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FINAL THIRD QUARTERLY REPORT 2014 NWS EARLE NJ
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RESOLUTION CONSULTANTS

**FINAL THIRD QUARTERLY REPORT 2014
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY**

**Quarterly Report
Reporting Period 1 July 2014 through 30 September 2014**

Prepared for:



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

**Final 2014 Third Quarterly Report
Reporting Period 1 July 2014 through 30 September 2014**

This report details the Environmental Restoration Program activities conducted by the Department of the Navy during the period of 1 July 2014 through 30 September 2014 at Naval Weapons Station Earle located in Colts Neck, New Jersey.

SITE-WIDE

No site wide activities were conducted this quarter.

OPERABLE UNIT 1 (SITES 4 and 5)

The Navy's contractor, Sovereign Environmental Inc. (Sovereign), completed the Internal Draft Annual Maintenance and Monitoring Report for the Landfill Caps Sites 3 and 10, Sites 4 and 5, Site 13, and the Long Term Monitoring for Site 19 for work performed in 2013. On 30 April 2104 the external draft report was submitted to U.S. Environmental Protection Agency (U.S. EPA), New Jersey Department of Environmental Protection (NJDEP) and Tetra Tech. No comments have been received to date so the report will be finalized in October 2014.

The first semiannual facility inspection of Sites 4 and 5 was conducted in May 2014. No landfill cap or storm drainage system deficiencies were found during the inspections. The second semiannual facility inspection and the next biennial groundwater sampling event are scheduled for November 2014.

During the previous reporting period, the Navy's contractor, Tetra Tech, prepared Technical Memorandums summarizing the historical monitoring results for Site 4 and Site 5. The Technical Memorandums also recommended the installation of additional wells and sampling needed for delineating the extent of groundwater Classification Exception Areas (CEAs) at each site. The Technical Memorandum for Operable Unit 1, Site 4-Landfill West of "D" Group was submitted to the Navy, U.S. EPA, and NJDEP on 5 August 2013. The Technical Memorandum for Operable Unit 1-Site 5-Landfill West of Army Barricades was submitted to the Navy, U.S. EPA, and NJDEP on 12 September 2013. No written regulatory review comments received during the reporting period.

OPERABLE UNIT 2 (SITE 19)

Sovereign completed the Internal Draft Annual Maintenance and Monitoring Report for the Landfill Caps Sites 3 and 10, Sites 4 and 5, Site 13, and the Long Term Monitoring for Site 19 for work performed in 2013. On 30 April 2104 a draft report was submitted to U.S. EPA, NJDEP and Tetra Tech. No comments have been received to date so the report will be finalized in October 2014.

Resolution Consultants prepared the internal draft Explanation of Significant Difference (ESD) to document the removal of the requirement to establish a CEA. Per the quarterly call of 7 July 2014, a Technical Memorandum is being developed to evaluate the potential to discontinue groundwater, surface water, and sediment sampling as well. Upon regulatory approval of the Technical Memorandum conclusions, the ESD will be rewritten to include the removal of the groundwater monitoring requirement.

OPERABLE UNIT 3 (SITE 26)

At the direction of the Navy, Tetra Tech prepared a formal Response to Comments document and prepared the Draft Final version of the Tier II UFP-SAP for Site 26 Post-AS/SVE Operation Investigation. Both documents responded to U.S. EPA Region 2 review comments received on the draft 2013 version of the Tier II UFP-SAP. As of this date, no NJDEP comments have been received. As part of the report finalization, Tetra Tech and the NWS Earle Point of contact conducted a site visit on 24 July 2014. The Response to Comments and the Draft Final version of the Tier II UFP-SAP were submitted to the Navy, U.S. EPA and NJDEP on 1 October 2014.

OPERABLE UNIT 5 (SITE 13)

Sovereign completed the Internal Draft Annual Maintenance and Monitoring Report for the Landfill Caps Sites 3 and 10, Sites 4 and 5, Site 13, and the Long Term Monitoring for Site 19 for work performed in 2013. On 30 April 2104 a draft report was submitted to U.S. EPA, NJDEP and Tetra Tech. No comments have been received to date so the report will be finalized in October 2014.

Resolution Consultants prepared the internal draft Remedial Action Completion Report for Site 13 and submitted it to the Navy for review on 19 September 2014.

The first semiannual facility inspection of Site 13 was conducted in May 2014. No landfill cap or storm drainage system deficiencies were found during the inspection. The next inspection is

scheduled to be conducted in November 2014.

OPERABLE UNIT 6 (SITES 3 and 10)

Sovereign completed the Internal Draft Annual Maintenance and Monitoring Report for the Landfill Caps Sites 3 and 10, Sites 4 and 5, Site 13, and the Long Term Monitoring for Site 19 for work performed in 2013. On 30 April 2104 a draft report was submitted to U.S. EPA, NJDEP and Tetra Tech. No comments have been received to date so the report will be finalized in October 2014.

The first semiannual facility inspection of Sites 3 and 10 was conducted in May 2014. No landfill cap or storm drainage system deficiencies were found during the inspections. The next inspection is scheduled to be conducted in November 2014.

OPERABLE UNIT 7 (SITE 26 PCE PLUME)

Site 26 activities are outlined under Operable Unit 3 of this report.

OPERABLE UNIT 8 (SITES 1 and 11)

Resolution Consultants prepared the internal draft ESD to document the removal of the requirement to establish a CEA at Site 1. Per the quarterly call of 7 July 2014, a technical memorandum was to be developed to evaluate the potential to discontinue groundwater sampling. The Draft Technical Memorandum was submitted to the Navy on 12 August 2014 for review. Draft comments have been incorporated and the final memorandum is schedule to be submitted for regulatory review in October 2014. Upon regulatory concurrence of the findings of the Technical Memorandum, the ESD will be amended to include the removal of the groundwater sampling requirement.

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

The Operations and Maintenance Manual for Site 15, including soil sampling and health and safety plans is being prepared.

As recommended in the November 2013 Final Groundwater Sampling Report for December 2011 and May 2012 Sampling Events, Sites 6 and 17, Tetra Tech installed additional monitoring wells at Site 17 the week of July 7th, 2014. An Addendum to the Final Sampling and Analysis Plan for Groundwater Sampling at Site 6-Landfill West of Normandy Road and Site 17-Disposal site behind Training Barge which included revised worksheets to address the recommended additional groundwater sampling was prepared and issued to Navy, U.S. EPA and NJDEP on September 18,

2014. The first round of groundwater sampling at Site 17 was completed on 26 September 2014. The next round is scheduled for February 2014.

SITE 2 ACTIVE ORDNANCE DEMOLITION RANGE

The updated Sampling and Analysis Plan for Site 2 was submitted to NJDEP on 21 February 2014. During the reporting period, Tetra Tech prepared the Second Quarter Groundwater Monitoring Report and submitted it to the Navy on 9 September 2014. Tetra Tech completed the third quarter groundwater sampling event at Site 2 the week of 8 September 2014. Analytical sampling results are pending. The First Quarter Groundwater Monitoring Report and Second Quarter Groundwater Monitoring Report were submitted to the regulator agencies on 2 July and 17 September, respectively.

SITES 9, 41, and 46

During the reporting period, Tetra Tech responded to U.S. EPA and NJDEP comments on the draft Record of Decision (ROD) for Site 9 Operable Unit 11 (OU11) including the Responsiveness Summary that was submitted to the U.S. EPA and NJDEP on 23 April 2014. Based on concurrence by the U.S. EPA and NJDEP, the final version of the Site 9 ROD was prepared. Navy approval and signature was received in early August 2014. The NJDEP sent a letter of concurrence for the selected remedy to the Navy on 15 September 2014. The OU11 ROD was signed by the U.S. EPA on 18 September 2014.

During the reporting period, Tetra Tech worked on preparation of the Site 41 and Site 46 feasibility studies. As agreed to in the most recent quarterly conference call between the Navy, U.S. EPA and NJDEP, separate feasibility studies will be prepared for each site.

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

The fourth Year 16 quarterly groundwater monitoring and sampling event was conducted in May 2014. Sovereign submitted the Draft Year 16 Groundwater Monitoring Report for groundwater sampling conducted from August 2013 to May 2014 to the Navy for review *on 22 August 2014*. *Comments were received on 5 September 2014* and the report will be finalized for submission to the NJDEP in October 2014. The next quarterly sampling event is scheduled for November 2014.

The bioslurper oil water separator was pumped out for disposal, cleaned, and inspected in June 2014. Inspection findings reported corrosion which will be monitored; no immediate action is proposed.

Tetra Tech, finalized the Tier II Sampling and Analysis Plan (SAP) for Site 16/F Vapor Intrusion Groundwater Investigation. Copies of the final Tier II SAP were distributed to the Navy and NJDEP on 28 February 2014. On 24 June 2014, Tetra Tech finalized the site-specific Health and Safety Plan with the Navy for the Site 16/F field activities. A site visit was conducted on 24 July 2014 to locate the proposed sampling points. Subcontractor procurement has been completed and field activities are scheduled for October 2014.

Resolution Consultants reviewed documentation received from Sovereign regarding the operation of the bioslurper remediation system at the site. Resolution was reviewing the documents to evaluate the potential for optimization via ozone injection; however, the initial evaluation determined that ozone injection would not be an effective method for optimization. Resolution Consultants is currently evaluating other technologies for optimization. The findings will be compiled in a Technical Memorandum expected to be completed in the fourth quarter.

BUILDING 566

NJDEP is expected to issue a letter stating no further investigation is required for this site.

AREAS OF CONCERN R-6, R-7, and R-12

Sovereign completed the Draft Groundwater Monitoring Report for AOC R-6/7 and R-12 for activities conducted in 2013. On 24 February 2014, Sovereign submitted the report to the Navy for review. The final report was submitted on 8 April 2014. The next sampling event is scheduled for November 2014.

UXO 2 — MUNITIONS LOADING PIER COMPLEX

Digital Geophysical Mapping (DGM) Field activities were completed in late March through mid-April 2014. Pier 2 was surveyed first with approximately 14 acres of DGM data collected. Pier 1 was surveyed following Pier 2 with approximately 20 acres of DGM data collected. The DGM Technical Memorandum Summary Report was developed and submitted for regulatory review on 17 July 2014. Based upon the results of the DGM survey, additional investigation in the form of a Phase 2 anomaly inspection was recommended. The Navy and CH2M HILL are evaluating technologies for the anomaly inspection and will schedule a scoping session with the Regulators (currently anticipated for late October).