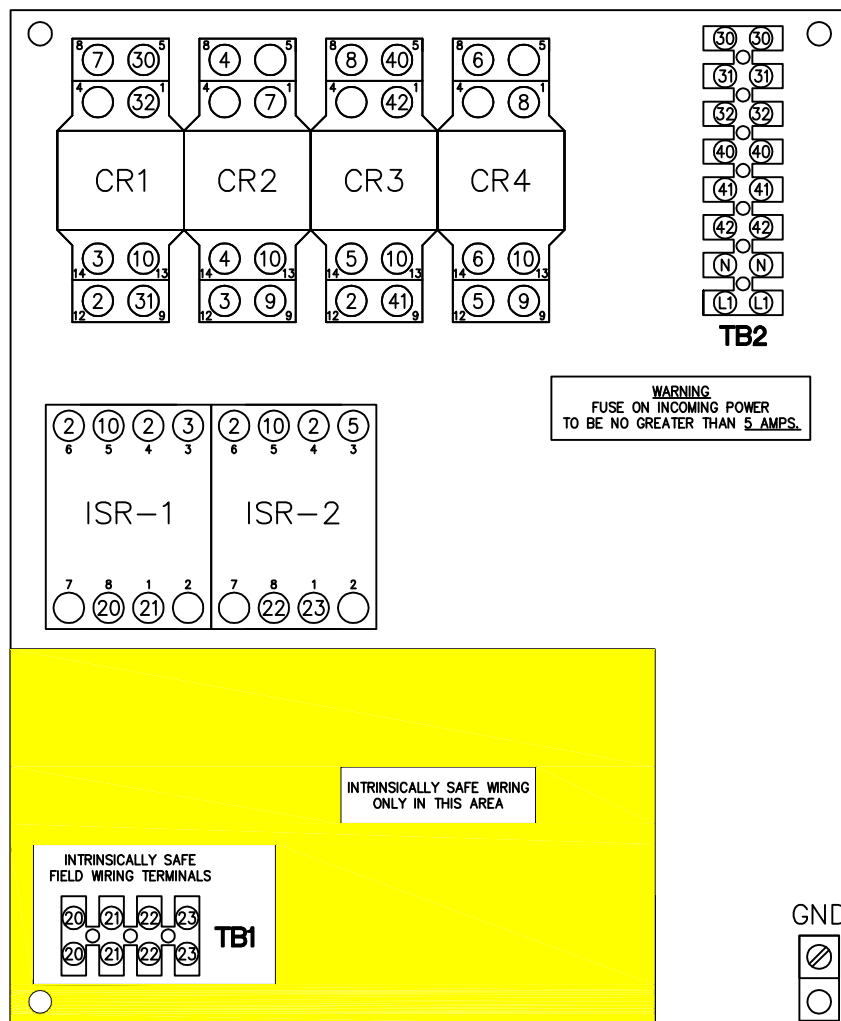
1510 Stoystown Road
Friedens, PA 15541
P: 814-443-6800
F: 814-444-8662



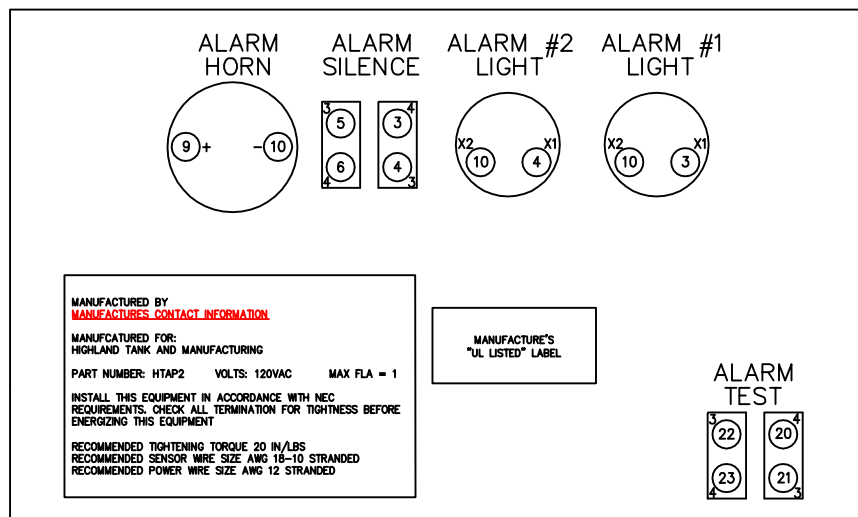
ENCLOSURE (12"x 10"x 6") NEMA 4X FIBERGLASS



Highland Tank®	
TWO CHANNEL ALARM PANEL WITH LIGHTS, HORN, SILENCE CIRCUIT & AUX. CONTACTS	
CUSTOMER:	
PROJECT:	
QUOTE NO:	CHK'D BY:
SCALE: NTS	DATE:
DWG. BY:	DWG. NO:
HTAP2-1	



PANEL INTERIOR



REAR VIEW OF ENCLOSURE DOOR

		Highland Tank®	
TWO CHANNEL ALARM PANEL WITH LIGHTS, HORN, SILENCE CIRCUIT & AUX. CONTACTS			
CUSTOMER:			
PROJECT:			
QUOTE NO:		CHK'D BY:	
SCALE:	DATE:	DWG. BY:	DWG. NO:
NTS			HTAP2-3



MANUFACTURED IN ACCORDANCE TO
UL 698A STANDARDS

LEGEND

8
(20)

PANEL COMPONENT TERMINAL NO.
TERMINATED WIRE NO.

BILL OF MATERIALS

QUANTITY	PART NUMBER	DESCRIPTION
----------	-------------	-------------

CUTLER HAMMER

2	M22-D-S-K20	Pushbutton Assembly, Flush, Black, 2-N.O.
2	C22-L-R230R	Pilot Light Assembly, Red LED

IDEC

4	RH2B-UL-AC120	Relay, DPDT, 120 VAC Coil, with LED
4	SH2B-05	Relay Base, RH Series, DPDT

ALLIED MOULDED PRODUCTS

1	AM1206H	Single Door Wall Mount Enclosure with Painted Steel Back Panel NEMA 4X, Fiberglass, Size: 12" x 10" x 6" (HWD)
---	---------	---

AC/DC EQUIPMENT

1	MC-09-201-QG	Alarm Horn, 120 VAC, NEMA 4X with Gasket
---	--------------	--

SYMCOM

2	ISS-101	Intrinsically Safe Relay with Socket (OT08-PC)
---	---------	--

WECO

1	323-HDS/12	Terminal Block, 12-Pole, Cut to Suit
1	BST-323/12	Terminal Marking Strip, 12-Pole, Cut to Suit



MANUFACTURED IN ACCORDANCE TO
UL 698A STANDARDS



Highland Tank®

TWO CHANNEL ALARM PANEL WITH LIGHTS,
HORN, SILENCE CIRCUIT & AUX. CONTACTS

CUSTOMER:

PROJECT:

QUOTE NO:

CHK'D BY:

SCALE:
NTS

DATE:

DWG. BY:

DWG. NO:

HTAP2-4

HTAP 2 Alarm Panel Wiring Instructions:

Terminal Block Two (TB2):

Incoming 120V 60Hz 1Phase Power

Neutral (White) Wire to “N”- Neutral Terminal
Hot (Black) Wire to “L1”- Line Voltage Terminal
Ground Wire to “G”- Ground Lug

Auxiliary Contacts (Form “C” Dry Contacts):

Rated at: 10A at 28VDC, 10A at 120VAC

Auxiliary Contacts can be utilized for relaying an alarm signal, for example, to a remote alarm panel.

Channel One (Corresponding to Alarm Circuit Terminals “20” and “21”):

Terminals “30” and “31” are Dry (Un-Powered) Contacts – Normally Open (Close on Alarm)

Terminals “31” and “32” are Dry (Un-Powered) Contacts – Normally Closed (Open on Alarm)

Channel Two (Corresponding to Alarm Circuit Terminals “22” and “23”):

Terminals “40” and “41” are Dry (Un-Powered) Contacts – Normally Open (Close on Alarm)

Terminals “41” and “42” are Dry (Un-Powered) Contacts – Normally Closed (Open on Alarm)

Terminal Block One (TB1):

Depending on the type of sensor(s) supplied for this alarm panel system, wire as follows:

Two Float Level Sensor (Standard Sensor) Model: HTF

Top Float: (2) YELLOW Leads From Level Sensor To “20” and “21” Terminals

Bottom Float: (2) RED Leads From Level Sensor To “22” and “23” Terminals

Single Float Level Sensor (Standard Sensor) Model: HTF and Leak Sensor Model: HTLP

Single Float: (2) RED Leads From Level Sensor To “20” and “21” Terminals

Leak Sensor: RED and BLACK Leads From Leak Sensor To “22” and “23” Terminals

Two Float Level Sensor (Suspended Sensor) Model: HTSF

Top Float: GREEN and WHITE Leads From Level Sensor To “20” and “21” Terminals

Bottom Float: RED and BLACK Leads From Level Sensor To “22” and “23” Terminals

Single Float Level Sensor (Suspended Sensor) Model: HSTF and Leak Sensor Model: HTLP

Single Float: RED and BLACK Leads From Level Sensor To “20” and “21” Terminals

Leak Sensor: RED and BLACK Leads From Leak Sensor To “22” and “23” Terminals

Notes:

1. For operational clarity, identify and label the alarm light signals (on the front of the panel enclosure) with the corresponding sensor. For Example, High Fluid Level, High-High Fluid Level, Low Fluid Level, Low-Low Fluid Level, High Oil Interface, High-High Oil Interface, Leak.). Reference the Highland Tank Submittal Drawing for More Details.
2. Float Sensor Typical Usages are:
 - “A” Float -- High Fluid Level
 - “B” Float -- Low Fluid Level
 - “E” Float – High Oil Interface Level – Interface floats are weighted to float in water, but sink in oil
3. **Oil Water Separator Application:** Oil accumulates on top of the water and displaces the water in a downward direction towards the bottom of the vessel; therefore, the top float is the High Oil Interface Float and the Bottom Float is the High-High Oil Interface Float
4. **Oil Water Separator Application: The Interface Level Alarm(s) will sound when the unit is empty. Fill with clean water before activating alarm system.**

Warning: Installation and Servicing of electrical equipment should only be completed by qualified personnel who are familiar with local codes and standard safety procedures.

Read and understand all instructions before attempting to install or service any electrical equipment.

Follow all jurisdictional safety regulations when working on electrical equipment.

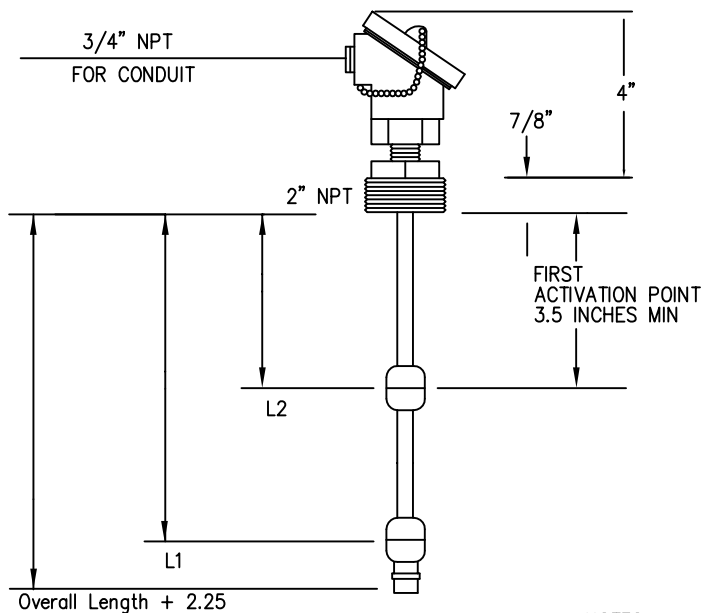
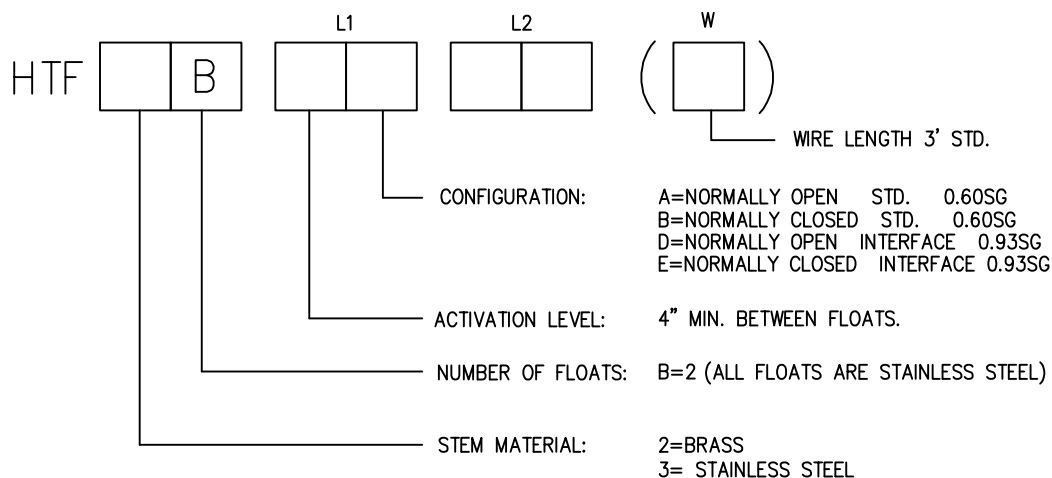
Series HTF Standard Two Float Sensor



Highland Tank

Engineering Bulletin

One Highland Road, Stoystown Pa.15563
814-893-5701 - Fax 893-6126
www.Highlandtank.com
email: staff @ highlandtank.com



SPECIFICATIONS:

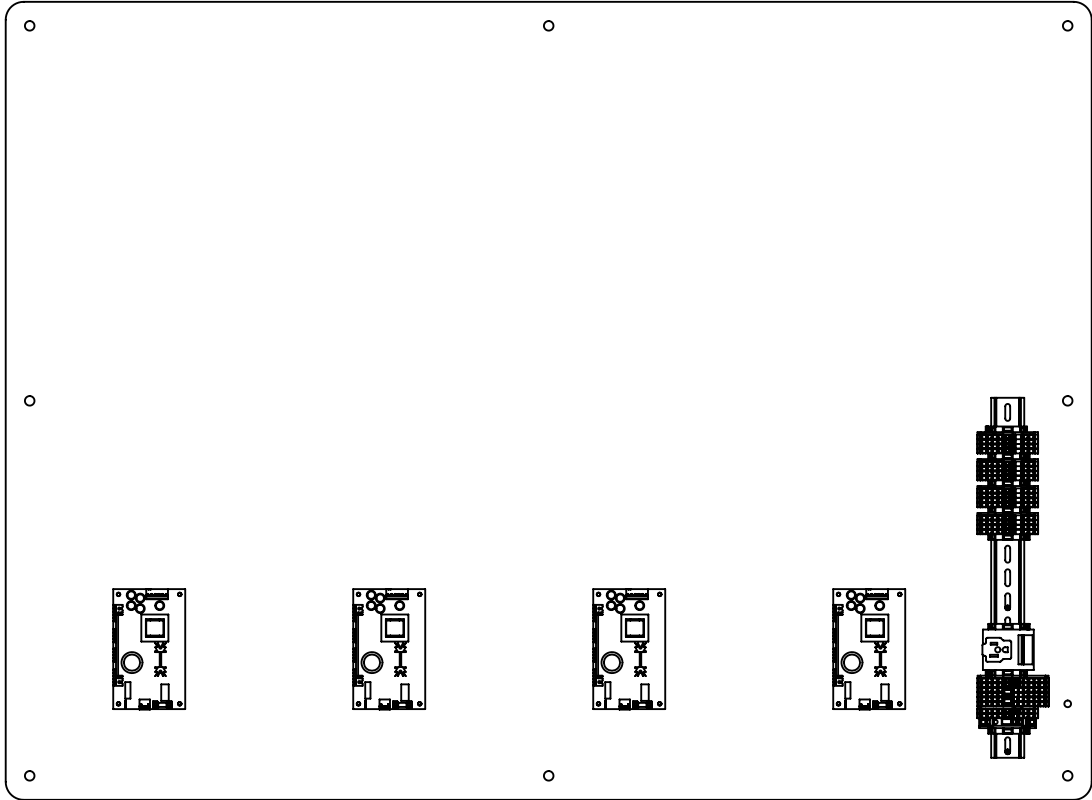
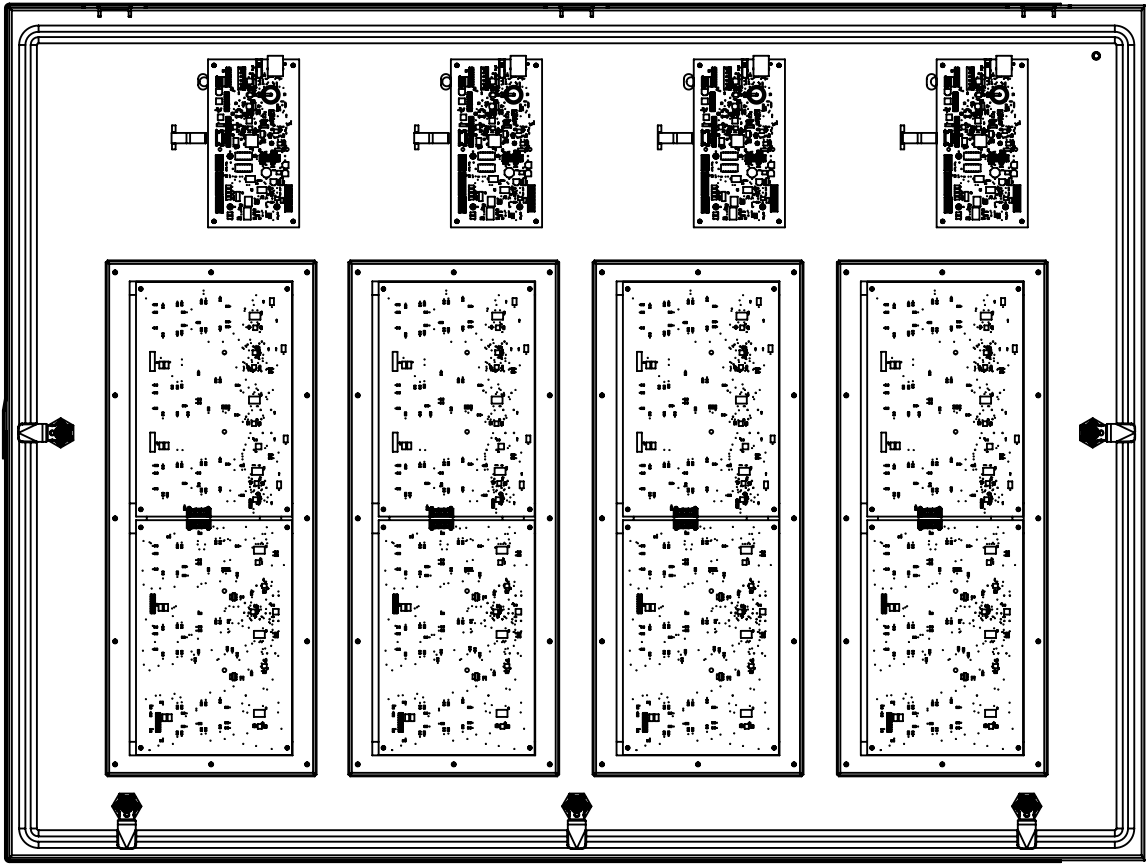
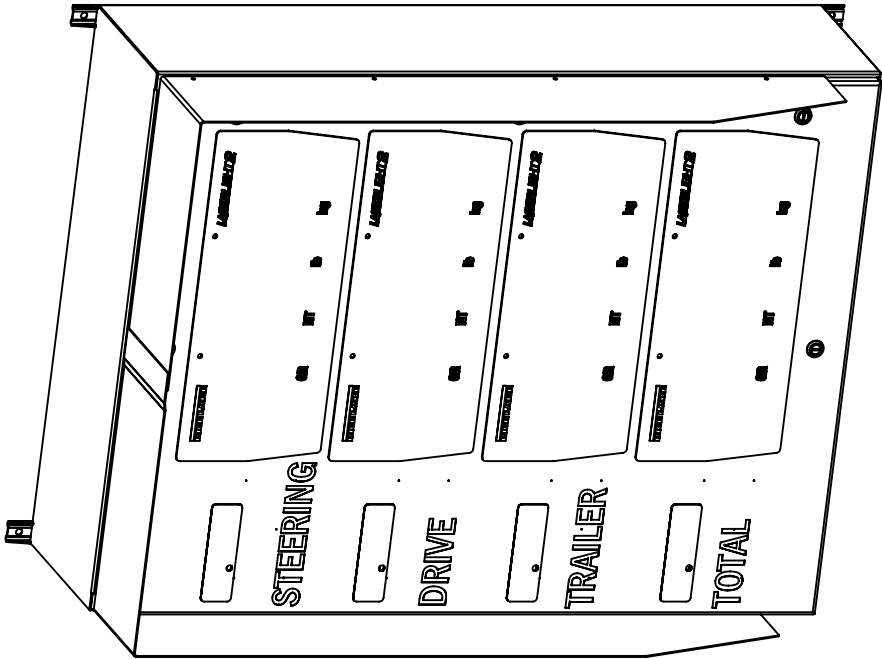
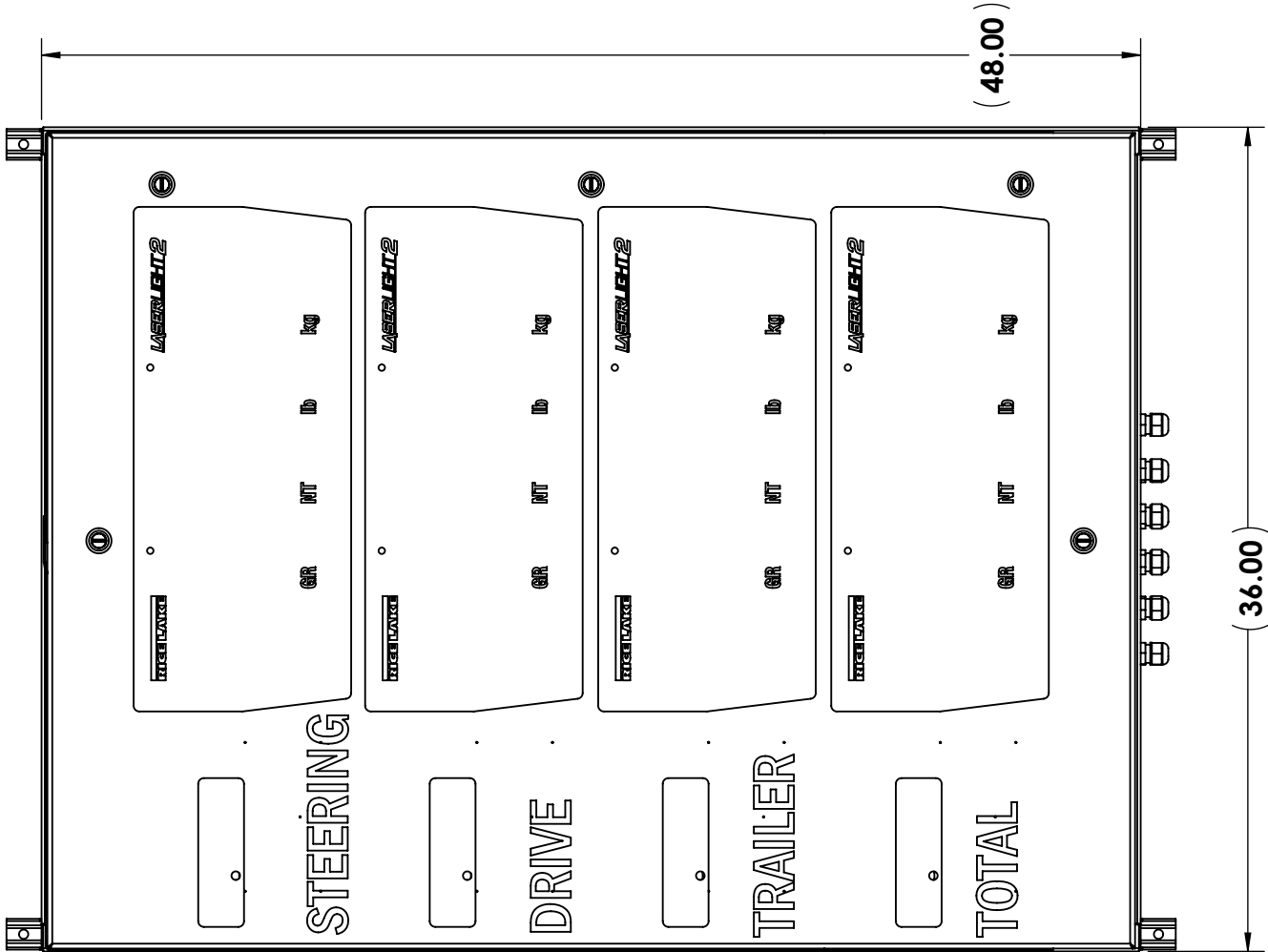
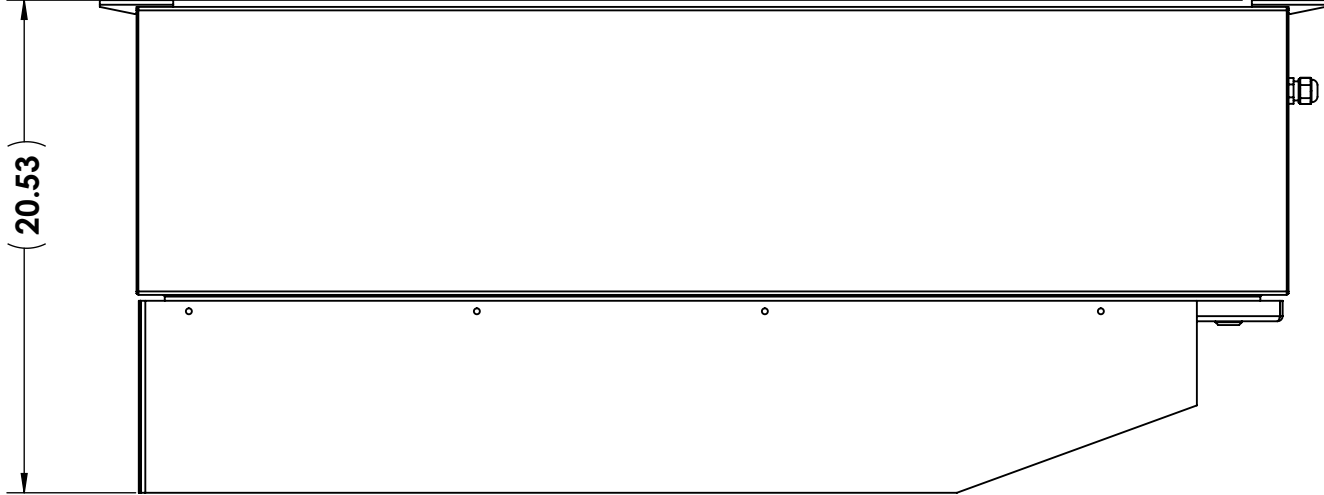
HOUSING:	CAST ALUMINUM NEMA 4X
FITTING:	BRASS OR STAINLESS STEEL
THREAD SIZE* :	2" NPT
FLOAT SIZE:	1.85" DIA x 3.01" HIGH
CONTACT RATING:	FOR INTRINSICALLY SAFE CONTROL CIRCUIT ONLY
STEM SIZE:	1/2"
SPECIFIC GRAVITY:	0.6 STANDARD 0.93 INTERFACE
WIRE COLOR CODE FOR 10' OR LESS :	L1=RED L2=YELLOW
WIRE COLOR CODE FOR GREATER THAN 10' :	L1 = RED & BLACK L2 = GREEN & WHITE

NOTES:

- 1) FOR TOTAL LENGTHS OVER 8 FEET, CONTACT HIGHLAND TANK
- 2) ACTIVATION LEVEL TOLERANCE +/- .125"
- 3) CONSULT FACTORY FOR OPTIONAL MOUNTING OPTIONS

LOADOUT TUNNEL SCALE

REVISION				INIT		DATE	
REV	ECO	DESCRIPTION		MWE		05/30/2019	
A	-	ENGINEERING RELEASE					



NOTES:
1. BREAK SHARP EDGES.

DESIGNED BY / DATE		DRAWN BY / DATE		FEEB APPROVAL / DATE	
M. EKENSTEDT 05/30/2019		M. EKENSTEDT 05/30/2019		M. EKENSTEDT 05/30/2019	
TREATMENT		THIS DRAWING AND INFORMATION CONTAINED HEREIN, IS AND REMAINS THE PROPERTY OF RICE LAKE WEIGHING SYSTEMS, INC. HEREINAFTER REFERRED TO AS "RICE LAKE". IT IS TO BE USED ONLY FOR THE PURPOSES SPECIFIED IN THE "RICE LAKE" RUMS' PROPOSAL AND FOR ITS CUSTOMER'S ORDERS. IT SHALL NOT BE DISCLOSED OR COPIED WITHOUT RUMS SPECIFIC WRITTEN CONSENT AND SHALL BE IMMEDIATELY RETURNED UPON REQUEST.		UNLESS OTHERWISE SPECIFIED UNITS TO BE INCHES 2 ALL THREADS TO BE CLASS 2 AFTER TREATMENT	
NONE		DO NOT SCALE DRAWING SURFACE FINISH ✓		DESCRIPTION KIOSK, CUSTOM	
NUMBER OF CRANES: MINIMUM CRANE CAPACITY: ESTIMATED WEIGHT (POUNDS)		TOLERANCES DRAWING TOLERANCES UNLESS OTHERWISE SPECIFIED .XX: ±.03 .XXX: ±.010 ANGLE: ±1°		SCALE 1:8 1 OF 1	
56.29		MATERIAL SEE BOM		THIRD ANGLE PROJECTION P/N	
				REV A	

RICE LAKE
WEIGHING SYSTEMS

LASERLIGHT 2

REMOTE DISPLAY



*Shown with flange mount
and radio option.*

RICE LAKE®
WEIGHING SYSTEMS

800-472-6703
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LASERLIGHT2

REMOTE DISPLAY

Bright and Vivid Display, Even in Direct Sunlight

Prominently display weight, numeric data and messages with the LaserLight2 remote display. A super-bright LED display with non-glare lens provides sharp seven-segment, six-digit characters that are easy to read. Never lose visibility in dark conditions or experience wash-out in direct sunlight. Simply power up a LaserLight2 remote display in your application and the benefits are clearly visible.



A redesigned enclosure provides easy access to internal components. The front panel swings open for convenient setup and service, yet

is securely held in place. The weather-tight, IP66 rated enclosure provides superior protection for worry-free daily use. The external keypad makes navigating configuration options safe and easy with up, down, left and

right arrow keys as well as Enter, Setup, Mode, Set and Learn buttons.

Available in four-inch or six-inch character sizes, LaserLight2 remote displays include annunciators for gross, net, pounds, and kilograms. For added convenience, time and date is also included.

To simplify installation and make retrofitting an attractive option, Auto Learn mode identifies communication formats and data rates used by existing weight indicators. Use LaserLight2 with virtually any weight indicator and you'll experience a seamless installation every time.

Mounting options include a flange tab which accommodates 1/4-inch hardware for vertical surface or pole mounting, or VESA mounting bracket for increased versatility. With the VESA mount, a wide variety of readily available mounting options are compatible with the LaserLight2.



The LaserLight2 remote display—providing crisp, accurate weight readings in any condition to ensure your process is always in clear view.

Standard Features

- Six high-intensity red digits (double-row discrete LED)
- Auto Learn mode of communication protocols
- Hold displayed weight (demand input)
- Software selectable standstill mode for no updates while in motion
- Mirror (reverse image) feature, auto mode
- Durable weather-tight IP66 enclosure
- Adjustable daylight/night intensity
- Non-glare contrast filtered lens
- RS-232, 20 mA, and RS-485 communications
- Auto sensing 115/230 VAC power supply
- PEMs locations accommodate flange or VESA mounting brackets
- Polyethylene breather vent inhibits internal moisture buildup
- Red, green and arrow lights in Stop/Go model

Options

- Pole mount bracket
- Fiber-optic interface
- Radio interface
- cUL versions available
- Stainless steel enclosure
- Display visor

Specifications

Display:	6-digit, 7-segment discrete oval precision optical performance red LED lamps Contrast enhanced optical filtering lens 1- or 2- place decimal or comma indication 4 annunciators for GR, NT, lb, kg 4-inch red, green ball/arrow in Stop/Go model
Maximum Viewing Distance:	4-inch: 200ft (60m) 6-inch: 300ft (100m)
Input Interface:	RS-232, RS-485, 20 mA current loop (active or passive, switch selectable)
Output interface:	Independently configurable echo out port, RS-232
Input Data Format:	Baud Rate: 1200, 2400, 4800, 9600 and 19,200 self-learning or software selectable
Character Format:	7 or 8 data bits; even, odd, or no parity; 1 or 2 stop bits, self-learning or software selectable
Update:	Continuous or out-of-motion only; software selectable
Power Consumption:	4-inch: 21 watt 6-inch: 27 watt
Time:	Software enable/disable, 12- or 24-hour format
Date:	Software enable/disable, US or ISO format
Rating/Material:	IP66 Weather tight, mild steel, black powder coated
Dimensions:	4-inch (L x H): 22.28in x 9.8in 6-inch (L x H): 30.63in x 12.77in Stop/Go (L x H): 30.63in x 12.77in (flanges add 3.16 inches in width)
Weight:	4-inch: 20lb (9kg) 6-inch and Stop/Go: 25lb (11kg)
Operating Temperature Range:	-40°F to 120°F (-40°C to 49°C)
Warranty:	Two-year limited warranty

Your Rice Lake Weighing Systems distributor is:

RICE LAKE
WEIGHING SYSTEMS

230 W. Coleman St. • Rice Lake, WI 54868 • USA
TEL: 715-234-9171 • FAX: 715-234-6967 • www.ricelake.com

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Specifications subject to change without notice.

LaserLight2™

Four-inch or Six-inch, Four-inch Stop/Go Remote Display



Standard Features

- Available with a 4-in or 6-in display
- Six high-intensity red digits (double-row discrete LED)
- Time and date displayed when scale is empty
- Auto Learn mode of communication protocols
- Hold displayed weight (demand input)
- Software selectable standstill mode for no updates while in motion
- Durable weathertight IP66 enclosure
- Adjustable daylight/night intensity
- Non-glare contrast filtered lens
- Mirror (reverse image) function
- RS-232, 20 mA and RS-485 communications
- Auto sensing 115/230 VAC power supply
- PEMs for VESA flat-wall mount or side-mounting flange
- Polyethylene breather vent inhibits internal moisture buildup
- Red, green and arrow lights in stop/go version

APPROVALS*



*See Specific Part Numbers

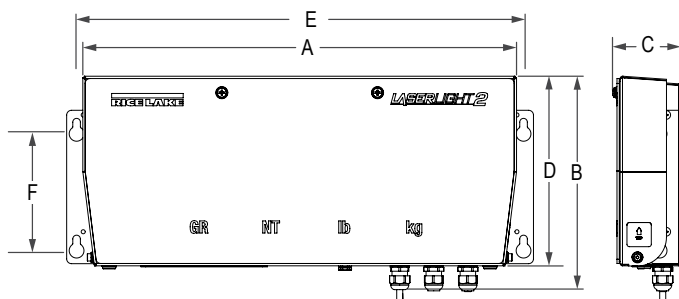
Dimensions

22-inch Enclosure (Four-inch Model)

A	22.28 in (565 mm)	D	9.80 in (250 mm)
B	10.96 in (280 mm)	E	23.00 in (584 mm)
C	3.28 in (85 mm)	F	6.00 in (152 mm) 3/8 in bolt

31-inch Enclosure (Six-inch and Stop/Go Models)

A	30.63 in (780 mm)	D	12.77 in (325 mm)
B	13.94 in (355 mm)	E	31.00 in (787 mm)
C	3.73 in (95 mm)	F	7.75 in (197 mm) 3/8 in bolt



Specifications

Display:

6-digit, 7-segment discrete oval red LED lamps
Contrast enhanced optical filtering lens
1- or 2-place decimal or comma indication
4 annunciators for GR, NT, lb, kg
4-inch red, green ball/arrow in Stop/Go model

Maximum Viewing Distance:

4 in: 250 ft (75 m)
6 in: 300 ft (100 m)

Input Interface:

RS-232, RS-485, 20 mA current loop (active or passive, switch selectable)

Output Interface:

Independently configurable echo out port or RS-232

Input Data Format:

Baud Rate: 1200, 2400, 4800, 9600 and 19200
self-learning or software selectable

Character Format:

7 or 8 data bits; even, odd, or no parity; 1 or 2 stop bits, self-learning or software selectable

Update:

Continuous or out-of-motion only; software selectable

Power Consumption:

4 in: 21 watt
6 in: 27 watt

Time:

Software enable/disable, 12- or 24-hour format

Date:

Software enable/disable, US or ISO format

Rating/Material:

IP66 weather tight, mild steel, powder coated

Dimensions:

4-inch (L x H): 22.28 in x 9.8 in
6-inch (L x H): 30.63 in x 12.77 in
Stop/Go (L x H): 30.63 in x 12.77 in
(flanges add 2.00 in width)

Weight:

4 in: 20 lb (9 kg)
6 in: 25 lb (11 kg)

Operating Temperature Range:

-40°F to 120°F (-40°C to 49°C)

Warranty:

Two-year limited warranty

Approvals:

UL/cUL on specific part numbers

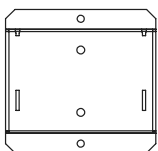
Part Number/Price

Part #	Description	Est. Weight	Price
Flange Mounted (included)			
167091	LaserLight2 remote display 4-inch (100 mm) includes PN 175305	20 lb	Consult
179521*	LaserLight2 remote display 4-inch (100 mm) marked UL/cUL includes PN 175305	20 lb	Consult
175286	LaserLight2 remote display 4-inch (100 mm) stainless steel includes PN 179910	20 lb	Consult
167092	LaserLight2 remote display 6-inch (150 mm) includes PN 175306	25 lb	Consult
179523*	LaserLight2 remote display 6-inch (150 mm) marked UL/cUL includes PN 175306	25 lb	Consult
167093	LaserLight2 remote display Stop/Go 4-inch (100 mm) includes PN 175306	25 lb	Consult
179525*	LaserLight2 remote display Stop/Go 4-inch (100 mm) marked UL/cUL includes PN 175306	25 lb	Consult
187120	LaserLight2 remote display Stop/Go 4-inch (100 mm) stainless steel includes PN 187123	25 lb	Consult
VESA Mounted (included)			
175860	LaserLight2 remote display 4-inch (100 mm) includes PN 175213	20 lb	Consult
179522*	LaserLight2 remote display 4-inch (100 mm) marked UL/cUL includes PN 175213	20 lb	Consult
175861	LaserLight2 remote display 6-inch (150 mm) includes PN 175213	25 lb	Consult
179524*	LaserLight2 remote display 6-inch (150 mm) marked UL/cUL includes PN 175213	25 lb	Consult
175862	LaserLight2 remote display Stop/Go 4-inch (100 mm) includes PN 175213	25 lb	Consult
179526*	LaserLight2 remote display Stop/Go 4-inch (100 mm) marked UL/cUL includes PN 175213	25 lb	Consult

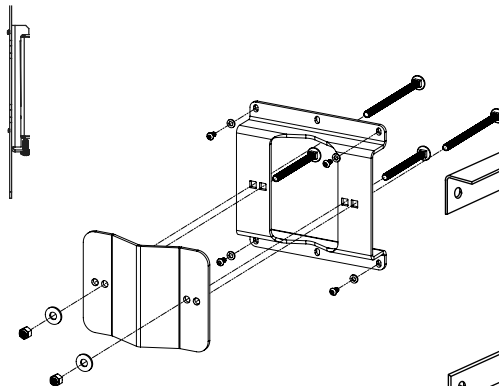
*UL/cUL on specific models

Options/Accessories

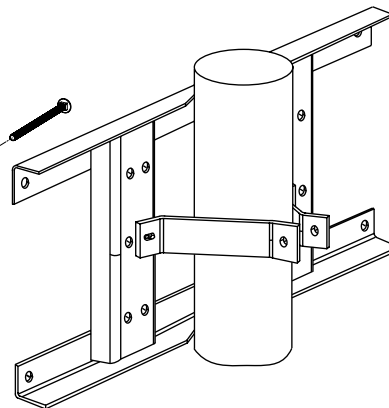
Part #	Description	Price
175052	Wireless interface, pair of ConnexLink Radios and mount	Consult
Consult	LaserLight2 green display (modified LED boards)	Consult
175213	Mount bracket, VESA flat-wall option (included with VESA mounted remote)	Consult
175305	Mount bracket, 4-inch flange option (included with flange mounted remote)	Consult
175306	Mount bracket, 6-inch flange option (included with flange mounted remote)	Consult
179910	Mount bracket, 4-inch stainless steel flange option (included with flange mounted stainless steel remote)	Consult
187124	Mount bracket, 6-inch stainless steel flange option (included with flange mounted stainless steel remote)	Consult
75856	Pole mount kit, 4-inch flange option (24-inch wide frame for 4-8 inch dia. pole)	Consult
77775	Pole mount kit, 6-inch and 4-inch stop/go flange option (32-inch wide frame for 4-8 inch dia. pole)	Consult
177865	Pole mount kit, VESA flat-wall option mount for 2-6 inch pole	Consult
178790	Offset kit (right or left flag mount) for universal pole mount (requires PN 177865)	Consult
181224	Visor for 22 inch enclosure (not required for weather protection)	Consult
181801	Visor for 31 inch enclosure (not required for weather protection)	Consult



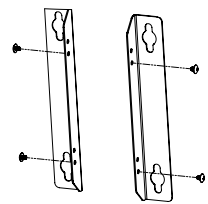
VESA flat-wall mount
PN 175213



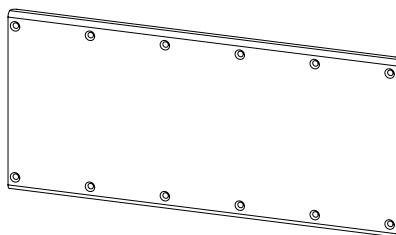
VESA pole mount kit
PN 177865



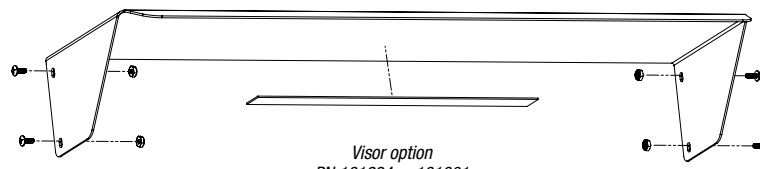
Flange pole mount kit
PN 75856 or 77775



Flange mount
PN 175305, 175306,
179910, 187124



Offset kit
PN 178790



Visor option
PN 181224 or 181801

LaserLight2™ Remote Display

Pole Mount Kit Installation

This document contains drawings, replacement parts lists, and instructions for installing the optional pole mount for the 4" and 6" LaserLight2 Remote Displays. See the LaserLight2 Technical Manual (PN 175775) for general installation and configuration and calibration information.



Manuals and additional resources are available from the Rice Lake Weighing Systems website at www.ricelake.com

Warranty information can be found on the website at www.ricelake.com/warranties



The LaserLight2 has no on/off switch. Before working with the unit, ensure the power cord is disconnected from the power outlet.

The LaserLight2 Remote Display can be easily mounted to a pole or steel I-beam using the optional pole mounting weldment and clinching brackets. The pole mounting kit can accommodate either the 4" or the 6" LaserLight2.

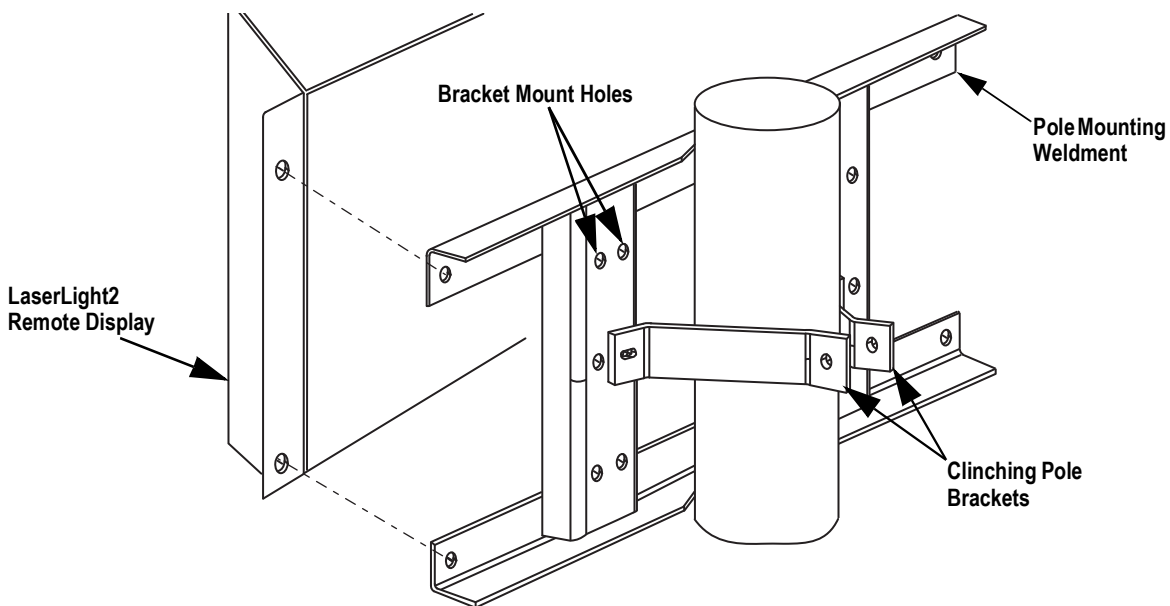


Figure 1. Optional Pole Mount Kit



The 4" models are attached to the pole mounting weldment at the center holes using two clinching pole brackets.

The 6" models use four clinching pole brackets and are connected using the top and bottom hole alignments.



The pole mounting weldment has two sets of mount holes. The two sets of bracket mount holes are for alternate diameter poles. The inner mount holes are used for smaller diameter poles while the outer mount holes are used for larger diameter poles.

Installation

1. Attach the clinching pole brackets to the pole mounting weldment using the 3/8"-16NC x 1" cap screws, washers and lock nuts supplied. See the information above for clinching pole bracket placement.
2. Attach the clinching pole brackets together using the 3/8-16NC x 2-3/4" bolt, washers and lock nut supplied. Tighten as necessary.
3. Repeat [Step 1–Step 2](#) for second set of clinching pole brackets if installing for a 6" model.
4. Align the back of the LaserLight2 Remote Display to the holes in the pole mount weldment. Secure with 5/16-18NC x 1/2" bolts, washers and nuts.

Replacement Parts

Table 1 lists the replacement parts for the pole mount options for the LaserLight2 4" Remote Display (PN 75856) and the LaserLight2 6" Remote Display (PN 77775).

Part No.	Description	Model	
		4" Qty.	6" Qty.
77000	4" Pole Mounting Weldment	1	–
76998	6" Pole Mounting Weldment	–	1
14646	Nut, Lock 5/16-18NC	4	4
14747	Bolt, 3/8-16NC x 2-3/4	1	2
14735	Bolt, 5/16-18NC x 1/2	4	4
15019	Cap Screws, 3/8-16NC x 1	2	4
21939	Washers 5/16 Type A	8	8
21938	Washers 3/8 Type A	4	8
22072	Lock Nuts, 3/8-16NC	3	6
76999	Clinching Pole Bracket	2	4
77001	Machine Screws 3/8-16NC x 6	3	6

Table 1. Replacement Parts



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LaserLight2™ Remote Display

ConnexLink™ Wireless Radio 900 MHZ Installation Instructions

Available for PNs 167091, 167092 and 167093

The ConnexLink Wireless Radio allows communication between the LaserLight2 Remote Display and an indicator with matching radio installed.

See the LaserLight2 Installation Manual, PN 175775, for general installation, configuration and calibration information.



Manuals and additional resources are available from the Rice Lake Weighing Systems website at www.ricelake.com

Warranty information can be found on the website at www.ricelake.com/warranties



The LaserLight2 has no on/off switch. Before opening the unit, ensure the power cord is disconnected from the power outlet.

Item	Part No.	Description	QTY.
	175053	Bracket Assembly, ConnexLink Radio	1
	180683	Cable Assembly, Transceiver RF	1
	180684	Cable Assembly, Power Supply	1
	129662	Pair Transceivers, RF	1
	15631	Cable Tie, 3 inch nylon	1

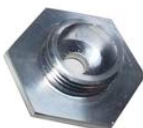
Item	Part No.	Description	QTY.
	14839	Screw, Mach 6-32NCx1/4	6
	102131	Antenna	1
	166240	Antenna Cable Extension	1
	202131	Bulkhead Adapter	1
	30376	1/2 NPT Nylon Seal Ring	1
	15630	1/2 NPT, Black Locknut	1

Table 1. ConnexLink Wireless Radio Kit (PN 175052) Parts List

The ConnexLink Wireless Radio can be installed in the 4", 6" or 4-SG LaserLight Remote Display. Use the following steps to install the ConnexLink Wireless Radio option;



Some procedures described in this manual require accessing the inside of the remote display enclosure. These procedures are to be performed by qualified service personnel only.



To ensure that the correct radio is installed with the remote display and the indicator, each radio is marked with either CLIENT and SERVER.

Client is to be installed with the remote display and the Server is to be installed with the indicator.

1. Open the LaserLight2 enclosure.
2. Flip the enclosure front panel downward exposing the cabinet interior.
3. Unplug and remove the main power supply wire harness.

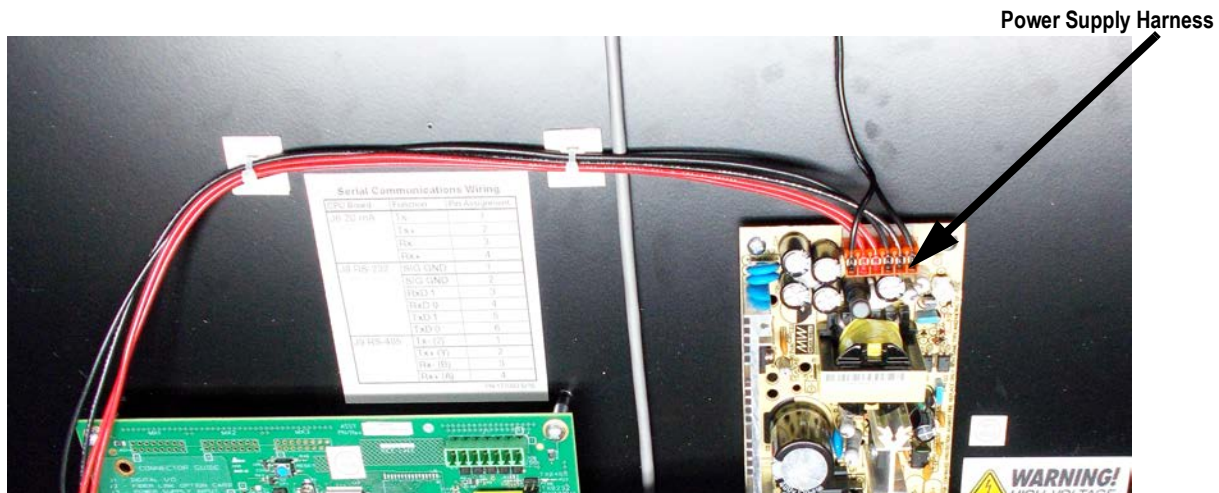


Figure 1. Remove Power Cable Wire Harness

4. Remove entire cord grip (1 of 2), in the bottom panel of the LaserLight2 (shown in Figure 5 on page 2).
5. Attach the bracket assembly to the enclosure using screws provided, as shown in Figure 2.

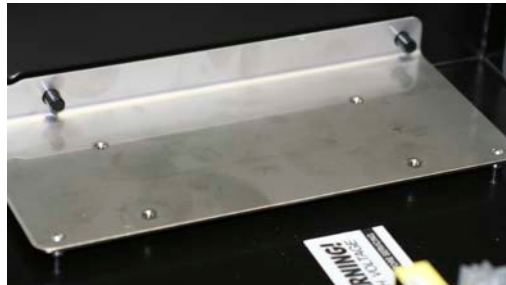


Figure 2. Attach Mount Plate and Bracket Assembly

6. Secure the antenna assembly by threading the bulkhead adapter through the enclosure hole.

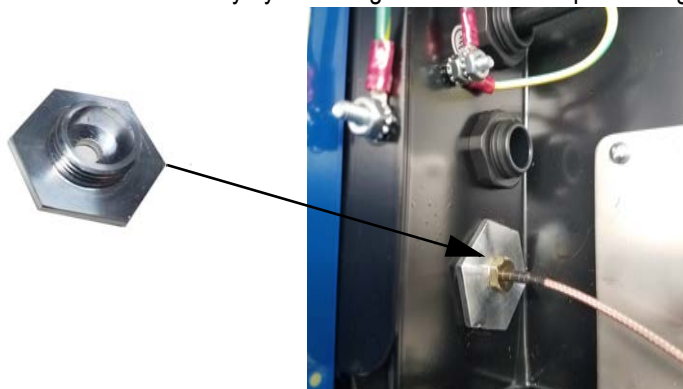


Figure 3. Secure Antenna Assembly

7. Secure bulkhead adapter using nylon seal ring (30376) and black locknut (15630). Thread the antenna extension cable through the bulkhead adapter and secure with a tooth washer and nut.



Figure 4. Thread Antenna Extension Cable Through

8. Thread the antenna onto the antenna extension cable.



Figure 5. Thread Antenna onto LaserLight2

9. Plug the 9-pin end of the RF Transceiver cable assembly to the ConnexLink Wireless Radio. Finger tighten.



Figure 6. Plug 9-Pin Connector

10. The 6-pin end of the RF transceiver cable assembly attaches to J8 on the CPU board.

11. Attach the antenna cable extension to the ConnexLink Wireless Radio.



Figure 7. Attach Cable Extension Antenna to ConnexLink Wireless Radio

12. Mount the ConnexLink Wireless Radio onto the bracket assembly, using the screws provided.



Figure 8. Mount ConnexLink Radio to Bracket

13. Attach the new power supply cable harness to the power supply and the CPU board.

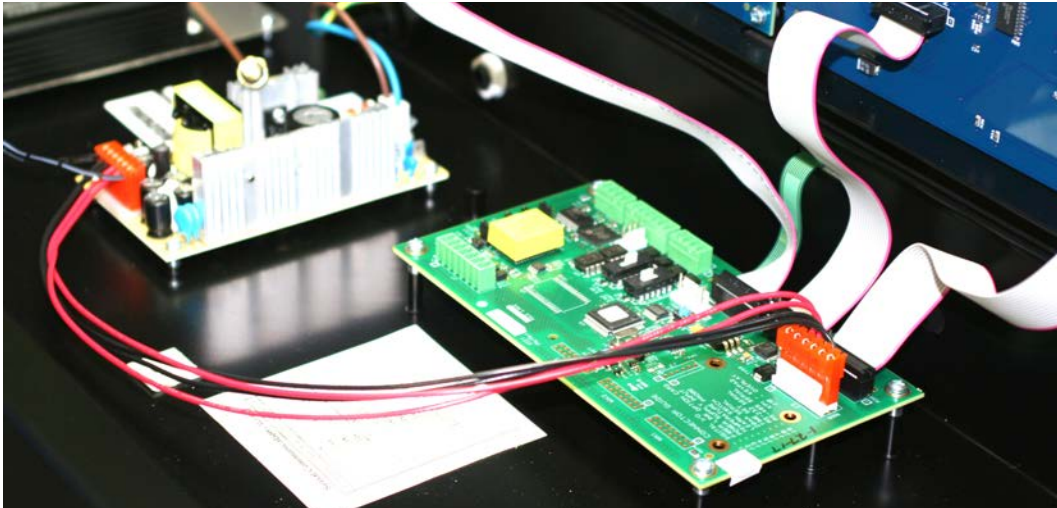


Figure 9. Connect the Power Supply Harness

14. Plug the power cord into the radio.



Figure 10. Connect Cable Assemblies



Note See the applicable indicator manual for further information.

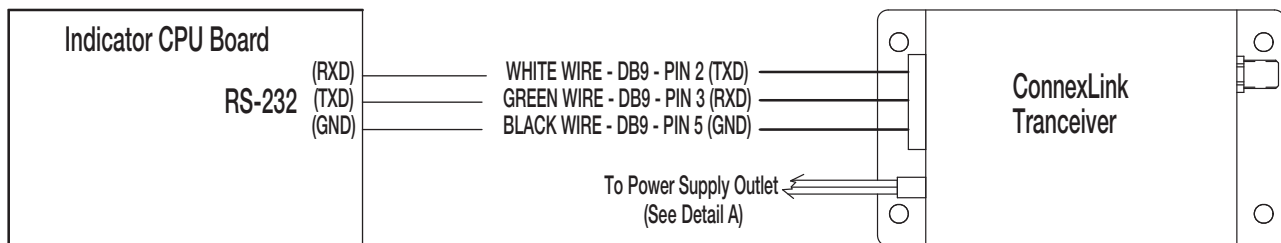


Figure 11. Connect ConnexLink Wireless Radio to Indicator



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APPENDIX F

BOUNDARY AND TOPOGRAPHIC SURVEY



SURVEY AREA

AREA MAP
(AS PER GOOGLE MAPS)
NOT TO SCALE

UTILITY NOTES:

1. THE LOCATION AND DEPTH OF ALL SUBSURFACE UTILITIES SHOWN ARE APPROXIMATE AND ARE BASED ON OBVIOUS ABOVE GROUND PHYSICAL UTILITY APPURTENANCES AND REFERENCE NO. 2. THE EXACT DEPTH AND LOCATION OF ALL SUBSURFACE UTILITIES SHALL BE VERIFIED BY OWNER, BY DIGGING TEST HOLES, PRIOR TO CONSTRUCTION. ADDITIONAL UTILITIES MAY EXIST.
2. CONTRACTOR SHALL CALL 1-800-272-1000 FOR UTILITY MARK-OUT PRIOR TO DIGGING, EXCAVATING AND/OR CONSTRUCTION. EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, EXIST ON AND ADJACENT TO THIS SITE. EACH CONTRACTOR OR SUBCONTRACTOR IS TOTALLY RESPONSIBLE FOR DETERMINING THE LOCATION OF SUCH UTILITIES, BOTH ON AND ADJACENT TO THE SITE AND AT BUILDING ENTRY POINTS, PRIOR TO PROCEEDING WITH ANY WORK. EACH CONTRACTOR OR SUBCONTRACTOR IS FURTHER RESPONSIBLE FOR COORDINATING ANY REQUIRED UTILITY SHUT-DOWNS OR INTERRUPTIONS WITH BUILDING TENANTS BEING SERVICED BY SUCH UTILITIES.

REFERENCES:

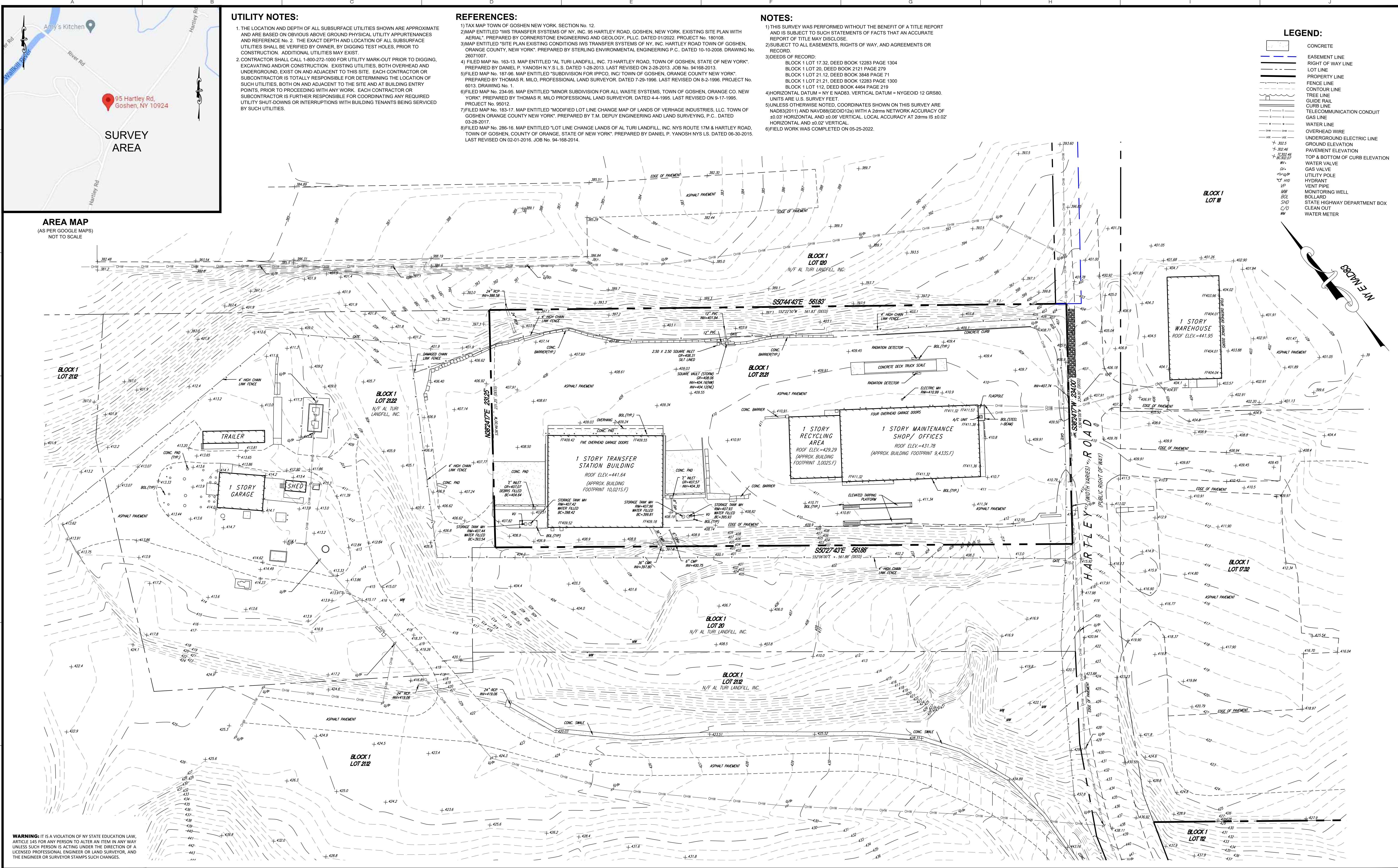
- 1) TAX MAP TOWN OF GOSHEN NEW YORK, SECTION No. 12.
- 2) MAP ENTITLED "IWS TRANSFER SYSTEMS OF NY, INC. 95 HARTLEY ROAD, GOSHEN, NEW YORK. EXISTING SITE PLAN WITH AERIAL". PREPARED BY CORNERSTONE ENGINEERING AND GEOLOGY, PLLC. DATED 01/2022. PROJECT No. 180108.
- 3) MAP ENTITLED "SITE PLAN EXISTING CONDITIONS IWS TRANSFER SYSTEMS OF NY, INC. HARTLEY ROAD TOWN OF GOSHEN, ORANGE COUNTY, NEW YORK". PREPARED BY STERLING ENVIRONMENTAL ENGINEERING P.C., DATED 10-10-2008. DRAWING No. 20071007.
- 4) FILED MAP No. 163-13. MAP ENTITLED "AL TURI LANDFILL, INC. 73 HARTLEY ROAD, TOWN OF GOSHEN, STATE OF NEW YORK". PREPARED BY DANIEL P. YANOSH N.Y.S.L.S. DATED 1-28-2013. LAST REVISED ON 2-28-2013. JOB No. 94168-2013.
- 5) FILED MAP No. 187-96. MAP ENTITLED "SUBDIVISION FOR IPPCO, INC. TOWN OF GOSHEN, ORANGE COUNTY NEW YORK". PREPARED BY THOMAS R. MILO, PROFESSIONAL LAND SURVEYOR. DATED 7-29-1996. LAST REVISED ON 8-2-1996. PROJECT No. 6013. DRAWING No. 1.
- 6) FILED MAP No. 234-95. MAP ENTITLED "MINOR SUBDIVISION FOR ALL WASTE SYSTEMS, TOWN OF GOSHEN, ORANGE CO. NEW YORK". PREPARED BY THOMAS R. MILO PROFESSIONAL LAND SURVEYOR. DATED 4-4-1995. LAST REVISED ON 9-17-1995. PROJECT No. 95012.
- 7) FILED MAP No. 183-17. MAP ENTITLED "MODIFIED LOT LINE CHANGE MAP OF LANDS OF VERAGE INDUSTRIES, LLC. TOWN OF GOSHEN ORANGE COUNTY NEW YORK". PREPARED BY T.M. DEPUY ENGINEERING AND LAND SURVEYING, P.C. DATED 03-28-2017.
- 8) FILED MAP No. 286-16. MAP ENTITLED "LOT LINE CHANGE LANDS OF AL TURI LANDFILL, INC. NYS ROUTE 17M & HARTLEY ROAD, TOWN OF GOSHEN, COUNTY OF ORANGE, STATE OF NEW YORK". PREPARED BY DANIEL P. YANOSH NYS LS. DATED 06-30-2015. LAST REVISED ON 02-01-2016. JOB No. 94-168-2014.

NOTES:

- 1) THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO SUCH STATEMENTS OF FACTS THAT AN ACCURATE REPORT OF TITLE MAY DISCLOSE.
- 2) SUBJECT TO ALL EASEMENTS, RIGHTS OF WAY, AND AGREEMENTS OR RECORD.
- 3) DEEDS OF RECORD:
 - BLOCK 1 LOT 17 32. DEED BOOK 12283 PAGE 1304
 - BLOCK 1 LOT 20. DEED BOOK 2121 PAGE 279
 - BLOCK 1 LOT 21 12. DEED BOOK 3848 PAGE 71
 - BLOCK 1 LOT 21 21. DEED BOOK 12283 PAGE 1300
 - BLOCK 1 LOT 112. DEED BOOK 4464 PAGE 219
- 4) HORIZONTAL DATUM = N.Y.E. NAD83. VERTICAL DATUM = NYGEOD12 GRS80. UNITS ARE U.S. SURVEY FEET.
- 5) UNLESS OTHERWISE NOTED, COORDINATES SHOWN ON THIS SURVEY ARE NAD83(2011) AND NAVD83(GEOD12a) WITH A 2dms NETWORK ACCURACY OF 40.03' HORIZONTAL AND 10.00' VERTICAL. LOCAL ACCURACY AT 2dms IS 10.02' HORIZONTAL AND 10.02' VERTICAL.
- 6) FIELD WORK WAS COMPLETED ON 05-25-2022.

LEGEND:

- CONCRETE
- EASEMENT LINE
- RIGHT OF WAY LINE
- LOT LINE
- PROPERTY LINE
- FENCE LINE
- CONTOUR LINE
- TREE LINE
- GUIDE RAIL
- CURB LINE
- TELECOMMUNICATION CONDUIT
- WATER LINE
- OVERHEAD WIRE
- UNDERGROUND ELECTRIC LINE
- GROUND ELEVATION
- PAVEMENT ELEVATION
- TOP & BOTTOM OF CURB ELEVATION
- WATER VALVE
- GAS VALVE
- UTILITY POLE
- HYDRANT
- VENT PIPE
- MONITORING WELL
- BOLLARD
- STATE HIGHWAY DEPARTMENT BOX
- CLEAN OUT
- WATER METER



**DRESDNER
ROBIN**

DRESDNER ROBIN - NEW YORK
1 EVERTRUST PLAZA, SUITE 901, JERSEY CITY, NJ 07302
TEL: 201.217.9200 FAX: 201.217.9607

JERSEY CITY • FAIRFIELD • ASBURY PARK • CHERRY HILL

GREG S. GLOOR

PROFESSIONAL SURVEYOR
NY LICENSE NUMBER 950779-1

1. 03/20/2024 AS PER CLIENT'S COMMENTS
NY DATE DESCRIPTION

REVISIONS:

OWNER / APPLICANT:

**IWS TRANSFER SYSTEMS OF
NY INC.**

300 FRANK W BURR BOULEVARD, SUITE 39
TEANECK, NEW JERSEY 07666

DRAWING TITLE:

**BOUNDARY &
TOPOGRAPHIC SURVEY**

PROJECT:

95 HARTLEY ROAD
LOT 17.32, 20, 21.21 & 21.22, BLOCK 1
PORTION OF LOTS 18, 21.12, 112 & 120, BLOCK 1
TOWN OF GOSHEN
ORANGE COUNTY, NEW YORK

SCALE:

40 20 0 40
SCALE: 1"=40'

DRAWN BY:

SD / KAM

SCALE:

1"=40'

DATE:

06-17-2022

JOB NO:

11688-003

CHECKED BY:

GSG

DRAWING NUMBER:

DATE:

06-17-2022

JOB NO:

11688-003

SHEET

01

DRAWING NUMBER:

DATE:

06-17-2022

JOB NO:

11688-003

SHEET

01

OF

01

APPENDIX E: CORRESPONDENCE

Appendix E-1: Letter from NYS Parks, Recreation and Historic Preservation dated June 6, 2023

Appendix E-2: Transmittal letter for the NYSDEC Part 360 Series Permit Renewal/Modification stamped received on March 27, 2024

Appendix E-3: Letter from NYS Parks, Recreation and Historic Preservation dated April 22, 2025

Appendix E-4: June 2, 2025 email from Katherine Coffin, regarding partial comments

Appendix E-5: June 2, 2025 letter to NYSDOT, Region 8

**APPENDIX E-1: LETTER FROM NYS PARKS, RECREATION AND HISTORIC
PRESERVATION DATED JUNE 6, 2023**



**New York State
Parks, Recreation and
Historic Preservation**

KATHY HOCHUL
Governor

ERIK KULLESEID
Commissioner

June 6, 2023

Kristen Thordahl
Client Manager
Cornerstone Engineering and Geology, PLLC
100 Crystal Run Road
Suite 101
Middletown, NY 10941

Re: DEC
IWS Goshen Transfer Station: Demolition and New Construction
95 Hartley Rd, Goshen, NY 10924
23PR04473
12-1-20, 21.21 & 21.22

Dear Kristen Thordahl:

Thank you for requesting the comments of the Division for Historic Preservation of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the submitted materials in accordance with the New York State Historic Preservation Act of 1980 (section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the Division for Historic Preservation and relate only to Historic/Cultural resources.

OPRHP has reviewed the newly submitted revised site plans for the IWS Goshen Transfer Station: Demolition and New Construction project (23PR04473). We note that the plan has been altered to remove the previously planned stormwater retention infrastructure.

Based upon this review, it remains OPRHP's opinion that no properties, including archaeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project.

If you have any questions, I can be reached at Bradley.Russell@parks.ny.gov.

Sincerely,

Bradley W. Russell, Ph.D.
Historic Preservation Specialist - Archaeology

**APPENDIX E-2: TRANSMITTAL LETTER FOR THE NYSDEC PART 360
SERIES PERMIT RENEWAL/MODIFICATION STAMPED RECEIVED ON
MARCH 27, 2024**



RECEIVED

HAND DELIVERED
MAR 27 2024
NYSDEC
Region 3 - New Paltz

Transmittal Letter

March 27, 2024

Mr. John Petronella
Regional Permit Administrator
New York State Department of Environmental Conservation,
21 South Putt Corners Road
New Paltz, NY 12561-1696

Re: Goshen Transfer Station Permit Renewal/Modification
Permit ID 3-3330-00094/00001
Facility ID 36-W-01

Quantity	Description
2	CD of Enclosed Documents
2	Application for a Solid Waste Management Facility Permit – Renewal/Modification
2	Record of Compliance Forms - Applicant
2	Engineering Report dated March 2024
2	Facility Manual dated March 2024

For Your:	Sent Via:
☐ Use	☐ Regular Mail
☒ Approval	☐ UPS
☐ Review/Comment	☐ Federal Express
☐ Other	☒ Other (Hand Delivery)

Comments:

The enclosed documents are submitted on behalf of I.W.S. Transfer Systems of N.Y., Inc. for the Solid Waste Facility permit renewal/modification for the Goshen Transfer Station located at 95 Harley Road, Goshen, NY.

The Facility upgrade project has gone through the SEQR process with the Town of Goshen as Lead Agency, and has received Conditional Site Plan approval, pending receipt of all required permits.

If you have any questions or need any additional information, please do not hesitate to contact Kristen or myself.

Transmitted By: Kristen M. Thordahl, P.E.

cc: David Pollock, P.E. - NYSDEC
James Anderson, I.W.S.

Cornerstone Engineering and Geology, PLLC
100 Crystal Run Road, Suite 101, Middletown, NY 10941
Tel 877.294.9070 Fax 877.845.1456 tetrattech.com

**APPENDIX E-3: LETTER FROM NYS PARKS, RECREATION AND HISTORIC
PRESERVATION DATED APRIL 22, 2025**



**New York State
Parks, Recreation and
Historic Preservation**

KATHY HOCHUL
Governor

RANDY SIMONS
Commissioner Pro Tempore

April 22, 2025

Kristen Thordahl
Project Engineer
Cornerstone Engineering and Geology, PLLC
100 Crystal Run Road
Suite 101
Middletown, NY 10941

Re: DEC
Town of Goshen Chapter 80-B Solid Waste Management Permit
95 Hartley Rd, Goshen, NY 10924
25PR03162

Dear Kristen Thordahl:

Thank you for requesting the comments of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the project in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the OPRHP and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project.

Based upon this review, it is the opinion of OPRHP that no properties, including archaeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above. If you have any questions, please contact Bradley Russell at the following email address:

Bradley.Russell@parks.ny.gov

Sincerely,

R. Daniel Mackay

Deputy Commissioner for Historic Preservation
Division for Historic Preservation

**APPENDIX E-4: JUNE 2, 2025 EMAIL FROM KATHERINE COFFIN,
REGARDING RESPONSE TO PARTIAL COMMENTS**

From: [Thordahl, Kristen](#)
To: [Coffin, Katherine T \(DEC\)](#)
Cc: [Mukamal, Alexander J \(DEC\)](#); [Upright, Douglas J \(DEC\)](#); [Pickard-DePriest, Kerri L \(DEC\)](#); [James Anderson](#); [JDunham](#); mriso@townofgoshen.org
Subject: RE: DEC ID 3-3330-00094/00001 (SW) NOIA - Partial Comments for Goshen Transfer Station
Date: Monday, June 2, 2025 8:38:00 AM
Attachments: [IWS Goshen NOIA Response \(6-2-2025\).pdf](#)
[image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

Good morning.

On behalf of I.W.S. Transfer Systems of N.Y., Inc., Cornerstone Engineering and Geology, PLLC is submitting the updated application form, record of compliance forms and Owner's statement as noted in your May 19, 2025, Notice of Incomplete Application – Partial Comments (NOIA) for the Goshen Transfer Station (Facility) located at 95 Hartley Road, Goshen, Orange County.

Please let me know if you have any additional comments on the forms. Thank you.

Take care,

Kristen M. Thordahl, P.E. | Project Engineer
Direct +1 (845) 695-0225 | Business +1 (877) 294-9070 | Mobile +1 (845) 341-7304 | Fax +1 (877) 845-1456 | Kristen.Thordahl@TetraTech.com

100 Crystal Run Road, Suite 101 | Middletown, NY 10941 | cornerstoneeg.com

This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.

From: Coffin, Katherine T (DEC) <Katherine.Coffin@dec.ny.gov>
Sent: Monday, May 19, 2025 3:44 PM
To: Thordahl, Kristen <kristen.thordahl@tetrattech.com>
Cc: Mukamal, Alexander J (DEC) <alexander.mukamal@dec.ny.gov>; Upright, Douglas J (DEC) <Douglas.Upright@dec.ny.gov>; Pickard-DePriest, Kerri L (DEC) <Kerri.Pickard-DePriest@dec.ny.gov>; James Anderson <janderson@interstatewaste.com>; JDunham <jdunham@interstatewaste.com>; mriso@townofgoshen.org
Subject: DEC ID 3-3330-00094/00001 (SW) NOIA - Partial Comments for Goshen Transfer Station

 **CAUTION:** This email originated from an external sender. Verify the source before opening links or attachments. 

Please see the attached Notice of Incomplete Application – Partial Comments for Goshen Transfer Station (DEC ID 3-3330-00094/00001 (SW)).

No hard copies to follow.

If you have any questions, feel free to contact me.

Best,

Katherine Coffin

Deputy Regional Permit Administrator
Division of Environmental Permits

New York State Department of Environmental Conservation

21 South Putt Corners, New Paltz, NY 12561

P: (845) 256-3158 | katherine.coffin@dec.ny.gov

www.dec.ny.gov |  |  | 



Department of
Environmental
Conservation



10. NAME(S) OF ALL MUNICIPALITIES IN SERVICE AREA:

Municipalities in Orange County, New York

11. SOLID WASTE ACCEPTED: Identify facility capacity and throughput of each waste type, as applicable

The Facility will accept up to 670 TPD of MSW and C&D Debris when operating under Part 362-3 or a maximum of 570 TPD of MSW and a maximum of 100 TPD of C&D when operating under both Part 362-3 and Part 361-5.

FOR MODIFICATION APPLICATION ONLY**12. DOES THE MODIFICATION APPLICATION INVOLVE (CHECK ALL APPLICABLE BOXES):**

☐ New waste type ☐ New equipment ☐ Waste acceptance rate increase ☒ Facility expansion (including landfill)

SKIP QUESTION #13 AND #14 IF APPLYING FOR RENEWAL ONLY**13. APPLICATION DESCRIPTION***Include a brief description of new or modification request*

The Facility is requesting that 70 TPD of source-separated recyclables be converted to MSW and C&D Debris. The Facility will accept up to 670 TPD of MSW and C&D Debris when operating under Part 362-3 or a maximum of 570 TPD of MSW and a maximum of 100 TPD of C&D when operating under both Part 362-3 and Part 361-5.

14. FACILITY SIZE

a. Facility size proposed (acres) 3.0
b. Total site area (acres) 3.0

For modification application ONLY

c. Associated facility size change (acres) 0.23

For Landfill ONLY

d. Facility size ultimately planned (acres) _____
e. Existing landfill area on this site and adjacent properties (acres) _____
f. Ultimate facility height above ground level (feet) _____

15. IS A VARIANCE REQUESTED FROM ANY PROVISION OF 6 NYCRR PART 360 SERIES?

☐ Yes ☒ No If yes, submit an application for variance and cite specific provision(s) here: _____

16. REAL PROPERTY OWNER CERTIFICATION

☐ Corporation ☐ Partnership ☐ Sole Proprietorship ☐ Municipality/other government entity ☒ Other: Incorporation

I hereby attest that I am the owner of the real property on which the facility is located or the proposed or modified facility will be located and am signing in my individual capacity.

Or if signing in a representative capacity: I hereby attest that I am the (indicate title or capacity) CEO, an authorized representative of the owner of the real property on which the facility is located or the proposed or modified facility will be located). I am duly authorized on behalf of said owner to sign make this certification on this application.

I grant permission for the applicant to apply for the permit, and construct and operate the facility described in the application in accordance with a final DEC permit or approval. I also grant permission for the department to access the above-described real property, including any adjacent areas, during all reasonable times (including but not limited to 7:00 am to 7:00 pm Monday through Friday, and additional facility hours of operation, and as appropriate during emergencies and similar exigent circumstances) without the property owner, applicant or other representative of the property owner or facility present. If the property is posted with "keep out" signs or fenced with an unlocked gate, department staff may still enter the property. Department staff may traverse the property, inspect the facility, take measurements, analyze site physical characteristics, take soil and vegetation samples, sketch and photograph the property, and conduct other activities necessary to evaluate the permit application or assess the facility's compliance with the permit and any other applicable statutory or regulatory requirements.

I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Signature: Michael Di Bella Print Name: Michael Di Bella Date: 5/29/2025

Title or Representation if signing in a representative capacity: CEO

17. APPLICANT CERTIFICATION

☐ Corporation ☐ Partnership ☐ Sole Proprietorship ☐ Municipality/other government entity ☒ Other: Incorporation

I hereby attest that I am the (check one) ☐ President/Vice President ☐ General Partner ☐ Sole Proprietor ☐ Duly Authorized Municipal Representative CEO of (APPLICANT) I.W.S. Transfer Systems of N.Y., Inc. and the legally responsible party for this application as presented to NYSDEC. I affirm that the statements and information provided on this application and all attachments submitted herewith are true, accurate, and complete.

I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. I accept full responsibility for all damage, direct or indirect, of whatever nature, and by whomever suffered, arising out of the project described herein and agree to indemnify and hold harmless the State from any and all causes of action in law or equity, resulting from the said project.

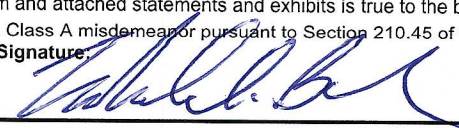
Signature: Michael Di Bella Print Name: Michael Di Bella Date: 5/29/2025

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DEC APPLICATION NUMBER:

RECORD OF COMPLIANCE-Permit Application Supplement

Please read all instructions on reverse side before completing this application

1. FULL NAME OF APPLICANT Interstate Waste Services, Inc.		
2. MAILING ADDRESS (Principal Place of Business) Street 300 Frank W. Burr Blvd., Ste. 39 City/State/Zip Code Teaneck, NJ 07666		3. NEW YORK STATE MAILING ADDRESS (If different) Street 89 Black Meadow Road City/State/Zip Code Chester, NY 10918
4. TYPE OF ORGANIZATION ☐ Company ☐ Corporation ☐ Individual ☐ Partnership ☒ Other Incorporation		If other than individual, provide Federal Taxpayer ID Number 32-0620266
5. Does the applicant currently hold any permit issued under the Environmental Conservation Law? ☐ Yes ☒ No		
6. a. Has the applicant been denied a permit or has the applicant had a permit revoked or suspended under the Environmental Conservation Law? or b. Is the applicant currently the subject of an enforcement action under the Environmental Conservation Law? a. ☐ Yes ☒ No b. ☐ Yes ☒ No		
7. If any answer to questions 5, 6(a), or 6(b) is YES, provide details on a separate page and attach it to this form.		
8. Has the applicant, and if the applicant is a corporation, has any officer, director, or large stockholder (owner of 25 percent or more of not publicly-traded stock) of the corporation, within the last ten (10) years, been: a. found in an administrative, civil or criminal proceeding to have violated any provision of the Environmental Conservation Law (ECL), any related order or determination of the Commissioner, any regulation promulgated pursuant to the ECL, the condition of any permit issued thereunder, or any similar statute, regulation, order or permit condition of any other state or federal government agency? ☐ Yes ☒ No		
b. an officer, director or large stockholder (owner of 25% or more of not publicly-traded stock) of a corporation which-during the time such person was an officer, director or large stockholder-was determined in an administrative, civil or criminal proceeding to have violated any provision of the Environmental Conservation Law (ECL), any related order or determination of the Commissioner, any regulation promulgated pursuant to the ECL, the condition of any permit issued thereunder, or any similar statute, regulation, order or permit condition of any other state or federal government agency? ☐ Yes ☒ No		
c. convicted of a criminal offense under the laws of any state or federal government agency, which involves environmental statutes or regulations, or fraud, bribery, perjury, theft or an offense against public administration as that term is used in Article 195 of the Penal Law, or an offense involving false written statements as those terms are defined in Article 175 of the Penal Law? Out-of-state history may be limited to misdemeanors, felonies and civil penalties assessed at \$25,000 or more. ☐ Yes ☒ No		
d. an officer, director or large stockholder (owner of 25% or more of not publicly-traded stock) of a corporation which-during the time such person was an officer, director or large stockholder-was convicted of a criminal offense under the laws of any state or federal government agency, which involves environmental statutes or regulations or fraud, bribery, perjury, theft, or an offense against public administration as that term is used in Article 195 of the Penal Law, or an offense involving false written statements as those terms are defined in Article 175 of the Penal Law? Out-of-state history may be limited to misdemeanors, felonies and civil penalties assessed at \$25,000 or more. ☐ Yes ☒ No		
9. If any answer to questions 8a through 8d is YES, provide details on a separate page and attach it to this form.		
10. Does the applicant currently owe any regulatory fees pursuant to Article 72 of the Environmental Conservation Law to the Department of Environmental Conservation? ☐ Yes, amount \$ ☒ No Under dispute for year(s) Amount \$		
11. CERTIFICATION (By Applicant who is an Individual) I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. Date: Signature: Print Name:		
ITEMS 12 THROUGH 15 TO BE COMPLETED BY AN APPLICANT OTHER THAN AN INDIVIDUAL		
12. SPECIFY UNDER WHAT LAW APPLICANT WAS ORGANIZED Delaware General Corporation Law		13. STATE 14. DATE OF ORGANIZATION DE 1/14/2020
15. CERTIFICATION (By an Applicant Other Than an Individual) I hereby affirm under penalty of perjury that I am CEO (title) of Interstate Waste Services, Inc. (entity); that I am authorized by that entity to make this application; that this application was prepared by me or under my supervision and direction; and that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. Date: 5/30/25 Signature:  Print Name: Michael DiBella		



DEPARTMENT USE ONLY	
DEC APPLICATION NO.	
ACTIVITY NUMBER(S)	

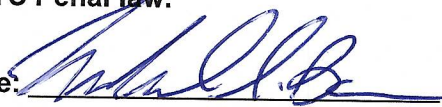
New York State Department of Environmental Conservation
RECORD OF COMPLIANCE SUPPLEMENTAL INFORMATION FORM

1. APPLICANT NAME:	<u>I.W.S. Transfer Systems of N.Y., Inc.</u>		
2. ADDRESS:	<u>300 Frank W. Burr Blvd., Ste. 39</u>		
CITY:	<u>Teaneck</u>	STATE/ZIP:	<u>NJ 07666</u>
3. PLEASE LIST ALL OF THE OWNERS/PARTNERS OF THE FACILITY THAT IS APPLYING FOR THE PERMIT*, INCLUDING ANY OTHER NAME THEY ARE CURRENTLY OR HAVE EVER BEEN KNOWN BY: I.W.S. Transfer Systems of N.Y., Inc. has one shareholder, The Action Environmental Group, Inc. which company also has one shareholder, Interstate Waste Services, Inc. The majority of ownership is with private equity firms which are professional investors that invest in businesses from funds raised from institutions such as pension funds, insurance companies and high net worth individuals. I.W.S. Transfer Systems of NY, Inc. has been owned by private equity firms since its inception in 2010.			

4. PLEASE LIST THE NAMES OF ALL OTHER COMPANIES THAT ARE OWNED OR PARTLY OWNED BY THE PEOPLE LISTED ABOVE**. Also list the companies that own or control or are related to the applicant company, all subsidiaries, parent companies, sister companies. Also include ADDRESSES, WEBSITE ADDRESSES, and WHAT EACH LISTED COMPANY DOES (BUSINESS FIELD, e.g., "Solid Waste Transfer" or "Cement Plant" or "Real Estate Holding Co").

RELATED COMPANY NAME	COMPANY ADDRESS	COMPANY WEBSITE	BUSINESS FIELD
Interstate Waste Services, Inc.	300 Frank W. Burr Blvd., Ste. 39 Teaneck, NJ 07666	None	Solid Waste
The Action Environmental Group, Inc.	300 Frank W. Burr Blvd., Ste. 39, Teaneck, NJ 07666	None	Corporate

5. CERTIFICATION BY APPLICANT: I certify that the above information is true to the best of my knowledge. I am aware that any false and/or misleading statements may be subject to prosecution under NYS Penal law.

Signature:  Date: 5/30/25 Email address: mdibella@interstatewaste.com

Name (Print or type): Michael DiBella Title (Print or type): CEO

* This form is applicable not only to the immediate entity but to any other corporation, partnership, association or organization in which the applicant holds or has held a substantial interest or in which it has acted as a high managerial agent or director or any other individual, corporation, partnership or organization which holds a substantial interest or the position of high managerial agent or director in the applicant.

** If the applicant company is owned by another company, corporation, partnership, association or organization, then the companies that need to be listed are all of the companies owned or controlled by the largest parent organization involved.



Department of
Environmental
Conservation

OWNER'S STATEMENT

The undersigned I.W.S. Transfer Systems of N.Y., Inc. (*property owner*) hereby swears that he/she is the owner of property located at 95 Hartley Road in the Town of Goshen more specifically identified as Tax Map # 12-1-21.21, and that he/she approves of the issuance of a 6NYCRR Part 360 Solid Waste Management Facility registration to I.W.S. Transfer Systems of N.Y., Inc. to operate a Solid Waste TS & C&D Debris Handling & Recovery Facility pursuant to Subpart 360-361-5 & 362-3 handling specifically MSW and C&D Debris with a design capacity of 670 tons day, storing no more than 642 cubic yards at any time on said property and in the event that I.W.S. Transfer Systems of N.Y., Inc. vacates the premises and does not properly close the facility pursuant to Part 360, then I.W.S. Transfer Systems of N.Y., Inc. (*property owner*) will be responsible for such proper closure of the facility under Part 360.

Dated: 5/30/2025 By: Michael Di Bella

Jersey
STATE OF NEW ~~YORK~~)
COUNTY OF Bergen) ss.:

On the 30th day of May, 2025, before me personally came Michael Di Bella to me known, who being duly sworn, deposed and said that he/she resides at 3 Glenbrook Dr, Park Ridge NJ 07656; that he/she is the individual described in and who executed the foregoing instrument, and he/she acknowledged to me that he/she executed same.

Tracie L. Truncellito

TRACIE L. TRUNCCELLITO
NOTARY PUBLIC
State of New Jersey
ID # 50043912
My Commission Expires 8/19/2026

APPENDIX E-5: JUNE 2, 2025 LETTER TO NYSDOT, REGION 8



June 2, 2025

Mr. Lance McMillan, P.E., Regional Director
Mr. Mark Tiano, P.E., Regional Design Engineer
New York State Department of Transportation
3233 US-6
Middletown, NY 10940

Re: I.W.S. Transfer Systems of N.Y., Inc.
Goshen Transfer Station
95 Hartley Road, Town of Goshen, Orange County

Dear Mr. McMillan and Mr. Tiano:

On behalf of I.W.S. Transfer Systems of N.Y., Inc. (IWS), Cornerstone Engineering and Geology, PLLC (Cornerstone) is currently before the Town of Goshen Town Board seeking a permit for IWS's Transfer Station located at 95 Hartley Road, Goshen, Orange County. The application process involves the preparation of a Draft Environmental Impact Statement (DEIS). As requested by the Town Board, the DEIS must address the intersection of NYS Route 17M and Hartley Road due to the Town's concerns about the lack of left turning lanes and the number of traffic accidents that have occurred at this intersection.

According to the Traffic Impact Study prepared for Goshen Redi-Mix – Musckett Court, Town of Goshen, Orange County, New York by Colliers Engineering & Design dated October 24, 2023, it was noted that a traffic signal communication modem and related signal actuation improvements are proposed for this intersection. Additionally, construction of left turning lanes along NYS Route 17M at the intersection Hartley Road and Gate Schoolhouse Road are proposed in order to address the increased traffic associated with the proposed 2659 Route 17M and 2675 NYS Route 17 RDM projects, as well as the proposed Dunkin' Donuts project to be located at the intersection of Gate Schoolhouse Road and NYS Route 17M.

Cornerstone would like to know the timeline for implementation of these proposed improvements. We appreciate your response. Please feel free to contact me at 845-695-0225. Thank you.

Sincerely,

CORNERSTONE ENGINEERING AND GEOLOGY, PLLC

A handwritten signature in black ink, appearing to read 'K. Thordahl'.

Kristen M. Thordahl, P.E.
Project Engineer

cc. Joseph Betro, Town of Goshen Supervisor
Broderick Knoell, Town of Goshen Highway Superintendent
James Anderson – IWS

**APPENDIX F: RESOLUTION OF CONDITIONAL APPROVAL, SPECIAL
PERMIT AND MAJOR SITE PLAN AND CONDITIONALLY APPROVED SITE
PLAN DRAWINGS**

RESOLUTION OF CONDITIONAL APPROVAL
SPECIAL PERMIT AND MAJOR¹ SITE PLAN
FOR
I. W. S. TRANSFER SYSTEMS OF N.Y., INC.
(A/K/A GOSHEN TRANSFER STATION UPGRADES)

APPLICATION SUMMARY

I.W.S. Transfer Systems of N.Y., Inc., (a/k/a Goshen Transfer Station Upgrades)², its successors and assigns (hereinafter “the Applicant”) is proposing to construct a 9,345 square foot addition to an existing solid waste management facility^{3, 4}, including an expansion of the transfer building and a loadout tunnel to comply with revised New York State Department of Environmental Conservation regulations, on property consisting of approximately 3.0+/- acres located with frontage along Hartley Road.

¹ As the project involves the construction of a structure for a nonresidential with a building footprint in excess of 3,000 square feet, this project is a major project under Town Code § 97-70(D)(1)(d).

² An Owner’s Endorsement has been provided by James Anderson, the Director of Engineering of I.W.S. Transfer Systems of N.Y., Inc.

³ A “solid waste management facility” is defined as “Any facility employed to manage solid waste beyond the initial waste collection process, including but not limited to transfer stations, bailing facilities, rail haul or barge haul facilities, processing systems, including resource recovery facilities or other facilities for reducing solid waste volume, sanitary landfills, facilities for the disposal of construction and demolition debris, plants and facilities for compacting, composting or pyrolysis of solid wastes, incinerators and other solid waste disposal, reduction or conversion facilities, as defined in 6 NYCRR 360-1.2.” Town Code § 97-84. Additional regulations related to solid waste management facilities can be found in Chapter 80B of the Town Code.

⁴ The Town Board granted a solid waste management permit to this facility in June 2003, and in September of 2006 issued a Notice of Intent to Transfer Permit to the Applicant.

IDENTIFICATION OF THE PROPERTY

The property that is the subject of this Resolution is located with frontage along Hartley Road, and is shown on the Tax Map of the Town of Goshen, New York as Section 12, Block 1, Lot 21.21. The property is located in the Industrial (I) District, within the AQ-6 Overlay District.

IDENTIFICATION OF THE PLANS

The following are the plans and other submittals which form the basis of the Planning Board's action in this matter:

1. Planning Board Application, undated;
2. Owner's Endorsement, dated November 30, 2022;
3. Site Inspection Authorization, dated November 30, 2022;
4. Correspondence from Cornerstone Engineering and Geology, PLLC, dated December 1, 2022 (1 page), February 24, 2023 (9 pages), May 18, 2023 (1 page), May 24, 2023 (1 page), November 17, 2023 (8 pages), and January 30, 2024 (8 pages);
5. Correspondence from Cornerstone Engineering and Geology, PLLC, dated May 18, 2023 (21 pages), including:
 - a. Figure No. 1, entitled "Packer Truck Circulation Path", prepared by Cornerstone Engineering and Geology, PLLC, undated;
 - b. Figure No. 2, entitled "Transfer Trailer Circulation Path", prepared by Cornerstone Engineering and Geology, PLLC, undated; and
 - c. Technical Report, prepared by SGS for Cornerstone Engineering and Geology, PLLC, 11 pages, dated May 10, 2023.
6. Project Narrative, prepared by Cornerstone Engineering and Geology, PLLC, dated December 1, 2022;

7. Full Environmental Assessment Form, Part 1, with Site Location Map, dated December 1, 2022, revised February 23, 2023, May 17, 2023 and November 15, 2023;
8. Correspondence from the New York State Department of Environmental Conservation, dated February 7, 2023;
9. Correspondence from the Orange County Department of Planning, dated January 23, 2023;
10. Full Environmental Assessment Form, Part 2, dated March 17, 2023;
11. Expanded Part 3 Environmental Assessment Form, prepared by Cornerstone Engineering and Geology, PLLC, dated May 24, 2023;
12. Correspondence from the New York State Office of Parks, Recreation and Historic Preservation, dated June 6, 2023;
13. Correspondence from Cornerstone Engineering and Geology, PLLC, entitled "Special Permit Criteria (§ 97-73 and § 97-50)", 30 pages, dated November 9, 2023;
14. Zoning Board of Appeals Meeting Minutes containing Decisions, dated September 19, 2023 and February 6, 2024; and
15. Site Plan, prepared by Cornerstone Engineering and Geology, PLLC, dated November 2022, last revised November 2023:

Sheet No.	Description	Last Revised
1	Cover Sheet	11/2023
2	Existing Site Conditions	11/15/23
3	Site Plan	11/15/23
6	Site Lighting Plan	11/15/23
7	Site Details	11/2022

PROCEDURAL HISTORY

The application was filed on or around December 1, 2022. The Planning Board determined that under the State Environmental Quality Review Act (“SEQRA”) the application was an Unlisted action. The Planning Board declared its intent to serve as Lead Agency on January 5, 2023, and subsequently assumed Lead Agency status on March 16, 2023, as no objections had been received. On June 15, 2023, the Planning Board issued a Negative Declaration on the application under SEQRA, stating that it will have no significant impact on the environment.

The public hearing on this application was held on February 1, 2024, when it was closed.

The Planning Board received correspondence from the Orange County Department of Planning dated January 24, 2023. The Orange County Planning Department determined that the application should be a local determination, and found no evidence that significant intermunicipal or countywide impacts would result from its approval.

The application was referred to the Orange County Department of Public Works; no response was received.

FINDINGS

The Planning Board has determined that approval of this site plan will protect and promote public health, safety, comfort, convenience, and economy, as well as the natural, agricultural, and cultural resources, aesthetics, and the general welfare. Furthermore, the character of the land is such that it can be used safely for building purposes without danger to health, or peril from fire, flood, or other menace.

In accordance with § 97-73(B), related to special permit findings, the Planning Board finds the application will not result in excessive off-premises noise, dust, odors, solid waste, or glare and will not create any public or private nuisances. The

proper provisions have been made for stormwater management and other related needed improvements and utilities. The Planning Board finds that the proper provisions have been made for potable water supply or wastewater collection and treatment. The Town Highway Department has confirmed that the streets accessing the property are of such width, grade, condition and location as to accommodate the present and anticipated future vehicular traffic and to facilitate fire, police, and other emergency protection. No new roadways are proposed. Subject to the provisions and conditions of this approval, the project will not cause significant traffic congestion, impair pedestrian safety, or overload existing roads. Furthermore, the Planning Board determined that this project would not materially degrade any watercourse or other natural resource or ecosystem or degrade the water quality or quantity of an aquifer. This project is suitable for the property on which it is proposed, and is subject to conditions on operation and design. It avoids strip commercial development, does not adversely affect the availability of affordable housing in the Town, and complies with the site plan criteria in § 97-75(D). This site is laid out in a manner that reflects and complements the natural, historic, and scenic resources of the Town.

On October 7, 2022, the Building Inspector determined that the use of the facility as a solid waste management facility is a legally pre-existing nonconforming use, and in accordance with Town Code § 97-32(B), the Planning Board could issue a special permit allowing expansion of a nonconforming use or structure by up to 50% of its area at the time of the adoption of the Zoning Code, and that such expansion does not reduce any nonconforming setback by more than 20%. Furthermore, the following were determined to be legally pre-existing, nonconforming conditions permitted to remain:

	Required	Existing
Minimum Lot Area	5 acres	3 acres

Minimum Front Yard Setback	100 feet	87.9 feet
Minimum Rear Yard Setback	75 feet	51.6 feet
Maximum Impervious Surface Coverage	70%	79.4%

The Planning Board has taken into consideration the decision of the Town Zoning Board of Appeals, dated September 19, 2023, which granted an area variance relative to the side yard setback for the proposed addition, permitting 17.4 feet, where fifty (50) feet was required.

The Planning Board has taken into consideration the decision of the Town Zoning Board of Appeals, dated February 6, 2024, which granted an area variance relative to the side yard setback for the 50,000-gallon water storage tank, permitting 35.3 feet, where fifty (50) feet was required.

Town Code § 97-14(D)(6) requires that the minimum distance between curb cuts be at least 600 feet, “unless the configuration of a parcel in relation to adjoining parcels makes this requirement impossible to satisfy.” Town Code § 97-14(D)(6). In connection with this project, the Building Inspector has made the determination that the configuration of the parcels adjacent to and across from this property makes this requirement impossible to satisfy. This is a legally pre-existing nonconforming condition, and no variance from the Zoning Board of Appeals is necessary.

RESOLUTION OF APPROVAL

NOW, THEREFORE, the Planning Board of the Town of Goshen, New York hereby resolves to issue this Conditional Special Permit and Major Site Plan Approval to the I.W.S. Transfer Systems of N.Y., Inc. (a/k/a Goshen Transfer Station Upgrades) application, but only as specifically set forth on the plans, reports and other documents identified above, and as further conditioned as set forth below. The Chairperson is hereby authorized to sign such plans and other documents

evidencing this Approval only in strict accordance with all of the terms and conditions of this Resolution of Approval.

SPECIFIC CONDITIONS

1. This approval shall be subject to the current Chapter 80B solid waste management permit, and any subsequent amendments thereto, issued by the Town of Goshen Town Board.
2. The Applicant shall comply with the decisions of the Town Zoning Board of Appeals, dated September 19, 2023 and February 6, 2024.
3. No improvements on Section 12, Block 1, Lot 21.22 (now or formerly owned by Al Turi Landfill, Inc.) are being approved herein.
4. Prior to the signing of the plans, the Applicant shall:
 - a. Apply to the Town Board for an updated solid waste management permit pursuant to Chapter 80B of the Town Code. If it is determined that an updated permit is unnecessary, the Applicant shall provide correspondence from the Town Board in this regard.
 - b. Comply with the memorandum of the Town Engineer dated December 15, 2023, to the satisfaction of the Town Engineer.
 - c. Revise the plans to show the installation of bollards or pavement striping over the subsurface wastewater holding tank, to direct transfer trailers from driving over the tank.
5. Prior to any site disturbance, the Applicant shall identify in the field with appropriate signage, flagging and/or fencing the limits of disturbance to the satisfaction of the Building Inspector.
6. Prior to issuance of a Building Permit, the Applicant shall:

- a. Increase the sight distances along Hartley Road relative to this project to the greatest extent practical to the satisfaction of the Town Engineer, in consultation with the Town Traffic Consultant.
 - b. Obtain a driveway permit from the Town Highway Superintendent, and perform any improvements to the driveway required by the Town Highway Superintendent relative thereto.
7. Prior to the issuance of a Certificate of Occupancy, the Applicant shall:
 - a. Provide the Building Department with a report in connection with its field recognition of the stormwater drains, in connection with the abandonment of the 24-inch culvert along the northerly property line and the 36-inch culvert along the southerly property line.
8. The Applicant shall utilize imported off-site water to fill the proposed water storage tank.
9. If substandard sight distances will remain for the driveway, six (6) months and twelve (12) months following the issuance of a Certificate of Occupancy the Applicant shall provide the Building Department with an updated accident history. If, in the opinion of the Building Inspector, the volume or severity of the accidents increase, the Applicant shall return to the Planning Board for review and the implementation of additional mitigations.
10. All light levels must be limited to 0.1-foot candles at the property line so no offsite glare will result. The fixtures shall meet IDA, LEED or Green Globes criteria for Nighttime Friendly or Dark Sky lighting. Any wall pack fixtures shall include non-glare, full cut-off shields.
11. Tractor trailers shall not be permitted to exit the property directly from the proposed new building (from the south side of the existing building on the east side of the property). Instead, they shall be required to be taken by a yard jockey

to the north side of the existing building where they will be hooked to a cab before exiting from the north side of the existing building.

12. The Special Permit shall be subject to annual renewal by the Planning Board. The Town of Goshen Building Department shall inspect the premises annually after approval of this Special Permit.
 - a. On or about the anniversary date of this Special Permit, the Building Inspector shall submit a report to the Planning Board if he identifies any violations or complaints arising from the operation of this facility, and the Applicant shall appear before the Planning Board to address any such violations and/or complaints prior to renewal of the Special Permit.
 - b. The Building Department shall thereafter continue to inspect the premises on an annual basis prior to the expiration of each renewed term of the Special Permit to confirm compliance.
 - c. If no founded violations or complaints are noted by the Building Inspector in the first year, and the Building Department continues to find the Applicant in material compliance with the provisions of the Special Permit, then (provided that no other significant complaint or irregularity has come to the attention of the Planning Board), renewal of this Permit by the Planning Board shall, in each such year, be automatic and shall be accomplished without the need for a public hearing.
 - d. Should any material and continuing non-compliance be found by the Building Department at any time, or should any significant complaint or irregularity come to the attention of the Planning Board at any time, which has not been remedied to the reasonable satisfaction of the Building Department or Planning Board, as the case may be, within a reasonable period of time after the non-compliance or complaint is brought to the attention of the Applicant, then the matter shall be brought on by the Building Inspector for public

hearing before the Planning Board at which time said Board shall rule upon the application for renewal.

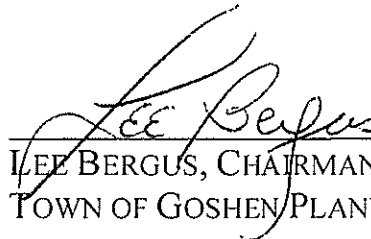
GENERAL CONDITIONS

1. This Resolution of Approval is further conditioned upon all other approvals that are needed by operation of federal, State or local laws, regulations and orders, whether or not noted above in the Specific Conditions of this Resolution, including, but not limited to the United States Army Corps of Engineers, New York State Department of Environmental Conservation, New York State Department of Health, Orange County Department of Health, the Town of Goshen Town Board, and compliance with the Town of Goshen Town Code and the New York State Uniform Fire Prevention and Building Code, and compliance with all federal, State and local regulations.
2. Except as otherwise provided in the Code, no deviation from the plans, reports or other documents that form the basis for this approval are effective unless and until an amendment to this Resolution is secured from the Planning Board in writing. The Town may stop work on this project, and/or revoke a building permit, and/or withhold a certificate of occupancy, and/or seek any other additional relief as authorized by law, if any term or condition of this Resolution is violated.
3. All fees regarding this Application must be paid in full, including all application fees, other fees required by the Town Code, and the fees of the Planning Board consultants, including all engineering, planning, and legal fees. All bonds or other security required by this Resolution shall be submitted in a timely manner as required by the Town Code or Building Inspector. No building permit may be issued by the Building Inspector unless

and until such fees have been paid in full and such bonds or other security shall have been filed with the Town.

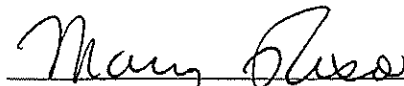
4. No changes, erasures, modifications, or revisions to the plans shall be made after approval has been given by the Planning Board, unless the plan is first resubmitted to the Planning Board and the Planning Board approves such modifications.
5. Within six months after receiving approval of a site plan, with or without modifications, the Applicant shall submit multiple copies of the site plan to the Planning Board for stamping and signing. A site plan approval shall expire if the Applicant fails to obtain necessary building permits or fails to comply with the conditions of the site plan approval within eighteen (18) months of its issuance.
6. Pursuant to the Town Code, a special permit shall expire if (i) the special permit use ceases for more than 24 consecutive months for any reason, (ii) the applicant fails to obtain the necessary building permits or fails to comply with the conditions of the special permit within 12 months of its issuance, or (iii) its time limit expires without renewal, if applicable.

IN FAVOR: LEE BERGUS, PHIL DROPKIN, DIANA LUPINSKI, JEREMY
ZWEIG, GIOVANNI PIRRAGLIA
AGAINST: 0
ABSTENTIONS: NEAL HALLORAN (RECUSED)
ABSENT: MARTIN HOLMES, ERIC FUENTES, SEAMUS WEIR
DATE OF APPROVAL: FEBRUARY 29, 2024
DATE OF SIGNATURE: MARCH 7, 2024



LEE BERGUS, CHAIRMAN
TOWN OF GOSHEN PLANNING BOARD

I, MARY RISO, Town Clerk, do hereby certify that the foregoing Resolution was filed in the Office of the Town Clerk on March 8, 2024, and a copy mailed to the Applicant.

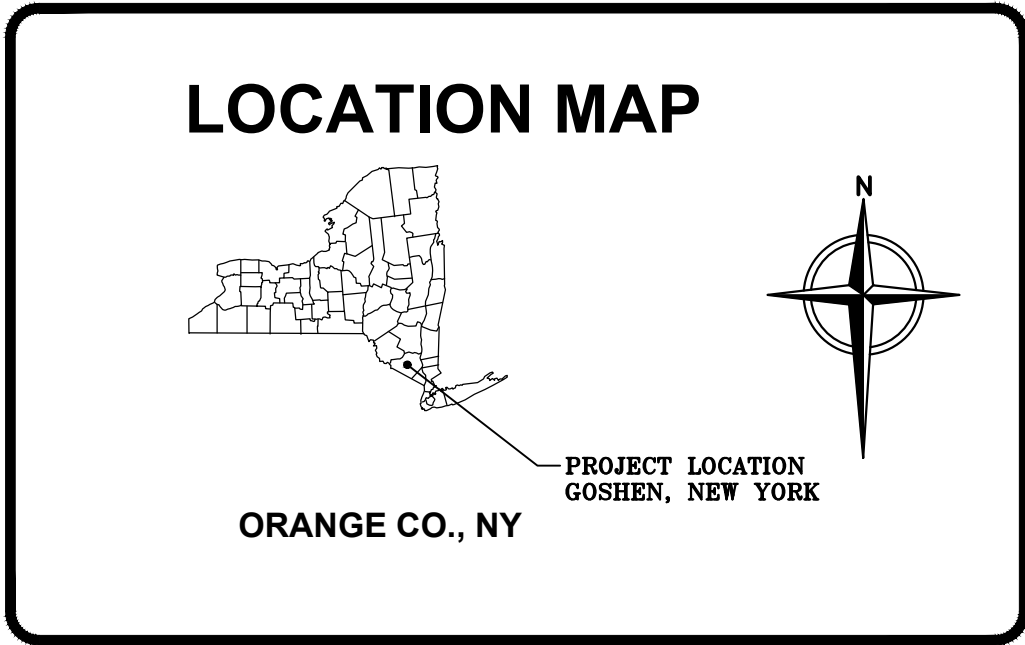
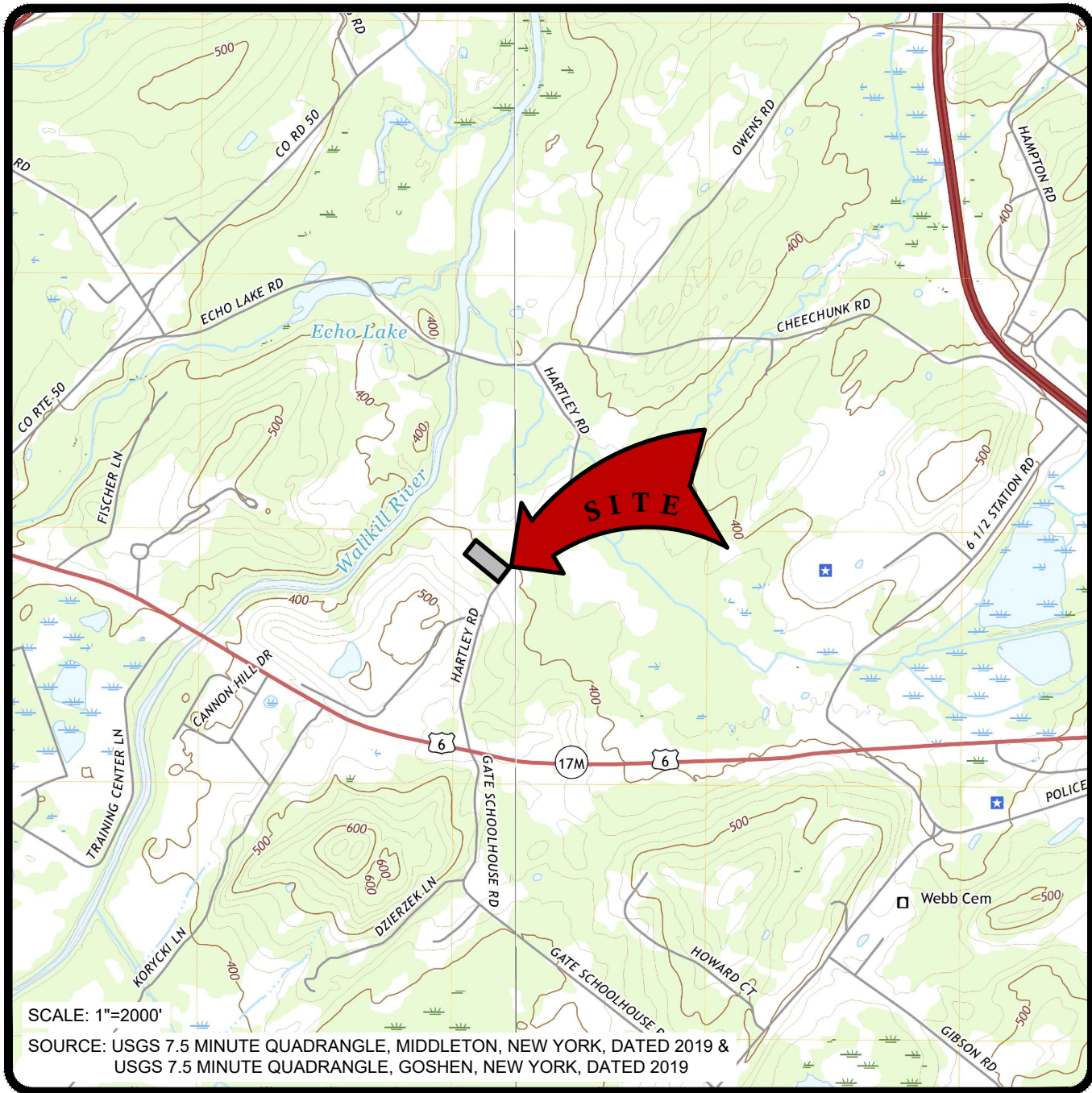


MARY RISO, TOWN CLERK
TOWN OF GOSHEN, NEW YORK

SITE PLAN APPLICATION DRAWINGS
FOR THE
I.W.S. TRANSFER SYSTEMS OF N.Y., INC.
GOSHEN - TRANSFER STATION UPGRADES

PREPARED FOR
I.W.S. TRANSFER SYSTEMS OF N.Y., INC.
95 HARTLEY ROAD, GOSHEN, NEW YORK

FEBRUARY 2023
REVISED MAY 2023
REVISED JUNE 2023
REVISED NOVEMBER 2023



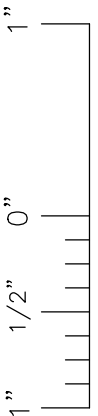
PREPARED BY: CORNERSTONE ENGINEERING AND GEOLOGY, PLLC

100 CRYSTAL RUN ROAD
SUITE 101
MIDDLETOWN, NEW YORK 10941
Tel: (877) 294-9070
Fax (845) 692-5894

APPLICANT:
I.W.S. TRANSFER SYSTEMS OF N.Y., INC.
95 HARTLEY ROAD, GOSHEN, NEW YORK 10924

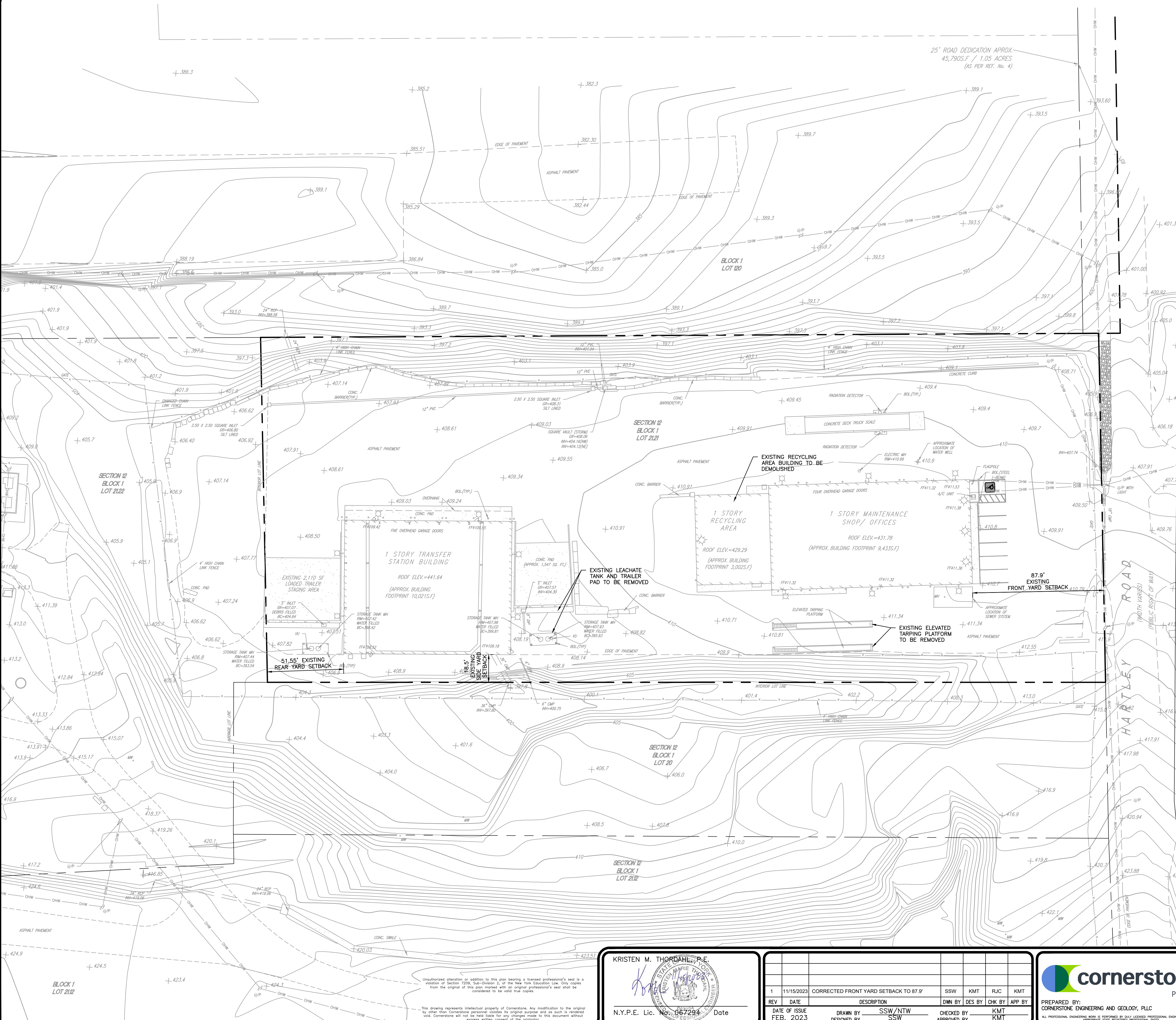
INDEX OF DRAWINGS

1	COVER SHEET
2	EXISTING SITE CONDITIONS
3	SITE PLAN
4	TRANSFER BUILDING ELEVATIONS
5	SOIL EROSION AND SEDIMENT CONTROL PLAN
6	SITE LIGHTING PLAN
7	SITE DETAILS
8	SOIL EROSION AND SEDIMENT CONTROL DETAILS



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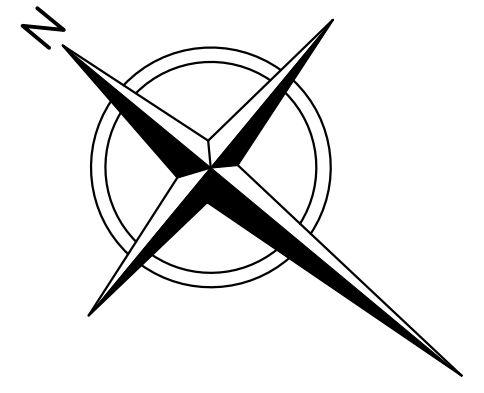
1" = 1/2" 0" 1"
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- LEGEND:**
- PROPERTY LINE (TAX MAP) - SEE NOTES
 - ADJACENT LOT LINE (SURVEY)
 - EXISTING MINOR CONTOURS
 - EXISTING MAJOR CONTOURS (AS LABELED)
 - EXISTING EDGE OF PAVEMENT
 - EXISTING EDGE OF GRAVEL
 - EXISTING BUILDING TO BE DEMOLISHED
 - EXISTING BUILDING MOUNTED LIGHTS
 - EXISTING ROOF MOUNTED LIGHTS

- NOTES:**
- SITE BOUNDARY & TOPOGRAPHIC SURVEY, LOT 17.32, 20, 21.21 & 21.22 OF BLOCK 1, PORTIONS OF LOTS 18, 21.12, 112 & 120 OF BLOCK 1, TOWN OF GOSHEN, ORANGE COUNTY, NEW YORK. SHEET 1 OF 1, DATED 6/17/2022, BY DRESDNER ROBIN OF JERSEY CITY, NEW JERSEY.
 - HORIZONTAL DATUM BASED UPON NY E NAD 1983 (US SURVEY FEET).
 - VERTICAL DATUM BASED UPON NYGEOD 12 GRS80 (US SURVEY FEET).

0 30 60
SCALE IN FEET



KRISTEN M. THORNDALH, P.E.



N.Y.P.E. Lic. No. 067294 Date

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	11/15/2023	CORRECTED FRONT YARD SETBACK TO 87.9'	SSW	KMT	RJC	KMT
2	FEB. 2023	DATE OF ISSUE	DRAWN BY	SSW/NTW	CHECKED BY	KMT
		DESIGNED BY	SSW	APPROVED BY		

cornerstone PLLC

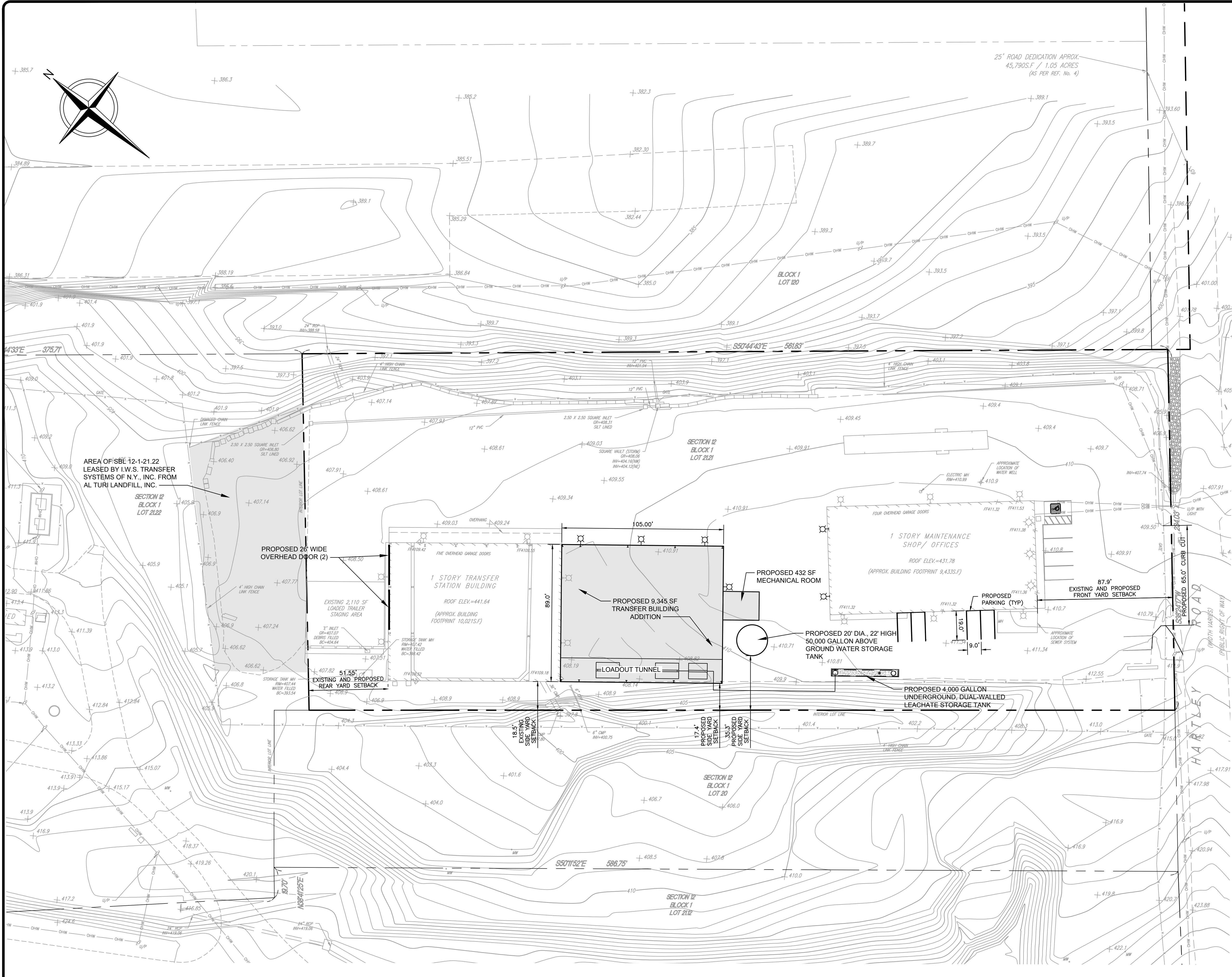
PREPARED BY:
CORNERSTONE ENGINEERING AND GEOLOGY, PLLC

ALL PROFESSIONAL ENGINEERING WORK IS PERFORMED BY FULLY LICENSED PROFESSIONAL ENGINEERS UNDER THE APPROPRIATE STATE REGISTERED PROFESSIONAL ENTITY.

I.W.S. TRANSFER SYSTEMS OF N.Y., INC.
GOSHEN - TRANSFER STATION UPGRADES
95 HARTLEY ROAD, GOSHEN, NEW YORK

EXISTING SITE CONDITIONS

SHEET NO.
2
PROJECT NO.
4223429



LEGEND:	
	PROPERTY LINE (TAX MAP) - SEE NOTES
	PROPOSED PROPERTY LINE
	ADJACENT LOT LINE (SURVEY)
	EXISTING MINOR CONTOURS
	EXISTING MAJOR CONTOURS (AS LABELED)
	EXISTING EDGE OF PAVEMENT
	EXISTING EDGE OF GRAVEL
	PROPOSED BUILDING ADDITION
	EXISTING BUILDING TO BE DEMOLISHED
	EXISTING BUILDING MOUNTED LIGHTS
	EXISTING ROOF MOUNTED LIGHTS
	PROPOSED BUILDING MOUNTED LIGHTS

- NOTES:**
- SITE BOUNDARY & TOPOGRAPHIC SURVEY, LOT 17.32, 20, 21.21 & 21.22 OF BLOCK 1, PORTIONS OF LOTS 18, 21.12, 112 & 120 OF BLOCK 1, TOWN OF GOSHEN, ORANGE COUNTY, NEW YORK. SHEET 1 OF 1, DATED 6/17/2022, BY DRESNER ROBIN OF JERSEY CITY, NEW JERSEY.
 - HORIZONTAL DATUM BASED UPON NY E NAD 1983 (US SURVEY FEET).
 - VERTICAL DATUM BASED UPON NYGEOID 12 GRS80 (US SURVEY FEET).

ZONING CONFORMANCE TABLE				
INDUSTRIAL ZONE	REQUIRED	EXISTING	PROPOSED	VARIANCE
MINIMUM LOT AREA	217,800 S.F.	130,689 S.F.	130,689 S.F.	PRE-EXISTING
MINIMUM ROAD FRONTAGE	200 FT.	234 FT.	234 FT.	N.A.
MINIMUM FRONT YARD	100 FT.	87.9 FT.	87.9 FT.	PRE-EXISTING
MINIMUM SIDE YARD	50 FT.	18.5 FT.	17.4 FT.	GRANTED BY ZBA ON 9/19/2023
MINIMUM REAR YARD	75 FT.	51.6 FT.	51.6 FT.	PRE-EXISTING
MAXIMUM IMPERVIOUS COVERAGE	70%	79.4%	79.4%	PRE-EXISTING
MAXIMUM BUILDING HEIGHT	45 FT.	34 FT.	34 FT.	N.A.

- NOTE:**
- PROPOSED DIMENSIONS ARE BASED UPON LOT 21.21 IN SECTION 12, BLOCK 1.

BUILDING COVERAGE TABLE		
BUILDING	EXISTING (SQ. FT.)	PROPOSED (SQ. FT.)
OFFICE / MAINTENANCE BUILDING	9,433	9,433
RECYCLING AREA BUILDING	3,000	-
TRANSFER STATION BUILDING	10,000	10,000
PROPOSED TRANSFER STATION BUILDING ADDITION	-	9,345
PROPOSED MECHANICAL ROOM	-	432
TOTAL BUILDING SQUARE FOOTAGE	22,433	29,210
PERCENT INCREASE = $\frac{(29,210 - 22,433)}{22,433} = 30\%$		

PARKING CALCULATION TABLE					
PARKING REQUIREMENTS			EXISTING PARKING SPACES	PROPOSED PARKING SPACES	VARIANCE
OFFICES	3 SPACES / 1,000 SF	5,830 SF = 18 SPACES	9 SPACES	11 SPACES	REQUIRED
INDUSTRIAL / WAREHOUSE	2 SPACES / 1,000 SF OF ENCLOSED FLOOR SPACE OR 1 SPACE PER EMPLOYEE	7 EMPLOYEES = 7 SPACES			

Unauthorized alteration or addition to this plan bearing a licensed professional's seal is a violation of Section 7209, Sub-Division 2, of the New York Education Law. Only copies from the original of this plan marked with an original professional's seal shall be considered to be valid true copies.

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KRISTEN M. THORDAHL, P.E.

N.Y.P.E. Lic. No. 087294 Date

4	12/22/2023	ADDED DATE SIDEYARD SETBACK VARIANCE	SW	KMT	RJC	KMT
3	11/15/2023	ADDRESSED 5/26/2023 COMMENTS FROM PB ENG.	SW	KMT	RJC	KMT
2	5/18/2023	ADDRESSED 3/14/2023 COMMENTS FROM PB ENG.	SW	KMT	RJC	KMT
1	2/23/2023	ADDRESSED 12/31/2022 COMMENTS FROM PB ENG.	SW	KMT	RJC	KMT
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
				SSW/NTW		
				SSW		
					KMT	

PREPARED BY:
CORNERSTONE ENGINEERING AND GEOLOGY, PLLC

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I.W.S. TRANSFER SYSTEMS OF N.Y., INC.
GOSHEN - TRANSFER STATION UPGRADES
95 HARTLEY ROAD, GOSHEN, NEW YORK

SITE PLAN

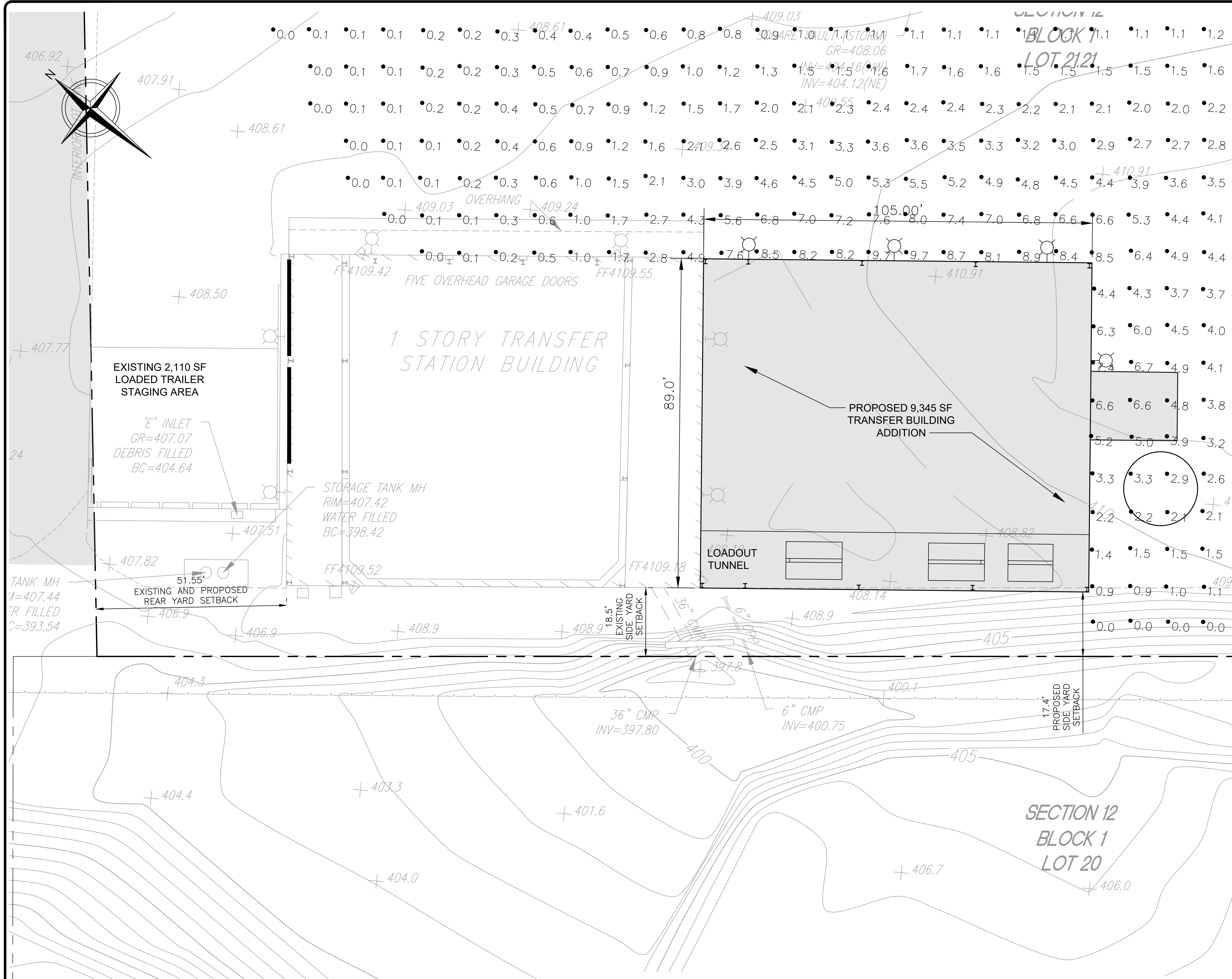
SHEET NO.

3

PROJECT NO.
4223429

1" = 12' 0"

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- LEGEND:**
- PROPERTY LINE (TAX MAP) - SEE NOTES
 - PROPOSED PROPERTY LINE
 - ADJACENT LOT LINE (SURVEY)
 - EXISTING MINOR CONTOURS
 - EXISTING MAJOR CONTOURS (AS LABELED)
 - EXISTING EDGE OF PAVEMENT
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 - PROPOSED BUILDING ADDITION
 - EXISTING BUILDING MOUNTED LIGHTS
 - EXISTING ROOF MOUNTED LIGHTS
 - PROPOSED BUILDING MOUNTED LIGHTS

ELECTRICAL FIXTURE SCHEDULE						
DESIGNATION	MANUFACTURE	CATALOG #	SOURCE	LUMENS	WATTS	VOLTAGE
☼	LED LIGHTING SUPPLY	MLLG-LED-SBH02-150-T3	LED	24,000	150	100-277

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KRISTEN M. THORNDALH, P.E.

N.Y.P.E. Lic. No. 067294 Date

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	11/15/2023	ADDED MECHANICAL ROOM	SSW	KMT	RJC	KMT
DATE OF ISSUE		DESIGNED BY	SSW/NTW	CHECKED BY	KMT	APPROVED BY
FEB. 2023		DESIGNED BY	SSW	APPROVED BY	KMT	

cornerstone
PLLC

PREPARED BY:
CORNERSTONE ENGINEERING AND GEOLOGY, PLLC

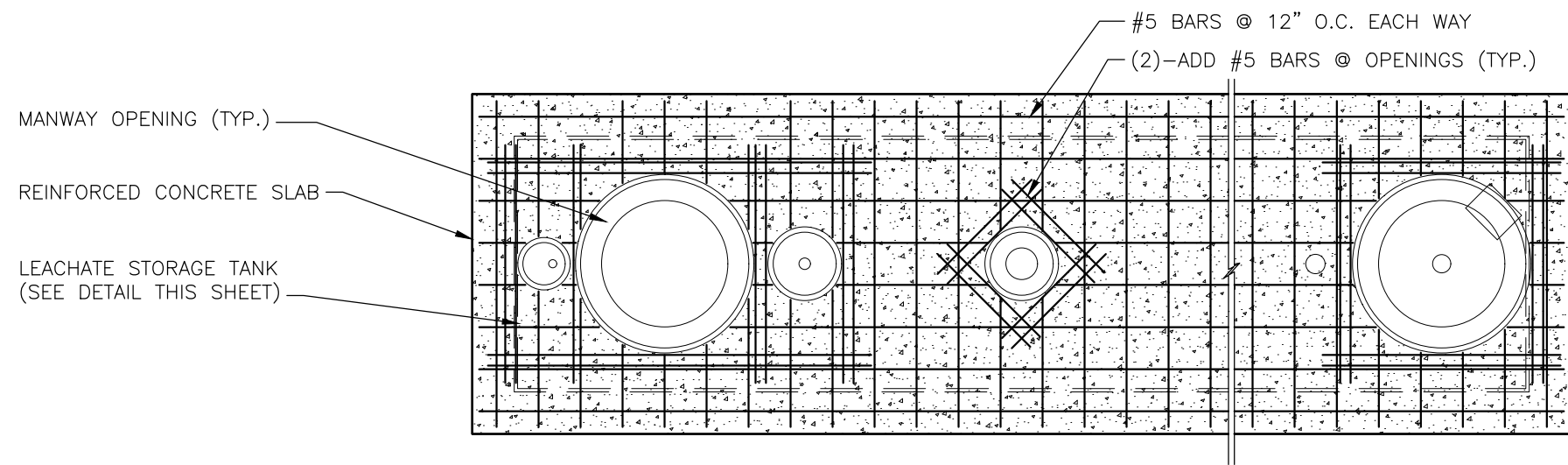
ALL PROFESSIONAL ENGINEERING WORK IS PERFORMED BY FULLY LICENSED PROFESSIONAL ENGINEERS UNDER THE APPROPRIATE STATE REGISTERED PROFESSIONAL ENTITY.

I.W.S. TRANSFER SYSTEMS OF N.Y., INC.
GOSHEN - TRANSFER STATION UPGRADES
95 HARTLEY ROAD, GOSHEN, NEW YORK

SITE LIGHTING PLAN

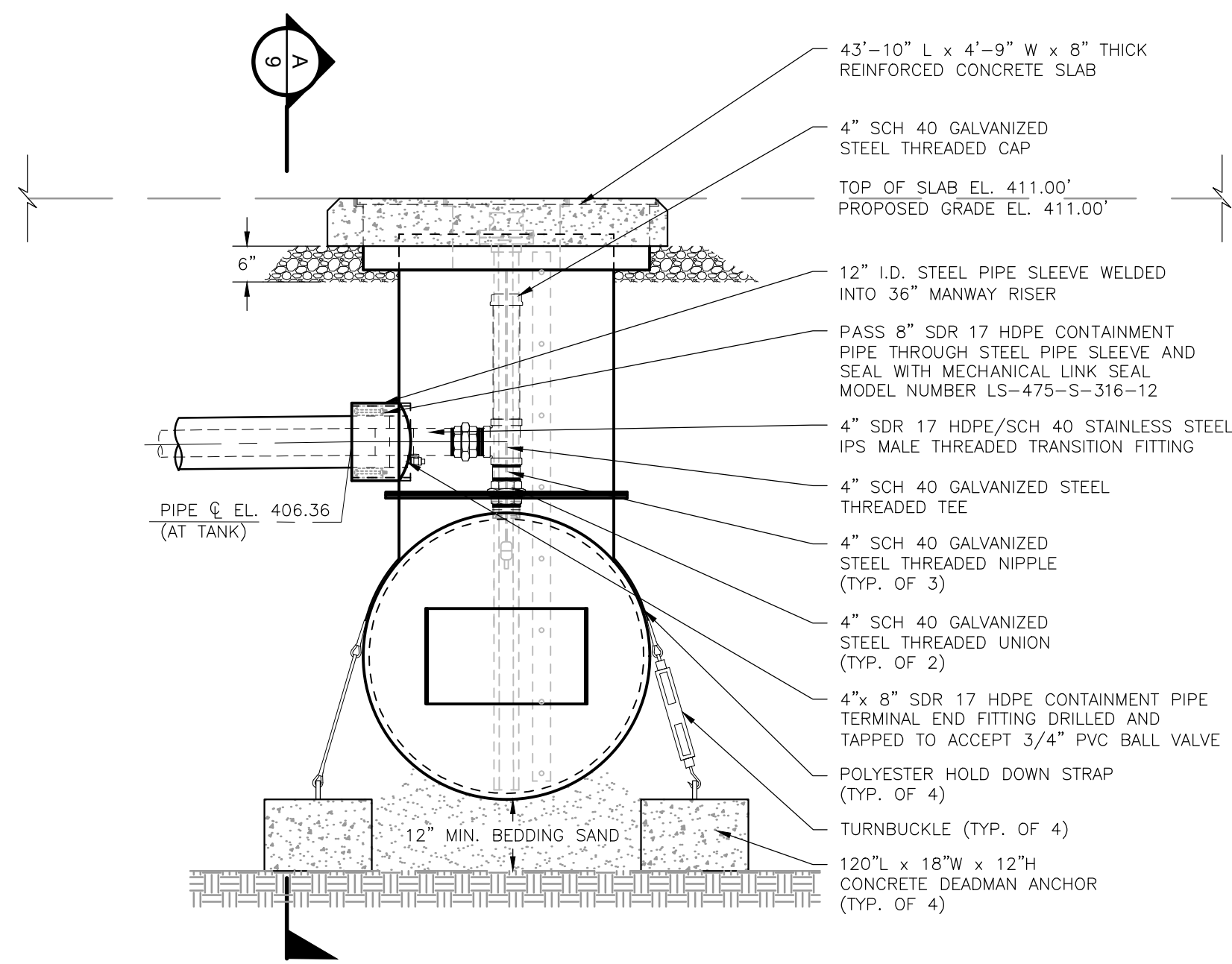
SHEET NO.
6

PROJECT NO.
4223429



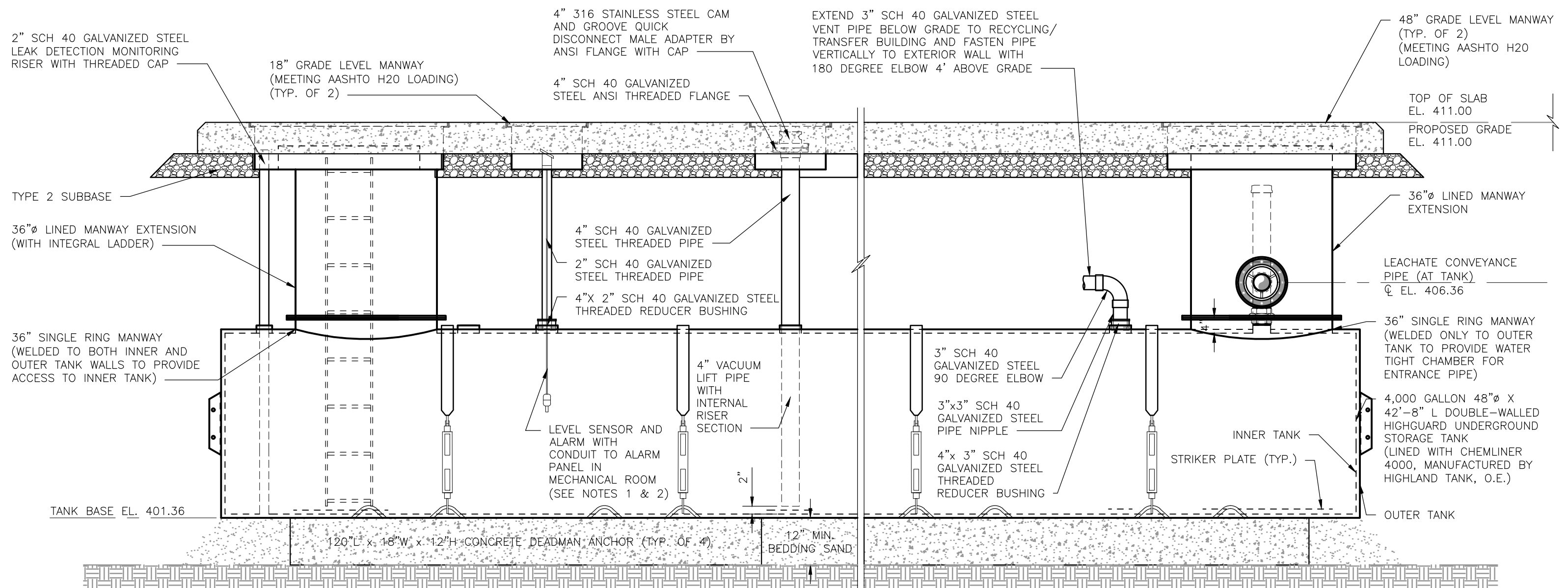
LEACHATE STORAGE TANK
REINFORCED CONCRETE SLAB PLAN

DETAIL
SCALE: NOT TO SCALE



4,000 GALLON DOUBLE-WALLED
UNDERGROUND LEACHATE STORAGE TANK

SECTION
SCALE: 1"= 2'

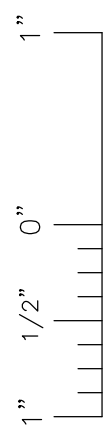


NOTES:

1. LEVEL SENSOR TO BE SERIES HTF STANDARD TWO FLOAT SENSOR (AS MANUFACTURED BY HIGHLAND TANK, O.E.). INITIAL FLOAT TO BE INSTALLED AT AN ELEVATION TO TRIGGER A LEVEL ALARM WHEN THE LIQUID LEVEL IN THE TANK REACHES APPROXIMATELY 75% OF TANK CAPACITY BY VOLUME. SECOND FLOAT TO BE INSTALLED AT AN ELEVATION TO TRIGGER A HIGH LEVEL ALARM WHEN THE LIQUID LEVEL IN THE TANK REACHES APPROXIMATELY 90% OF TANK CAPACITY BY VOLUME.
2. LEVEL SENSOR TO BE CONNECTED TO TWO CHANNEL ALARM PANEL, MODEL HTAP-2 (AS MANUFACTURED BY HIGHLAND TANK, O.E.). SEE E1.1 FOR MOUNTING LOCATION AND DETAILS.
3. REINFORCED CONCRETE SLAB FOR LEACHATE STORAGE TANK TO BE REINFORCED WITH #5 BARS @ 12" O.C. EACH WAY, WITH TWO (2) ADDITIONAL #5 BARS AROUND OPENINGS. SEE DETAIL THIS SHEET FOR SIMILAR LAYOUT.

4,000 GALLON DOUBLE-WALLED
UNDERGROUND LEACHATE STORAGE TANK

SECTION
SCALE: 1"=2'



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KRISTEN M. THORP, P.E.
N.Y.P.E. Lic. No. 067294 Date

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
	NOV. 2022	SSW/NTW				
		DESIGNED BY				
		SSW				
		CHECKED BY				
		APPROVED BY				

cornerstone
PLLC

PREPARED BY:
CORNERSTONE ENGINEERING AND GEOLOGY, PLLC

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I.W.S. TRANSFER SYSTEMS OF N.Y., INC.
GOSHEN - TRANSFER STATION UPGRADES
95 HARTLEY ROAD, GOSHEN, NEW YORK

SITE DETAILS

SHEET NO.
7
PROJECT NO.
4223429