

CIVIL/SANITARY/ENVIRONMENTAL ENGINEERS

SOLID WASTE MANAGEMENT

**Municipal  
Services**

SITE PLANNING/SUBDIVISIONS

**Engineering  
Company, P.A.**

SUBSURFACE UTILITY ENGINEERING (SUE)

May 16, 2013

Ms. Christine Ritter  
Solid Waste Section  
Division of Waste Management  
North Carolina Department of Environment and Natural Resources  
217 West Jones Street  
Raleigh, NC 27603

Re: **Request to Replace Monitoring Well MW-16**  
Wayne County Subtitle D Lined MSWLF, Ph 3 (Dudley)  
Permit No. 96-06  
MESCO Project No. G12016.0

Dear Ms. Ritter:

On behalf of Wayne County, Municipal Engineering Services Company, P.A. (MESCO) is requesting Solid Waste Section (SWS) approval for replacement of monitoring well MW-16. MW-16 is designed to monitor potential contamination upgradient/crossgradient of Subtitle D Lined MSWLF, Phase 3 which is constructed but yet to commence operations. MW-16 is located on the shoulder of a road which makes it susceptible to damage and its presence inhibits potential for future infrastructure development. We request that MW-16 be replaced by MW-16R at the location as shown on **Figure 1**.

MW-16 will be sealed with grout in accordance with 15A NCAC 2C.0113 (d) entitled "Abandonment of Wells".

Proposed MW-16R will be installed per the requirements of 15A NCAC 02C. Proposed MW-16R will be screened to transect the top of the water table with a maximum 15 foot screen, not penetrate any confining layers, and maintain 5 feet separation between ground and sand pack. MW-16R is proposed to be terminated at an approximate elevation of 138 feet amsl or 25 feet below ground which is comparable to MW-16.

Pre-operation baseline water quality monitoring has previously been performed on MW-16 for four events. MW-16R is planned to commence semi-annual monitoring during the August 2013 scheduled event which will be within six months of issuance of the *Permit to Operate*.

Following installation and abandonment the required documentation (well abandonment and well construction records) will be submitted in electronic format to the SWS. Once MW-16R is installed and surveyed the SAP will be updated reflecting the well replacement prior to the next semi-annual monitoring event scheduled for August 2013.

If you need any additional information please contact us at (919) 772-5393 or by email at [jpfohl@mesco.com](mailto:jpfohl@mesco.com).

Sincerely,

**MUNICIPAL ENGINEERING SERVICES CO., P.A.**

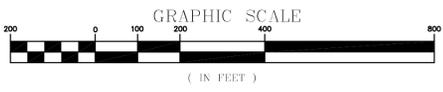
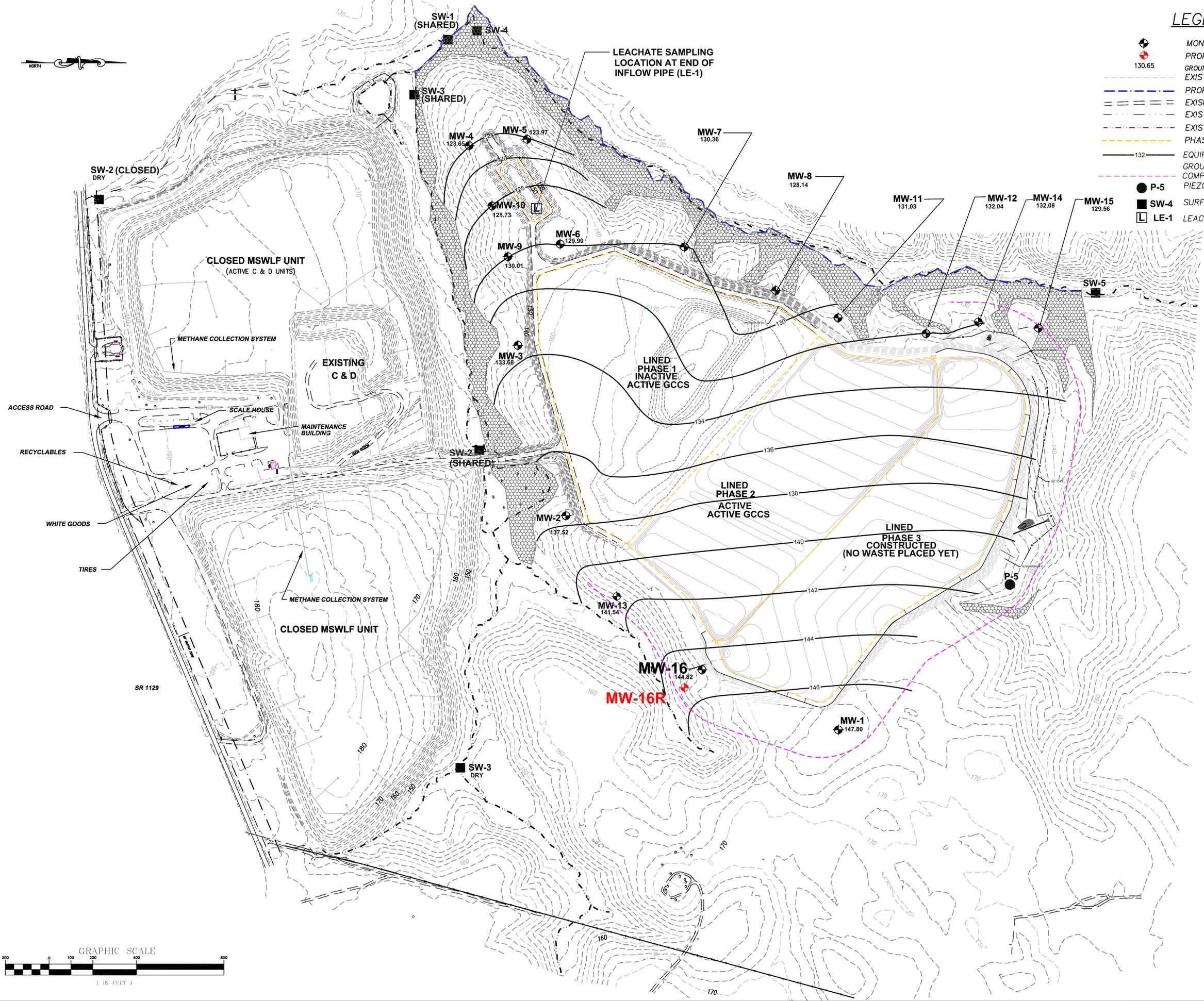
Jonathan Pfohl  
Environmental Specialist

Enclosures



### LEGEND

- MONITORING WELL LOCATION
- PROPOSED MW-16R LOCATION
- GROUNDWATER ELEVATION (FEET AMSL)
- EXISTING TOPOGRAPHIC CONTOURS
- PROPERTY LINE
- EXISTING UNPAVED ROAD
- EXISTING CREEK, STREAM, ETC.
- EXISTING DIVERSION DITCHES
- PHASE LIMITS
- EQUIPOTENTIAL UPPERMOST GROUNDWATER CONTOURS (FEB 2013)
- COMPLIANCE BOUNDARY
- PIEZOMETER
- SURFACE WATER SAMPLE LOCATION
- LEACHATE SAMPLE LOCATION
- WETLANDS



**Engineering  
Company, P.A.**

**Municipal  
Services**

P.O. BOX 349 BOONE, N.C. 28607  
(919) 772-5393  
LICENSE NUMBER: C-0281

**SUBTITLE D LINED  
MSWLF FACILITY  
WAYNE COUNTY  
NORTH CAROLINA**

DATE	BY	REV	DESCRIPTION

SITE MAP WITH MONITORING LOCATIONS  
MW-16 REPLACEMENT

SCALE: 1" = 200'
DATE: 5/16/2013
DRWN. BY: J. PFOHL
CHKD. BY: J. PFOHL
PROJECT NUMBER G12016
DRAWING NO. SHEET NO. FIGURE 1 1 OF 1

# FIGURE 1