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**Date:** 10/21/2010 2:56 PM  
**Subject:** Statement of Work - So. Hill Dump Test Pitting  
**Attachments:** Test Pitting SOW\_2010-1019.doc; RD-C-101 EXISTING CONDITIONS FOR SOW.pdf

Dave

Attached is the test pitting statement of work for South Hill Dump. Let us know if you have any questions.  
Will you want MACTEC to provide oversight of the test pitting? - we estimate a one-to-two day effort.

mark

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**TEST PITTING SERVICES  
SCOPE OF WORK  
for  
South Hill Dump Site, South Hill Road, Cortlandville, New York  
NYSDEC Site No. 712009**

Test pitting services are required as a pre-design investigation in support of the remedial design for the South Hill Dump Site located on South Hill Road in Cortlandville, New York. The terms and conditions of the contract between the New York State Department of Environmental Conservation (NYSDEC) and the selected Contractor shall govern the performance of the test pitting services described in this Scope of Work (SOW).

**PROJECT DESCRIPTION**

Location of a majority of the existing solid waste boundary was completed by MACTEC Engineering and Consulting, Inc. (MACTEC) by geophysical and electromagnetic methods in the fall of 2009. These locations are marked with pink pin flags (still identifiable in the field as of October 14, 2010) and surveyed. The existing solid waste boundary is shown on Drawing C-101: "Existing Conditions" based on these locations. Locations noted as EM 1 and EM 41 mark the end points of the geophysical/electromagnetic survey.

Geophysical/electromagnetic methods along the South Hill Road right-of-way are not possible due to chain-link fencing and steel culvert interferences. Test pitting has been selected as the method of delineation for the limit of solid waste buried along the existing northwest solid waste boundary.

**SITE DESCRIPTION**

The Site is an approximate 10.8-acre parcel located 2.6 miles south of the Village of McGraw center on the south side of South Hill Road. Approximate geographic location is 42°33'41.43"N, 76° 4'36.79"W. The northwest perimeter of the landfill is approximately 370 feet along the right-of-way of South Hill Road. This 370 foot landfill boundary requires test pitting to locate the limit of buried solid waste for delineation of the existing solid waste boundary. The current boundary along South Hill Road depicted on the "Existing Conditions" drawing is only an estimation assumed to be aligned with the existing top of bank along the road.

**SCOPE OF WORK**

In support of the remedial design, the Contractor shall complete test pits at approximately 50 feet on center along the 370 foot northwest perimeter of the landfill for an estimated total of nine (9) test pits. Locations shall be approved by the NYSDEC-designated oversight representative and shall be selected to minimize disturbances to existing site features and removal of trees. The Contractor shall supply all labor and furnish all materials, supplies, tools and equipment, and all consumable items that are required to complete the following tasks:

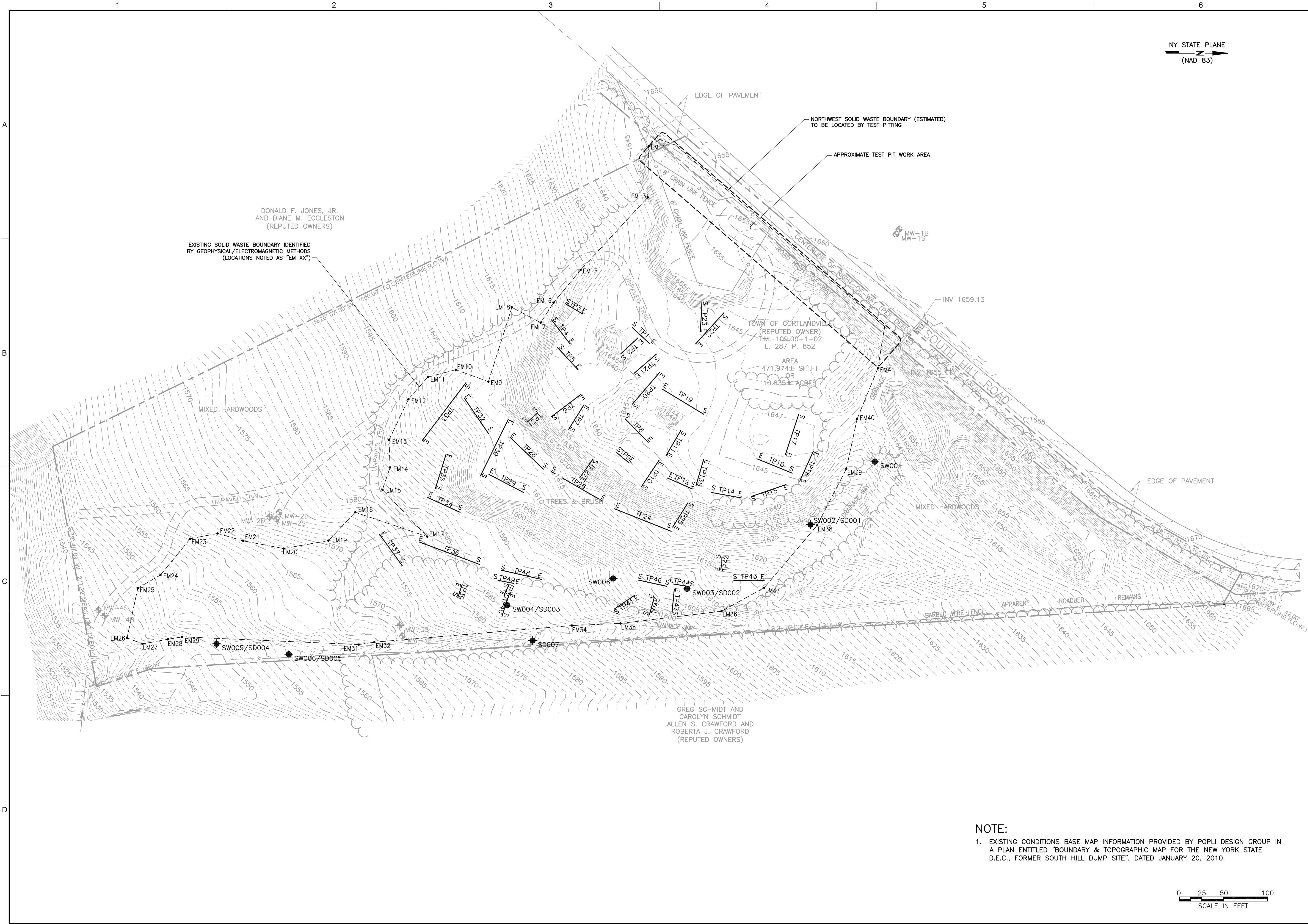
1. Develop a Health and Safety Plan (HASP) specific to the work and hazards associated with excavating test pits within a solid waste landfill. The landfill is known to contain some buried drums which may contain hazardous wastes, although previous investigations have not identified any drums in the area of the proposed test pitting. Practice work means and methods consistent with the requirements of the HASP.

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2. Call Dig Safely New York to coordinate underground utility identification and mark outs in the vicinity of the work area. Employ a private utility location company to provide additional location services on the landfill property as required. New York Telephone underground telephone line is known to exist within the right-of-way of South Hill Road.
3. Secure all required permits with the Town of Cortlandville for work in the public right-of-way including the Cortlandville Highway Permit required by the Town of Cortlandville Highway Department.
4. Support the NYSDEC-designated oversight representative in their role of reviewing the work performed by the Contractor on behalf of NYSDEC. The representative will make final determinations of limit of waste locations and will approve location and number of test pits.
5. Excavate a shallow test pit with a backhoe/excavator beginning at the bottom of the slope of the road embankment. Proceed in the following manner:
  - a. Excavate to a maximum depth of five (5) feet at the location approved by the NYSDEC-designated oversight representative.
  - b. If no waste identifiable as metal, tires, mixed municipal solid waste, or similar materials are encountered in the test pit, continue to excavate the trench in a southerly direction approximately 3 feet deep toward the center of the landfill. When waste or traces of waste are encountered, excavate to a maximum depth of 5 feet to determine the vertical extent of the waste and a maximum of 5 feet horizontally beyond the location in both directions to confirm continuous waste.
  - c. If waste identifiable as metal, tires, mixed municipal solid waste, or similar materials are encountered in the test pit, continue to excavate the trench in a northerly direction approximately 3 feet deep toward South Hill Road. When waste or traces of waste are no longer evident, excavate to a maximum depth of 5 feet to confirm the vertical extent of the waste and a maximum of 5 feet horizontally beyond the location in both directions to confirm no additional buried waste exists.
    - i. Test pitting within the road embankment shall be performed in a manner that does not cause undermining of the pavement or risk to the stability of the road.
    - ii. Test pitting within the road embankment shall be performed in a manner that does not cause damage to existing buried utilities.
  - d. Proceed to the next location taking into consideration the identified waste limit of the previous location.
6. Record a test pit log for each test pit describing the horizontal and vertical extents of the test trench and the observed findings including type of waste encountered and location (vertical and horizontal).
7. Mark the location determined to be the limit of buried waste with a stake, pin flag or similar and label in a manner that can be identified and surveyed by others at a later date.



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8. Backfill the excavated test pit trench taking care to place waste material in the trench first followed by excavated cover soils.
9. Stockpile any brush, tree limbs or other cleared materials within the landfill limit outside of the road right-of-way.
10. If a buried waste drum or drum carcass/remnant is encountered, stop excavation, backfill, mark location as “buried drum”, and select an adjacent location for excavation. Notify the NYSDEC-designated oversight representative of any drums/drum remnants encountered during test pitting.



NOTE:

1. EXISTING CONDITIONS BASE MAP INFORMATION PROVIDED BY POPLI DESIGN GROUP IN A PLAN ENTITLED "BOUNDARY & TOPOGRAPHIC MAP FOR THE NEW YORK STATE D.E.C., FORMER SOUTH HILL DUMP SITE", DATED JANUARY 20, 2010.

 MACTEC Engineering and Consulting, Inc. P.O. Box 7050, 511 Congress Street Portland, ME 04106 (207) 775-5401	 REMEDIAL DESIGN SOUTH HILL DUMP SITE SOUTH HILL ROAD CORTLANDVILLE, NEW YORK NYSDEC SITE NUMBER 712009	DATE		NO.		REVISION		APVD		M.J. STELMACK	
		09/03/10		A		30% SUBMITTAL TO NYSDEC		BY		JPM	
		04/16/10		A		30% SUBMITTAL TO NYSDEC		BY		JPM	
		09/03/10		B		DRAFT FINAL TO NYSDEC		BY		JPM	
VERIFY SCALE		DATE		PROJ		DWG		SHEET		3 OF 13	
BAR IS ONE INCH ON ORIGINAL DRAWING		09/03/2010		3612-09-2133		C-101		3		OF 13	