

N96095.AR.000812  
NWIRP CALVERTON  
5090.3a

TRANSMITTAL LETTER REGARDING CORRECTIVE MEASURES STUDY ADDENDUM SITE  
6A SOUTHERN AREA GROUNDWATER PLUME NWIRP CALVERTON NY

08/08/2011  
TETRA TECH NUS



NOR-01188

August 8, 2011

Mr. Henry Wilkie  
New York State Department of Environmental Remediation  
Remedial Bureau A, 11<sup>th</sup> Floor  
625 Broadway, Albany, New York 12233-7015

Reference: CLEAN Contract No. N62470-08-D-1001  
Contract Task Order WE08

Subject: Corrective Measures Study Addendum for Site 6A – Southern Area Groundwater Plume  
Naval Weapons Industrial Reserve Plant (NWIRP) Calverton, New York

Dear Mr. Wilkie:

On behalf of the U.S. Navy, please find enclosed one hard copy (HC) and two compact discs (CDs) of the subject document. The addendum is based on the March 2011 Corrective Measures Study, but separates the evaluation into five areas (see Figure 1), as follows:

- Source Area;
- Fence Line Area;
- Offsite Southern Area (VOCs greater than 500 µg/L);
- Offsite Southern Area (VOCs less than 500 µg /L); and
- Peconic River Area.

Table 1 presents alternatives developed for each area and provides an abbreviated evaluation for each alternative. As indicated in the table, Land Use Controls (LUCs) and monitoring alternatives were developed for each area. In addition, area-specific treatment alternatives are presented. Backup calculations for the cost and VOC mass flux estimates are provided in Appendix A and Appendix B.

In addition, Table 1 presents the proposed remedy for the Southern Area Plume. This proposed remedy features groundwater extraction, treatment, and discharge in the Fence Line Area, as identified in the July 2011 Options Evaluation Report, and monitoring and LUCs for the entire plume. The proposed remedy also identifies potential trigger values to be used that would allow the timely implementation of supplemental treatment in other areas including air sparging for the Source Area and offsite biodegradation in the Offsite Southern Area (VOCs greater than 500 µg /L) and/or air sparging at the Peconic River Area (based on evidence of adverse impacts to ecological receptors in the Peconic River).

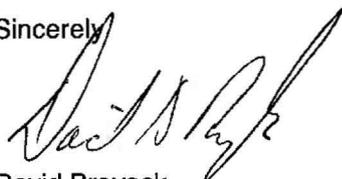
The Design for the Fence Line Area Groundwater Extraction, Treatment, and Discharge System is in progress with an anticipated completion data in January 2012. A design for the groundwater monitoring and LUCs portion of the remedy will also be developed this winter. The monitoring design will incorporate data collected during the planned September 2011 Annual Groundwater Sampling event and will identify the monitoring wells to be used (including new ones), the analyte list, sampling frequency, and establish

NOR-01188  
Mr. Henry Wilkie  
New York State Department of Environmental Conservation  
August 8, 2011- Page 2

trigger values for taking additional action. Table 1 provides a preliminary decision matrix for the trigger values.

If you have any questions please contact Ms. Lora Fly, NAVFAC Mid-LANT, at (757) 341-2012

Sincerely,



David Brayack  
Project Manager

Enclosure: Corrective Measures Study Addendum for Site - Southern Area Groundwater Plume,  
Naval Weapons Industrial Reserve Plant (NWIRP) Calverton, New York

Distribution (CD only):

Distribution:

NAVFAC Mid-Atlantic, Lora Fly  
NYSDEC (Albany), Larry Rosenmann  
NYSDEC (Albany), Henry Wilkie  
NYSDEC (Stony Brook), Bill Spitz  
NYSDOH, Steve Karpinski  
SCDHS, Andrew Rapiejko  
SCDEE, Amy Juchatz  
USEPA Region II, Ellen Stein  
ECOR Solutions, Al Taormina  
SCA Associates, Frank Anastasi  
NGC, Kent Smith  
Community Co-Chair, Bill Gunther  
Community RAB Member John Armentano  
Community RAB Member, Sidney Bail  
Community RAB Member, Art Binder  
Community RAB Member, Louis Cork  
Community RAB Member, Harry Histan  
Community RAB Member, Jean Mannhaupt  
Community RAB Member, Adrienne Esposito  
Community RAB Member, Vincent Racaniello  
Public Repository  
Administrative Record  
Project File