

POLLUTION CONTROL FINANCING AUTHORITY  
OF WARREN COUNTY

**INVITATION FOR QUOTATION**

SPECIFICATIONS FOR TOPOGRAPHIC SURVEY  
OF  
THE WARREN COUNTY DISTRICT LANDFILL

January 2010

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**INVITATION FOR QUOTATIONS**

Notice is hereby given that sealed quotations will be received by the Pollution Control Financing Authority of Warren County, New Jersey for Topographic Survey of the Warren County District Landfill.

The quotation submission shall be enclosed in a sealed envelope bearing the legend:

**QUOTATION FOR  
Topographic Survey for  
The Warren County District Landfill**

**Object:** To obtain topographic data suitable for analysis and submission to the New Jersey Department of Environmental Protection as directed in Permit No. 2123D1SP01, and as provided by NJDEP Regulations 7.26-2A.8, page 26-94, 26-95 of Supplement 12/16/96 (see attached Appendix A): and NJDEP Regulations 7.26-2A.8 page 26-93 of supplement 12/16/96 (See attached Appendix B).

**Location:** Warren County District Landfill  
Mount Pisgah Avenue  
Oxford, New Jersey 07863  
Phone: 908-453-2174 (Administration)  
908-453-2174 ext. 234 (Operations)

**Deliverables:** One (1) - set of full size Mylars of landfill topography  
Five (5) - copy sets of above  
Two (2) - CD-Roms on which resides the digitized (CAD) information resulting from the topographic land survey and digitized mapping.

**Provisions:**

1. Digitized data to be compatible with CAD.
2. Contour intervals 2'  $\pm$  0.5 ft. horizontally  
0.1 ft. vertically
3. Ground control survey to check and use ground control monuments.
  - i. Control data to be clearly delineated on deliverables (drawings and diskettes).
  - ii. Control data to be provided based upon the National Geodetic Vertical Coordinate Datum and keyed into the New Jersey Plane Coordinate Datum.
    - New Jersey Ground to .01 feet
    - Latitude and longitude to .01°
  - iii. Horizontal grid locations to be tabulated and expressed based upon both US Coast and Geodetic standard of latitude and longitude as well as feet to the nearest 0.01 feet on the New Jersey Plane Coordinate Datum.  
(Attached sketch - Appendix C defines current data and locations)
4. Scale of maps to be 1 inch equals 100 feet.

- Conditions:
1. Information may be obtained using any of the following techniques:
    - a. Aerial photography
    - b. Traditional Overland
    - c. Combination of both
  2. All submitted data and deliverables to be certified for accuracy by a Licensed Land Surveyor in the State of New Jersey.
  3. Survey must be performed between January 1, 2010 and March 31, 2010. (See Appendix A - NJDEP Regulations)
  4. Provide total volume calculation for Cells 1-A, 1-E, W1-W2, 3, 4 and soil stockpile areas comparing March 2009 topographic survey with proposed survey and also transposing information on to 1995 site maps for submittal.
  5. Provide total volume calculation comparing digitized top of baseliner drainage layer mapping of cells 1-A, 1-E, W1/W2, 3 and 4(provided by the PCFA) to proposed survey.
  6. Provide survey of excess soil stockpile areas (2) and transpose contours onto 1995 site map. Locations of excess soil stockpile areas are shown on "Appendix C".
  7. Deliverables for the survey tasks will also include a volumetric calculation of air space used during the prior survey period compared to the survey that is completed by March 31,2010, and also two (2) CD-Roms on which resides the digitized (CAD) information resulting from the topographic land survey for the event.

Sealed Quotations shall be received by the Pollution Control Financing Authority of Warren County on January 29,2010 at 11:00 am prevailing time at its office at 500 Mt. Pisgah Avenue, Oxford, New Jersey, 07863 at which time and place quotations will be opened and read in public.

**SPECIAL CONDITIONS**

The above survey must be performed during the period of January 1, 2010 through March 31, 2010. A completed survey package must be submitted to the Landfill Office by April 16, 2010.

By order of the Pollution Control Financing Authority of Warren County, New Jersey.

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James J. Williams  
Operations Manager

**QUOTATION SHEET TABLE** \*

**TOPOGRAPHIC SURVEY OF THE WARREN COUNTY DISTRICT LANDFILL**

<b><u>TASKS</u></b>	<b><u>UNIT PRICE</u></b>	<b><u>AMOUNT</u></b>
1) Survey of four (4) Concrete Monuments	_____	_____
2) Provide total volume calculations for cells 1-A, 1-E, W1/W2, 3,4 and excess soil stockpile area compared to 2008 survey. The 2008 survey diskettes provided by the PCFA. (Conditions: 4)		_____
a) Map preparation of proposed survey and entire site. The 45 acre landfill footprint must appear on 1 single map sheet, diskettes of site provided by the PCFA. (Conditions: 4)		_____
3) Provide total volume calculation for cells 1-A,1-E, W1/W2, 3 and 4 compared to baseline drainage layer mapping of same cells. Diskettes of baseliner provided by the PCFA. (Conditions:5)		_____
4) Provide survey and contour mapping of excess soil stockpile areas (Conditions: 6)		_____
6) Two (2) CAD formatted diskettes and CD-Rom of proposed survey and mapping	_____	_____
7) TOTAL	_____	_____
	_____	_____

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

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

\* This sheet must be attached with original Request for Quotation.

NJDEP Solid Waste Regulations

7:26-2A.8 Pages 26-94, 26-95

Appendix A

- (i) All sanitary landfills shall submit an annual topographic survey of all areas of the sanitary landfill. The topographic survey shall be made and submitted, initially, within 90 days of the effective date of this subchapter, and, thereafter, made between January 20 and March 31 of each year and submitted on or before May 1 of each year in accordance with the following:
1. The topographic survey shall be prepared in accordance with the Map Filing Law, N.J.S.A. 46:23-9.9 et seq., and shall be depicted at the same scale and contour intervals as the approved engineering site plan design;
  2. All vertical and horizontal points shall be located utilizing Third Order, Class I for property survey and Third Order, Class II for remaining points in accordance with the "Classification, Standards of Accuracy and General Specifications of Geodetic Control Survey" published by the U.S. Department of Commerce, 1980. Contour elevations and vertical and horizontal locations shall be based on the National Geodetic Vertical Coordinate Datum 1929 (Mean Sea Level Datum 1929) and keyed into the New Jersey Plane Coordinate Datum 1983;
  3. The topographic survey shall delineate, at a minimum, the following:
    - i. The Vertical and horizontal control monuments and secondary control points installed in accordance with N.J. A.C. 7:26-2A.7(a)2 or N.J.A.C. 7:26-2A.8(a) 1xxxiii, delineating X (east and Y (north) coordinates and elevations;
    - ii. All groundwater monitoring wells and piezometers delineating X (east) and Y (north) coordinates and elevations;
    - iii. The property lines of the sanitary landfill properties;
    - iv. The boundary lines of the approved landfill areas;
    - v. The boundary of areas currently being landfilled and which have been landfilled since the last topographic survey as submitted;
    - vi. The boundary of areas which have not been landfilled within the approved landfill area;
    - vii. The boundary of the areas where final cover has been placed; and
    - viii. The topographic survey shall be prepared by a licensed New Jersey Land Surveyor and the topographic survey report shall be certified by a licensed New Jersey Professional Engineer.
    - ix. Information from previous annual topographic surveys may be reproduced in a current annual topographic submission provided that no change to any of (i) 3l through vii above has occurred.

NJDEP Solid Waste Regulations

7:26-2A.8 Page 26-93

Appendix B

(g) 4. The vertical and horizontal control monuments shall be maintained and resurveyed by a licensed New Jersey Land Surveyor and certified for accuracy biennially. The survey shall be, at a minimum, second order accuracy in accordance with the "Classification, Standards of Accuracy, and General Specifications of Geodetic Control Survey" published by the U.S. Department of Commerce 1980. The control monuments shall be tied into the national or state geodetic survey network;