

Former Marble Quarry Landfill
109 Marbledale Road
Tuckahoe, New York

NYSDEC Brownfield Cleanup Program #C360143

Community Meeting #5

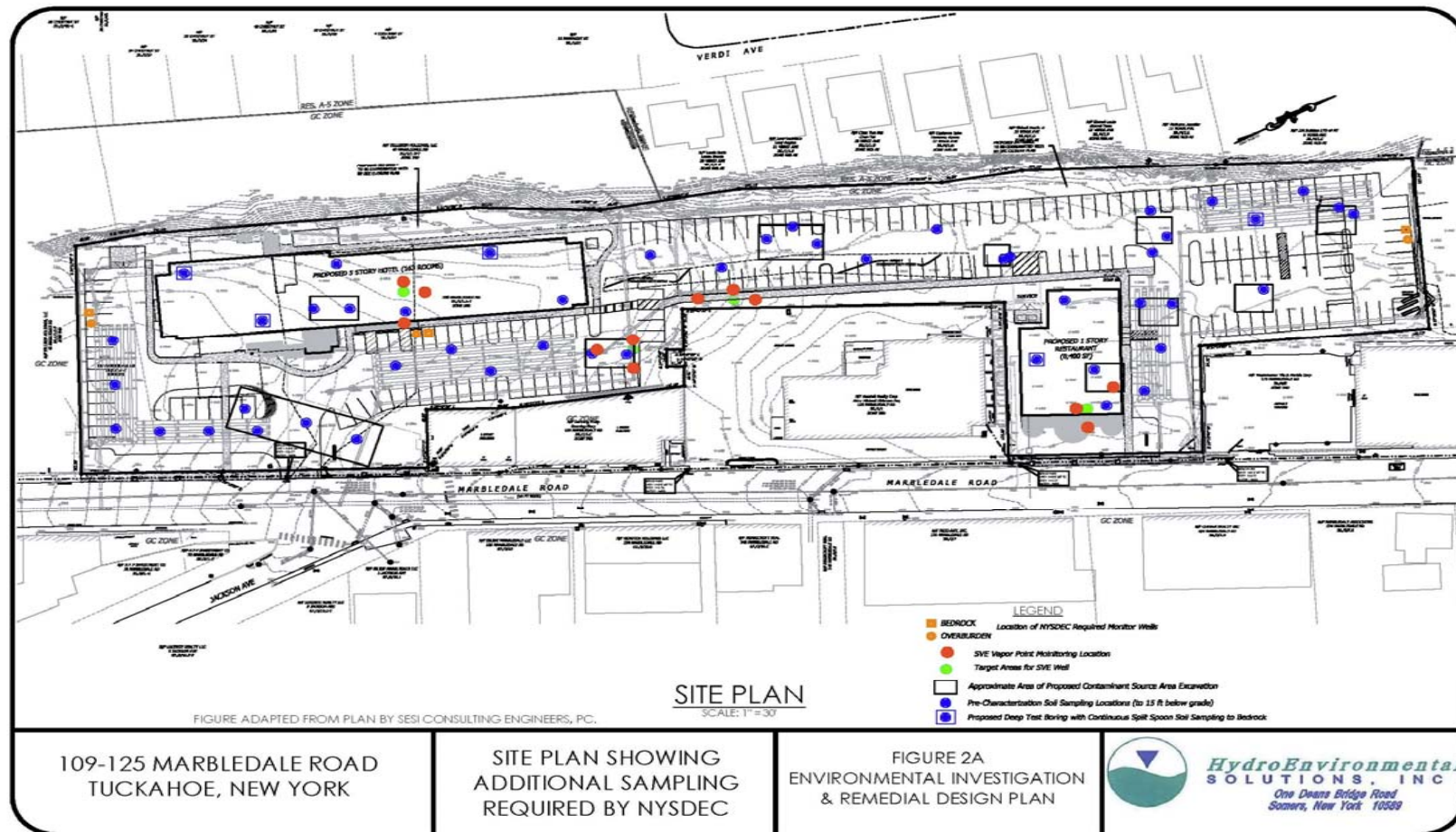
January 25, 2017



HydroEnvironmental
SOLUTIONS, INC.

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Site Plan Showing Supplemental Environmental Work



Site Preparation

Completed to date:

- Installation of SWPPP measures, which will include haybales and silt fencing.
- Installation of truck tracking pads at the site entrances.
- Installation of the truck cleaning station.
- Clearing of all site vegetation.
- On-site construction trailer and utilities have been installed.

To be completed:

- Staging of on-site dust suppression measures including a water tank/truck, foam and foaming machine, fractionation tank, polyethylene sheeting and construction of soil stockpile enclosures.

Source Area 2 Removal

- First source area to be removed is SA-2, which is located within the hotel footprint.
 - Source Area 2 is approximately 20-feet wide, 36-feet long and 15-feet deep for a total volume of approximately 400 cubic yards to be removed.
- Removed soils are scheduled to go to Clean Earth of Carteret, located in Carteret, New Jersey.
- CAMP monitoring will be in place during all invasive earth moving activities on-site.
- In accordance with the approved RAWP, excavation end-point soil samples will be collected and analyzed for VOCs, SVOCs, PCBs, TAL Metals and pesticides.

Source Area 2 Removal (continued)

- End-point soil results must comply with commercial soil clean-up objectives (CSCOs).
- If end-point soil sampling results do not meet CSCOs, additional excavation may be required and warranted, however, it is assumed that excavation completion depths will not exceed 15 feet below grade (extent of backhoe and proposed subsurface structures).
- Excavations will be secured using fencing and covered in polyethylene sheeting and/or foam as required for odor and dust suppression purposes.
- A contingency plan is in place to properly deal with the possibility of encountering unknown drums, tanks or cylinders.

Source Area 2 Removal (continued)

- A comprehensive Scope of Work has been compiled for Source Area 2 Removal.
- The Scope of Work has been reviewed and will be approved by the NYSDEC before any source removal work is conducted. NYSDEC and HDR revisions have been added to the Scope of Work.
- Source Area 2 removal anticipated start-up is January 26, 2017.

Remaining Source Areas

- A comprehensive Scope of Work will be compiled for Source Areas 1, 3 through 10 Removal.
- The Scope of Work for these areas will be reviewed and approved by the NYSDEC before any source removal work is conducted.
- Following the removal of SA-2, the remaining source areas will be scheduled for removal, starting with SA-1 and moving North across the site until all source area material is removed.
- The procedures outlined for SA-2 will be followed for all source area removals after NYSDEC approval.

Supplemental Environmental Work Technical Report to be Completed

Compile Supplemental Environmental Investigation Report – Report compilation is on-going and will include:

- Summary Data Tables for soil, groundwater and soil vapor.
- Groundwater elevation contour maps for shallow overburden and bedrock aquifers.
- Geologic Logs, monitor well and SVE well construction details.
- Summary of collected field parameters including PID and FID readings, groundwater field chemistry and CAMP air monitoring results.
- Collected data will be interpreted and used to further define Source Area removal and assist in the design of the site wide cap.

Soil Vapor Extraction System Design and Report

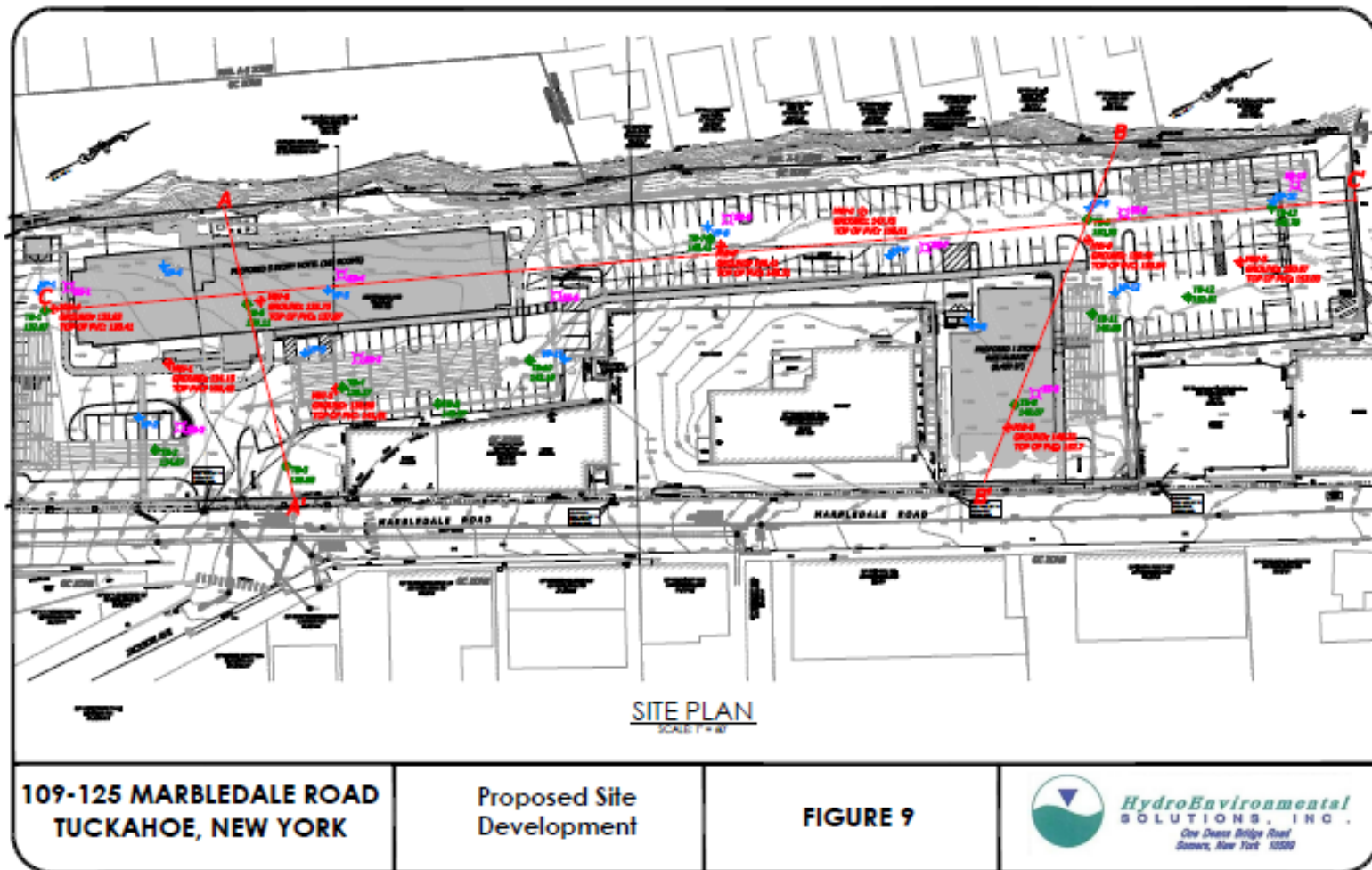
- SVE pilot testing data including air flow volume, velocity, induced vacuum and VOC air quality data will be used to design an appropriate soil vapor extraction system for the site.
- The SVE Design Report will include air quality summary tables, collected field data summary tables (ex. Induced Vacuum), radius of influence maps and iso-concentration maps.
- The SVE Design Report will be submitted to the NYSDEC for final review and approval.

Proposed Future Construction Work – Order of Operations

Projected Startup Date – January 9, 2017

1. Data compilation and review to determine if any modifications to the Work Plan are necessary regarding excavation and soil moving/CAMP. NYSDEC and HDR review of foundation plan and to confirm Resolution is being followed.
2. Clear and Prepare Site.
3. Excavate and Dispose of Source Material Areas at off-site Disposal Facility.
4. Install Site Utilities, Stormwater Retention Systems and SVE System(s). Design SVE/SSDS, review and approval of same by NYSDEC.
5. Implement Site-Wide Cut and Fill Plan.
6. Second round of groundwater sampling (following installation of foundation piles).
7. Foundation and Geotechnical Assessment – Carlin Simpson Geotechnical Engineer has replaced dynamic compaction concept.
8. Install Building Foundations – Hotel and Restaurant.
9. Install Vegetative and Engineered Site Wide Caps.
10. Third round of groundwater sampling (following completion of site wide caps).

Proposed Future Site Development



Thank You for Attending the Tuckahoe
Community Meeting Related to the
Marbledale BCP Site!

Questions?

