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LETTER REGARDING THE TRANSMITTAL OF THE 2010 FOURTH QUARTERLY REPORT
FOR REPORTING PERIOD FROM OCTOBER 2010 NWS EARLE NJ
2/1/2011
TETRA TECH



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PHIL-24097

February 1, 2011

Project Number 112G02091

Naval Facilities Engineering Command Mid-Atlantic
Northeast IPT
9742 Maryland Avenue
Norfolk, Virginia 23511-3095

Attn: Mr. Roberto Pagtalunan, P.E.

Reference: CLEAN Contract No N62470-08-D-1001
Contract Task Order (CTO) No. WE15

Subject: Submission of 2010 Fourth Quarterly Report
Reporting Period October 2010 through December 2010
Naval Weapons Station Earle, Colts Neck, New Jersey

Dear Mr. Pagtalunan:

Tetra Tech NUS, Inc. (Tetra Tech) is pleased to submit the enclosed Quarterly Report for the Reporting Period October 1, 2010 through December 31, 2010. The report details the Installation Restoration Program (IRP) activities conducted during the subject period at the Naval Weapons Station (NWS) Earle, located in Colts Neck, New Jersey.

In accordance with your request, copies of this report are being forwarded under cover of this letter to Ms. Jessica Mollin at EPA Region 2 and Ms. Erica Bergman at NJDEP.

Thank you for the opportunity to submit this document. Should you have any questions or require additional copies please do not hesitate to contact me.

Sincerely,

Mary M. Mang, CHMM
Environmental Project Manager

MMM/nfs

Enclosure

c: Scott Fleming (NWS Earle) (2 copies)
Jessica Mollin (EPA) (3 copies)
Erica Bergman (NJDEP) (3 copies)
Garth Glenn (Tetra Tech, Norfolk) (no enclosure)
John Trepanowski (Tetra Tech, King of Prussia) (no enclosure)
Bonnie Capito (NAVFAC Lant) (no enclosure)
Glenn Wagner (Tetra Tech, Pittsburgh)
File



**Naval Weapons Station Earle
Colts Neck, New Jersey**

**Quarterly Report
Reporting Period October 1, 2010 through December 31, 2010**

This report details the Installation Restoration Program (IRP) activities conducted by the Navy during the period of October 1, 2010 through December 31, 2010 at the Naval Weapons Station (NWS) Earle located in Colts Neck, New Jersey.

SITE-WIDE

During the reporting period, Tetra Tech completed preparation of the Site Management Plan (SMP) for Years 2010 through 2014. Copies of the final SMP were distributed to the Navy on December 21, 2010.

On April 2, 2009, a meeting was held at the NJDEP office in Trenton, New Jersey. Meeting attendees included representatives from NJDEP and Tetra Tech. Navy and EPA representatives participated in the meeting via conference call. The purpose of the meeting was to discuss groundwater sampling at Site 7, and the preparation of responses to comments raised on the various Draft Groundwater Classification Exception Area (CEA) Documentation reports for Sites 6 (OU 9), 13 (OU 5), 17 (OU 9) and 26 (OU 3 and OU 7) and proposed submissions for Sites 4 and 5 (OU 1), Sites 3 and 10 (OU 6), and Site 19 (OU 2). Based on this meeting, the Navy agreed to sample Site 7 groundwater for certain volatile organics (see Operable Unit 10). Agreement on the submission of reports detailing groundwater sampling results compared to site background results was also reached for certain sites where site inorganic concentrations in groundwater may be impacted by background conditions. CEA related documentation that was prepared or sampling conducted during this reporting period, are presented in the following site-specific sections.

The draft *Biennial Certification Report for a Groundwater Classification Exception Area (CEA) at Area of Concern (AOC) R-6/7 and R-12* was submitted to NJDEP on May 15, 2009. No review comments have been received to date.

OPERABLE UNIT 1 (SITES 4 and 5)

The 2010 annual long-term monitoring and site inspections at Sites 4 and 5 were completed by ECOR Solutions, Inc. (ECOR) during the week of October 17, 2010. All samples were submitted to Accutest Laboratory for analysis. ECOR is currently preparing a draft report for the 2010 annual monitoring event.

OPERABLE UNIT 2 (SITE 19)

The 2010 annual long-term monitoring and site inspection at Site 19 was completed by ECOR during the week of October 17, 2010. Groundwater, surface water, and sediment samples were collected and submitted to Accutest Laboratory for analysis. ECOR is currently preparing a draft report for the 2010 annual monitoring event.

OPERABLE UNIT 3 (SITE 26)

On behalf of the Navy, ECOR collected groundwater samples from the Site 26 monitoring wells as part of the post-operation monitoring event. Samples were collected on February 16-17, 2010 from 15 monitoring wells and two air sparging wells. The Navy collects samples for monitoring natural attenuation of the site-related chlorinated hydrocarbons approximately every 15 months, as recommended in the Annual Report for Four Post-Operation Groundwater Sampling Rounds in 2005 (Tetra Tech EC, Inc., 2006). A Final Report of the results from the 2010 sampling event was completed in October.

The *Addendum to the Draft Classification Exception Area (CEA) Documentation Report for Site 26* was submitted to NJDEP in November 2006. Comments were received from the NJDEP on June 25, 2008 and are being reviewed pending results from the natural attenuation monitoring.

On December 9, 2010, a conference call between the Navy, EPA, NJDEP, was held to discuss work efforts for Site 26 during Year 2011. Based on the groundwater monitoring results to date, EPA and NJDEP indicated that the May 2011 sampling needs to be completed before a decision on future activities at the site might be made.

OPERABLE UNIT 4 (SITE 23)

In accordance with the August 2010 *Sampling and Analysis Plan for Site 23 Groundwater Sampling*, Tetra Tech conducted well development and groundwater sampling activities at Site 23 during the weeks of November 1, 2010, and November 15, 2010, respectively. The groundwater samples were submitted to Kathadin Analytical Services for analysis. Upon receipt of the laboratory results and completion of data validation, a report detailing the sampling and results will be prepared by Tetra Tech.

OPERABLE UNIT 5 (SITE 13)

The 2010 annual long-term monitoring and site inspection at Site 13 was completed by ECOR during the week of October 17, 2010. Groundwater samples were collected and submitted to Accutest Laboratory for analysis. ECOR is currently preparing a draft report for the 2010 annual monitoring event.

OPERABLE UNIT 6 (SITES 3 and 10)

The 2010 annual long-term monitoring and site inspections at Sites 3 and 10 were completed by ECOR Solutions, Inc. (ECOR) during the week of October 17, 2010. The samples were submitted to Accutest Laboratory for analysis. ECOR is currently preparing a draft report for the 2010 annual monitoring event.

OPERABLE UNIT 7 (SITE 26 PCE PLUME)

Groundwater monitoring was conducted at Site 26 as outlined under Operable Unit 3, Site 26 above.

OPERABLE UNIT 8 (SITES 1 and 11)

During the previous reporting period, Tetra Tech abandoned three existing wells and installed three new monitoring wells at Site 1 on August 10-11, 2010. Groundwater samples were collected from two existing wells and the three new wells on August 25 and 26, 2010. Tetra Tech conducted the well abandonment and installation activities in accordance with a May 18, 2010 letter detailing planned follow-up activities at Site 1. Groundwater sampling was in accordance with the July 2009 *Sampling and Analysis Plan (SAP) for Site 1 Groundwater* and revised worksheets dated August 4, 2010. The groundwater samples were submitted to CompuChem Laboratories for analysis. The next round of sampling is scheduled to be conducted by Tetra Tech in late February/early March 2011.

Site 11 is a no further action site.

OPERABLE UNIT 9 (SITES 6, 12, 15, and 17)

During the reporting period, the Navy finalized preparation of a *Draft Sampling and Analysis Plan for Site 6 and Site 17 Groundwater*. The SAP was prepared in accordance with Uniform Federal Policy (UFP) and EPA guidance, and it addresses the scope of work discussed in a conference call between representatives of the Navy, EPA, NJDEP, and Tetra Tech on June 30, 2010. On behalf of the Navy, Tetra Tech submitted The *Draft Sampling and Analysis Plan for Site 6 and Site 17 Groundwater* to EPA and NJDEP on September 29, 2010.

During the reporting period, work continued with preparation of the Operations and Maintenance (O&M) Manual for Site 15. The O&M Manual will include a Sampling and Analysis Plan for the long-term monitoring of Site 15 soils. The plan will be prepared in accordance with UFP and EPA guidance.

OPERABLE UNIT 10 (SITE 7)

The Record of Decision (ROD) for Site 7 was signed by the NWS Earle Commanding Officer on October 8, 2010 and the EPA Region 2 Director of the Emergency Remedial Response Division on November 12, 2010. Paper and electronic (CD) copies of the signed ROD were prepared and distributed to the Navy, EPA, and NJDEP on December 14, 2010. Copies were also placed in the NWS Earle Public Repository and Administrative Record.

The Navy completed construction of a vegetated soil cover at Site 7. Final seeding of the cover was completed in November 2010.

SITES 9, 41, and 46

During the reporting period, the Navy continued with work on the Site 9 Draft Feasibility Study. Work on the Draft Feasibility Studies for Sites 41 and 46 was also conducted during the reporting period.

SITE 16/EPIC SITE F (BUILDING C-50 DIESEL FUEL LINE)

During August 2010, ECOR conducted the quarterly monitoring of Site 16/F groundwater. The Navy submitted the *Final Bioslurper Status Report (June 2010 - August 2010)* to NJDEP on December 9, 2010.

Installation of the recommended new monitoring well for Site 16/F will be conducted upon NJDEP approval of the well permit application.

Work on the draft *Biennial Certification Report for a Groundwater CEA at Site 16/F* is currently on hold pending NJDEP resolution of comments on the most recent bioslurper status and monitoring report.