Resolution Consultants

A Joint Venture of AECOM & EnSafe
1500 Wells Fargo Building
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Norfolk, Virginia 23510

Agenda for Restoration Advisory Board

Naval Weapons Industrial Reserve Plant Bethpage

Date:

May 15, 2013

Time:

7:00 PM

Location:

Community Room at the Ice Skating Center at Bethpage

- General overview Lora Fly, NAVFAC Mid Atlantic
- Distribution of minutes All members
- GM-38 Operations and Site 1 Soil Vapor Extraction Containment System Performance H & S
- Onsite Activities-PCB area Tetra Tech Y
- OU-2 Offsite Groundwater Investigation Installation of VPB and pump test activities performance— *Tetra Tech/Resolution Consultants*
- Closing remarks Lora Fly, NAVFAC Mid Atlantic





Restoration Advisory Board (RAB) Meeting

GM-38 Area Groundwater Treatment Plant and Site 1 Soil Vapor Extraction Containment System Operation

Naval Weapons Industrial Reserve Plant (NWIRP) Bethpage May 15, 2013

Presentation Agenda

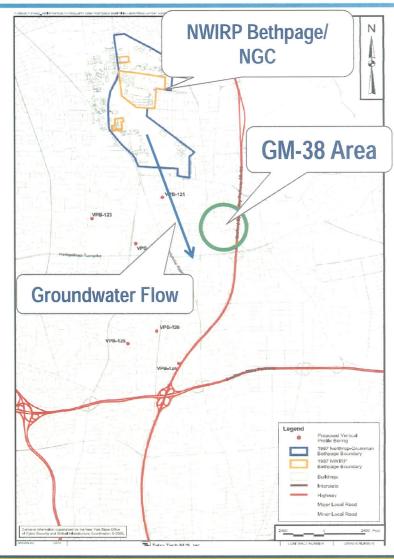


- GM-38 Groundwater Treatment Plant (GWTP)
 - Overview
 - Operational Activities
 - GWTP performance and future activities
- Site 1 SVECS (Soil Vapor Extraction Containment System)
 - Overview
 - Operational Activities
 - System performance and future activities

GM-38 Project Overview

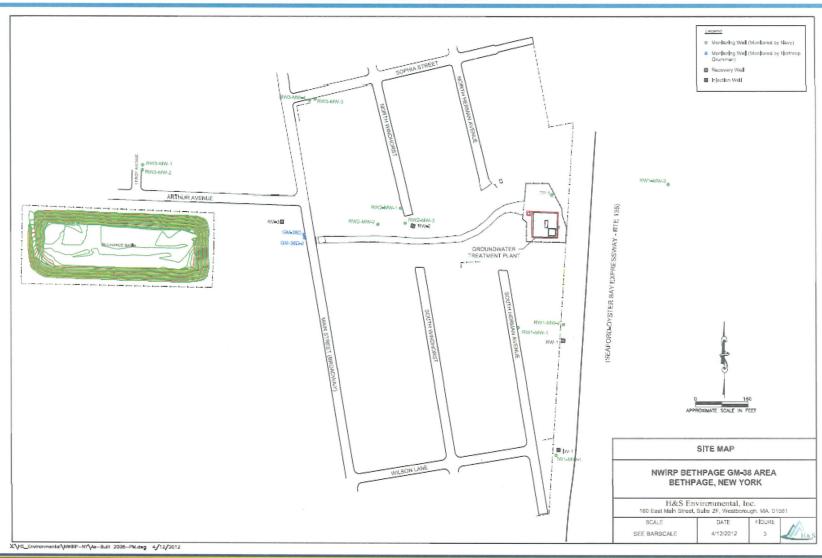


- Purpose: Treat an area of higher concentration volatile organic compound (VOC)impacted groundwater.
- System started operation in October 2009.
- In 2012, system extracted 40.3 million gallons of water and 128 pounds of VOCs per month.



GM-38 REMEDIAL ACTION





GM-38 REMEDIAL ACTION

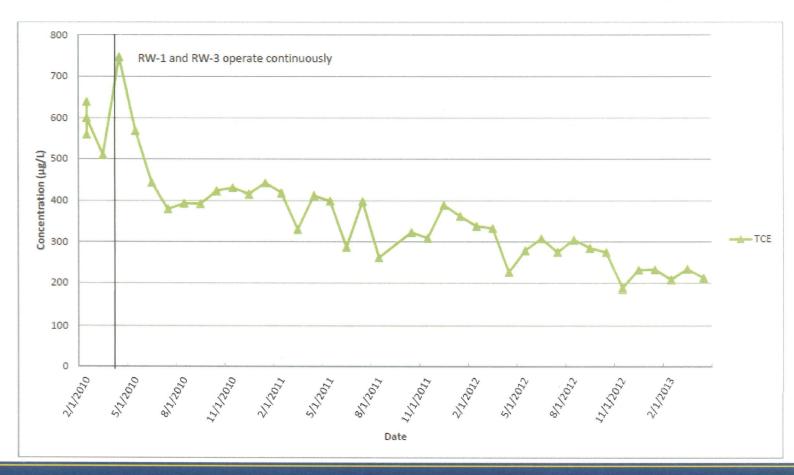


Recovery Well RW-1 (335-395 and 410-435 ft bgs)

TCE Concentrations

GM-38 Groundwater Treatment Plant

NWIRP Bethpage, NY



GM-38 REMEDIAL ACTION



Recovery Well RW-3 (392-412 and 442-504 ft bgs)

TCE Concentrations

GM-38 Groundwater Treatment Plant

NWIRP Bethpage, NY



GM-38 GWTP Operational Activities



- Quarterly groundwater samples collected from eight monitoring wells (3-4 December 2012, 13-14 March 2013).
 - Next event scheduled for June 2013, to include several additional wells.
- System down 13-21 December 2012 for replacement and reconfiguration of new PC after current PC malfunctioned.
- Pump test performed 29 March 2013 15 April 2015.

GM-38 GWTP Performance and Future Activities



- Plant operates in compliance with air and SPDES permit guidelines.
- Runtime is near 95% with minimal downtime due to power outages and scheduled maintenance.
- Approximately 1,715 million gallons of water treated through April 2013.
- Collect monthly air and water compliance samples.
 - Submit monthly O&M compliance reports.
- Collect quarterly groundwater samples of surrounding monitoring wells.
 - Submit quarterly operations reports.

GM-38 GWTP Performance and Future Activities



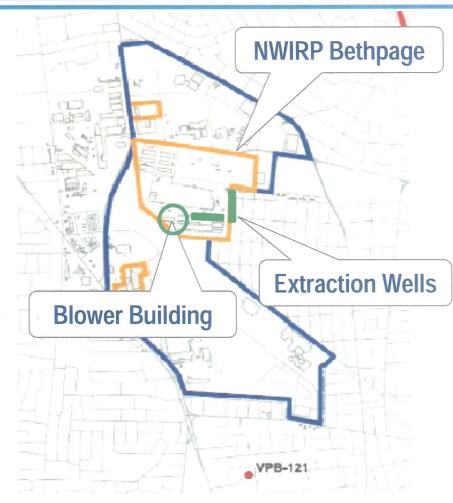
- System will be operated until COC concentrations are similar to those in the surrounding aquifer.
- Optimization activities are ongoing:
 - Improve performance
 - Evaluate capture zone
 - Reduce operating cost

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SITE 1 SVECS Project Overview



- Purpose: Prevent offsite migration of Site 1 VOC-impacted soil gas and cleanup offsite soil gas.
- System started operation in January 2010 and continues to operate.
- Extracts approximately 400 cubic feet per minute of soil gas from 12 wells located along Site 1 fence line. Five additional extraction wells added in October 2011 to address potential VOCs under Plant No. 3 and South Warehouse.



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SITE 1 SVECS Operational Activities



- Nine additional SVPMs installed along 10th, 11th, and Sycamore Streets 5-6 September 2012.
- Quarterly vapor samples collected from 12 SVE wells (5 December 2012 and 15 January 2013).
- Annual vapor samples collected from 18 SVPMs on 15-16
 January 2013.
- Quarterly SVPM monitoring of 18 SVPMs performed 5 December 2012 and 15 January 2013.
- Next quarterly event scheduled for mid-May 2013.

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SITE 1 SVECS Offsite Soil Gas Monitoring





SITE 1 SVECS Performance and Future Activities



- Plant operates in compliance with air permit guidelines.
- Runtime is above 95% with minimal downtime due to power outages and scheduled maintenance.
- Collect monthly air compliance samples.
- Collect quarterly air samples of SVE wells and perform quarterly SVPM monitoring. Collect annual air samples of the SVPMs (winter time-frame).
 - Submit quarterly operations reports.

SITE 1 SVECS Performance and Future Activities



- System is expected to operate until approximately 2015.
- Optimization activities are ongoing:
 - Improve performance
 - Evaluate capture zone
 - Reduce operating cost