



NAVAL AIR STATION JOINT RESERVE BASE (NAS JRB) WILLOW GROVE

Restoration Advisory Board (RAB) Meeting Minutes

RAB Meeting No. 56

Meeting Date: June 4, 2014

Meeting Time: 2:00 p.m.

Meeting Place: Horsham Township Public Library

	<u>Name</u>	<u>Organization</u>
Attendance:	Ted Roth (R)	RAB member
	Dan Kell	Community Member
	Carl Meixsell	Park Creek Association
	Mike Healey	Horsham Water and Sewer Authority
	Bill Walker	Horsham Township
	Willie Lin (R)	Navy, BRAC PMO (Co-Chair)
	Brian Helland (R)	Navy, NAVFAC
	Lt Col Jackie Siciliano	Willow Grove Air Guard Station
	Marty Schy	NAS JRB Navy Caretaker's Office
	Jim Rugh	NAS JRB Navy Caretaker's Office
	Lisa Cunningham (R)	EPA
	Larry Brown	EPA
	Mark Leipert	EPA
	Margaret Pollich (R)	PADEP
	Jessica Kasmari	PADEP
	Andrew Frebowitz	Tetra Tech
	Mark Marotta	Montgomery Media
	Don Neill	Community Resident
	Rachel DeMarzio	Montgomery County Health Department

(R) Designates RAB Member

Willie Lin opened the meeting by greeting the attendees. Mr. Lin noted that Liz Gemmill, the RAB community co-chair, would not be present today. Mr. Lin asked all attendees to introduce themselves. After introductions, Mr. Lin asked if the attendees had an opportunity to review the minutes from the March 5, 2014, RAB meeting. There were no comments on the minutes; therefore, they were considered accepted. Mr. Lin reminded the attendees that meeting minutes are posted on the Navy's BRAC website. Mr. Lin informed the attendees that the Air Force would not be presenting at this RAB but that Colonel Siciliano was in attendance representing the Air Force, and can answer any questions directed to the Air Force.

Mr. Lin provided an update on the radiological assessment. A Historical Radiological Assessment (HRA), which is a file review for potential radiological impacts, was completed in July 2013. Eighteen potential sites were identified. The final Basewide Radiological Management Plan (BRMP) was issued on March 19, 2014. The Navy is now preparing site-

specific work plans known as Task-Specific Plans (TSPs) for each site. The TSPs that have been prepared and are now in review are the scoping surveys for the CERCLA landfill Sites 1, 3, and 12, and for the footprints of now-demolished buildings 4, 18, 23, and 77. Scoping surveys are the initial evaluation to identify if radionuclide contaminants exist. The work will include a surface scan, soil sampling, and a dose rate assessment. Minimal clearing of vegetation is expected. Mr. Walker questioned the timeframe of these surveys and asked if they might occur this Summer 2014. Mr. Lin replied that the goal was to begin them this summer, but that was dependent on the resolution of review comments.

Eleven potentially impacted existing buildings that functioned as hangar repair facilities were identified in the HRA. The Navy will also conduct an evaluation on these, which will include a surface scan, static measurements, transferable contamination surface measurements, some floor drain measurements, and dose rate assessments. These surveys are scheduled to start in early 2015.

Mr. Lin introduced Andy Frebowitz to provide an update on the CERCLA sites; Sites 3, 5, and 12. Mr. Frebowitz continued the presentation with the status of Site 3 – the Ninth Street Landfill. Mr. Frebowitz gave a brief summary of the site which used several disposal trenches for waste burial. There has been no change in status since the last RAB meeting. The Feasibility Study (FS) for chemical contamination has been prepared. Various remedial alternatives were evaluated in the FS including capping and removal options, but the FS cannot be completed until the radiological results are received and included in the remedial alternatives evaluation. There were no questions from the attendees regarding Site 3.

Mr. Frebowitz continued with Site 5 – the Fire Training Area. This is the site where the bioremediation project is being performed on the groundwater plume contaminated with volatile organic compounds. The record of decision (ROD) was signed in September 2012 and that documented the selected alternative which is in-situ treatment of groundwater by anaerobic bioremediation, and monitored natural attenuation (MNA) for the downgradient portion of the plume outside of the source area. The remedy also includes implementation of land use controls (LUCs) to prevent the use of untreated groundwater and implementation of vapor mitigation in any new buildings and a vapor intrusion assessment or mitigation before existing buildings are reused.

Remedial designs were prepared and finalized in May 2013. These designs were for implementation of LUCs and to upgrade the treatment system that has been in place since the pilot test. The upgrades included installation of seven new injection wells which will also be used for monitoring the plume. The new wells were installed in July 2013. A remedial action completion report (RACR), which provides details of the system upgrades, was submitted to the regulators in November 2013. Regulatory comments have been provided and a draft final report has been submitted. The Navy is waiting for EPA concurrence to finalize this document, at which point it will be entered into the administrative record.

Mr. Frebowitz presented a schematic of the site and the remediation system, and noted that an operations and maintenance plan, including a long-term monitoring plan, are being prepared. Sample results obtained last year indicated that a biostimulation event was needed. These

activities include the injection of Lactoil, which is the food for the bacteria performing the anaerobic degradation, and buffering solution which is sodium bicarbonate. This event was started in early January and was completed in mid-February. Groundwater monitoring to determine the effectiveness of the injection was conducted in early March and again in late April. A third monitoring event is planned for July 2014. The results of the first two monitoring events indicated that conditions needed for bioremediation to occur were maintained or improved. Monitoring of the environment will continue in the future to determine if additional biostimulation events are required. A series of slides were presented that illustrated the recent biostimulation's effects on the sites oxidation reduction potential (ORP) and pH. Mr. Lin asked Mr. Frebowitz if these changes represented positive trends, and Mr. Frebowitz replied that these trends, including those for dissolved oxygen, which were not shown, were all favorable.

Mr. Frebowitz continued the presentation with an update on Site 12 – the South Landfill. Similar to Site 3, the landfill contains trench and disposal areas which were identified by a geophysical study. The final RI was submitted in February 2014. The report is now online and in the information repository. The next step would be to prepare the FS, but that will wait until the radiological survey is performed.

There were no comments from attendees on Site 12. Mr. Lin opened the floor for any other comments or questions, including those regarding Air Force activities. There were no questions or comments.

Mr. Lin reminded everyone that the information repository can be accessed through the Horsham Township Library, the library's information repository website, and the Navy BRAC PMO website. Mr. Lin indicated the next two RAB meetings are on the agenda and scheduled for Wednesday September 3, 2014, and Wednesday, December 3, 2014 with both meetings starting at 2:00 pm. Mr. Roth asked if some future meetings could be scheduled for the evening at 7:00 or 7:30 for traffic considerations. Mr. Lin thanked Mr. Roth for the suggestion and replied that it would certainly be considered for future meetings to be held in 2015.

A brief ceremony was held to honor Ms. Pollich, the PADEP representative for the RAB, who is retiring. Ms. Pollich was presented with a print of the Air Station and a letter from Mr. Gregory C. Preston, the Director of BRAC PMO East. Mr. Lin added that Mr. Colin Wade had been designated as the succeeding PADEP representative.

Meeting adjourned.



**NAS JRB
WILLOW GROVE
RESTORATION
ADVISORY BOARD
(RAB)**

**June 4, 2014
Meeting Number 56**



Agenda



- Welcome Community RAB Members
- Radiological Update
- Site 3 – Ninth Street Landfill Status
- Site 5 – Fire Training Area Groundwater Remediation Status
- Site 12 – South Landfill Phase II Investigation Status
- Closing Remarks



Radiological Update



- Historical Radiological Assessment (HRA)
 - HRA is a file review for potential radiological impacts
 - 18 sites identified
 - Final HRA completed 18 July 2013
- Basewide Radiological Management Plan (BRMP)
 - Provides overall plan for investigating HRA impacted sites.
 - Navy submitted final BRMP to EPA/PADEP on 19 March 2014.
 - Individual Task Specific Plans (TSP) for Scoping Surveys are developed for each site.



Radiological Update



- Scoping Surveys for landfills and open areas
 - Initial evaluation to identify if radionuclide contaminants exist
 - Includes surface scan, soil sampling, dose rate assessments
 - Minimal clearing of plant growth expected
- Scoping Survey TSP status:
 - Landfill Sites 1, 3, 12: in review by regulators
 - Building footprint 4, 18, 23, and 77: in review by regulators



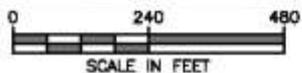
Radiological Update



- Scoping Surveys for buildings and structures
 - Initial evaluation to identify if radionuclide contaminants exist
 - Includes surface scan, static measurements, transferrable contamination surface measurements, floor drain sediment sampling, dose rate assessments
 - 11 buildings (hangars/repair facilities) identified in HRA
 - Scoping surveys expected to be initiated by early 2015



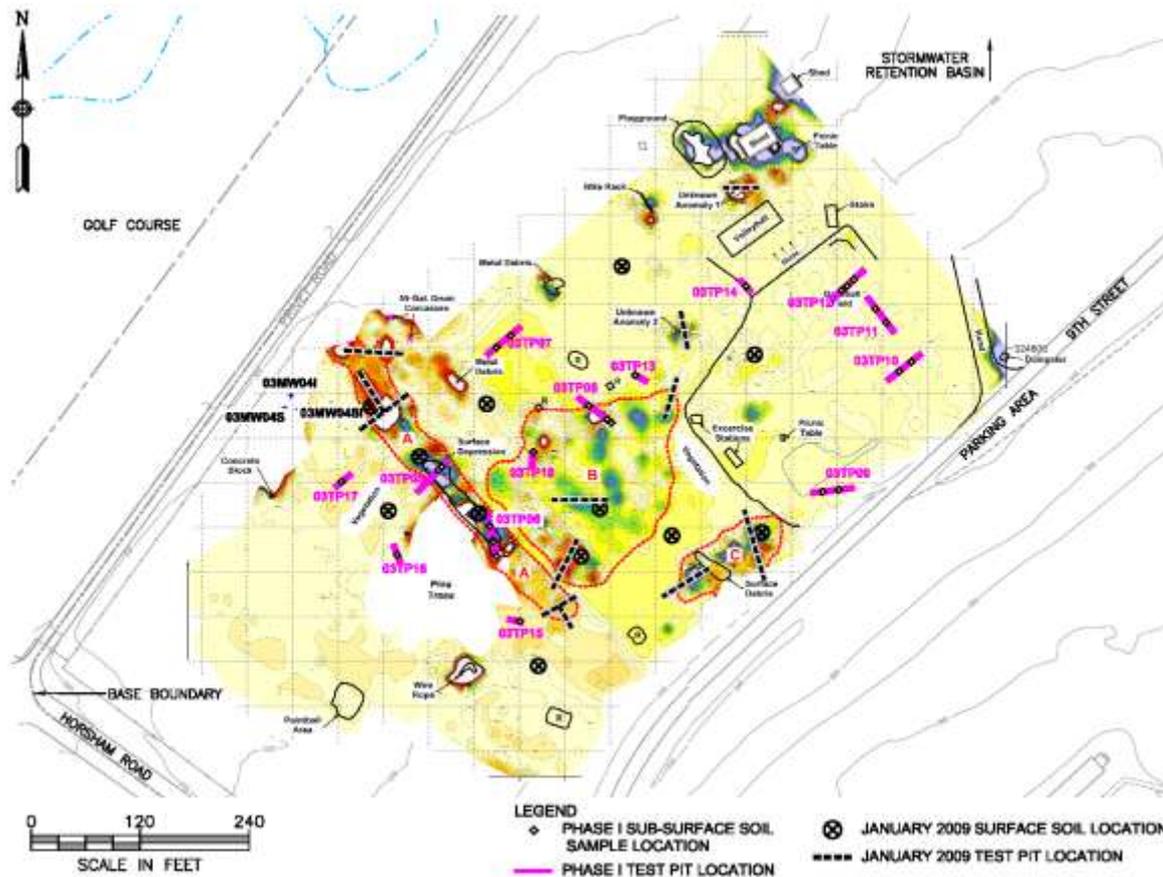
Site 3 – Ninth Street Landfill



SOURCE:
DELAWARE VALLAY REGIONAL PLANNING COMMISSION
2005 DIGITAL ORTHOMAGERY



Site 3 – Ninth Street Landfill





Site 3 – Ninth Street Landfill



- Feasibility Study (FS) in preparation
 - Remediation goals developed for chemical constituents
 - Evaluates removal and capping alternatives
 - Completion of FS After Radiological Field Survey
 - Results from survey will be incorporated into FS



Site 5 – Fire Training Area Groundwater





Site 5 Groundwater Selected Remedy



- Record of Decision signed September 2012
 - In-situ treatment of groundwater by anaerobic bioremediation in and around the former drum storage source area
 - Monitored Natural Attenuation
 - LUCs will be initiated to preclude use of untreated groundwater and require that future buildings are constructed to mitigate the potential for vapor intrusion of VOCs from the subsurface into the buildings



Site 5 Groundwater Remedial Design/Remedial Action



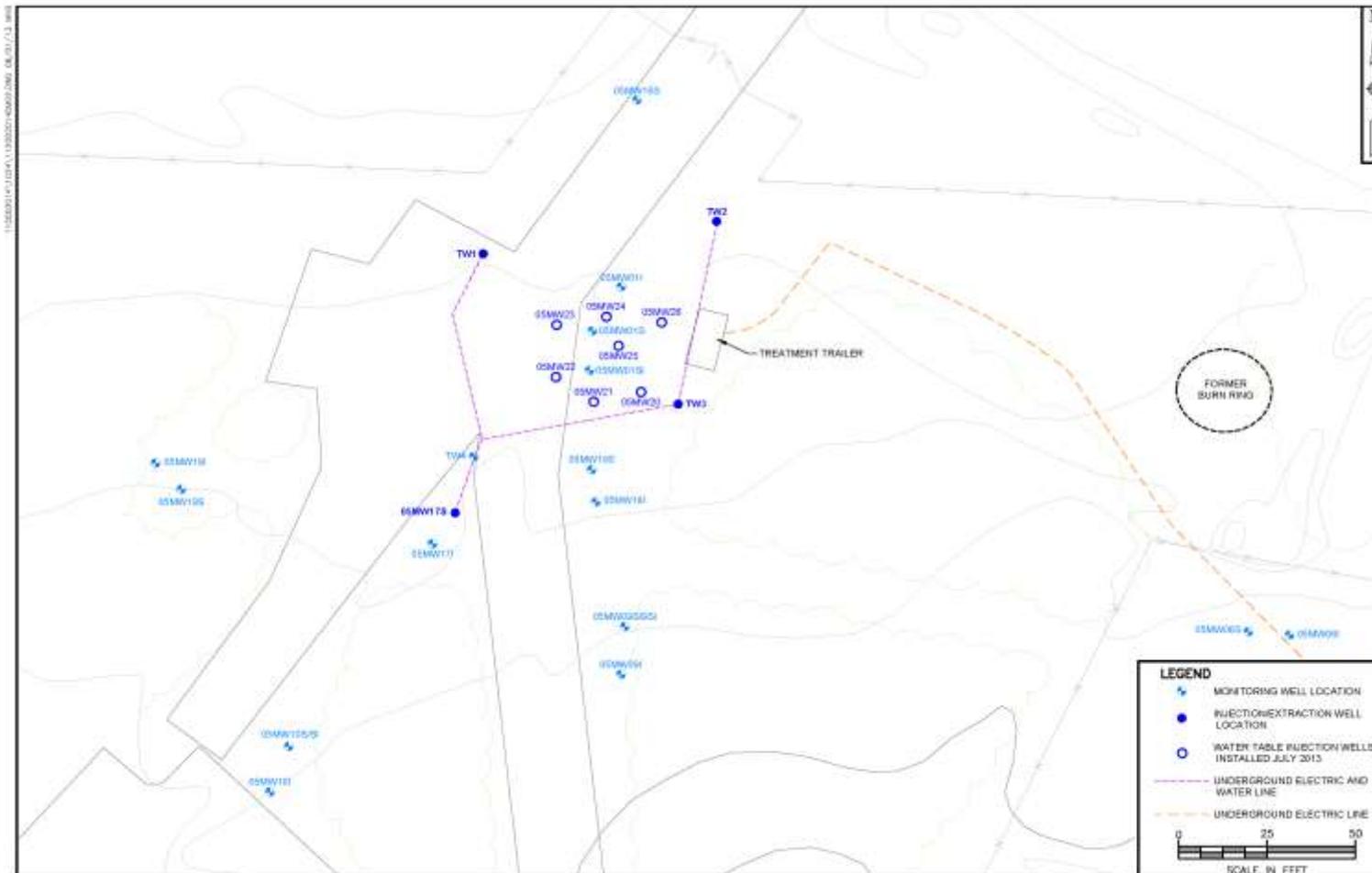
- Remedial Designs Finalized May 2013
 - Remedial Design for Land Use Controls
 - Remedial Design for Additional Injection Wells

- Remedial Action
 - Well Installation Completed July 2013
 - 7 new injection/monitoring wells (figure on next slide)
 - Draft-Final Remedial Action Completion Report (RACR) provided to EPA/PADEP on 7 May 2014

- Operations and Maintenance (O&M) Plan and Long-Term Monitoring (LTM) Plan in Development



Site 5 – Fire Training Area Groundwater





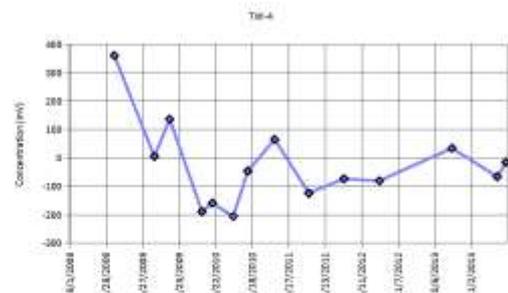
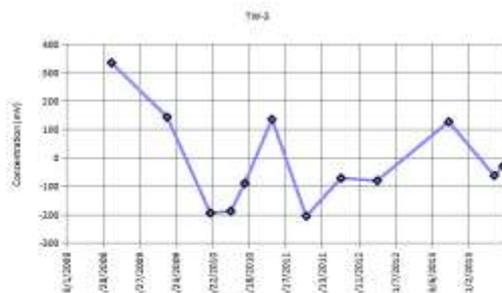
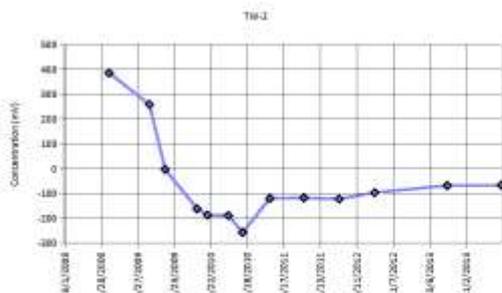
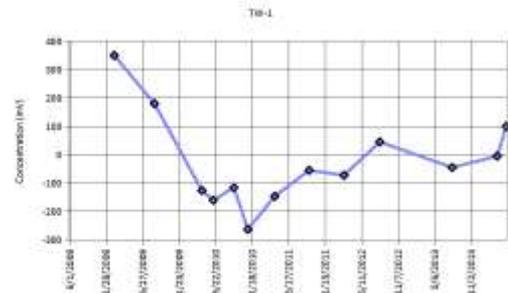
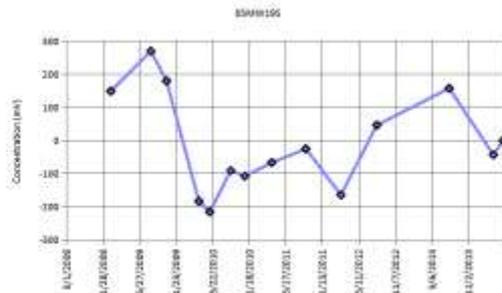
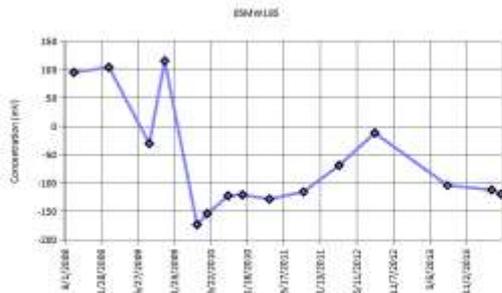
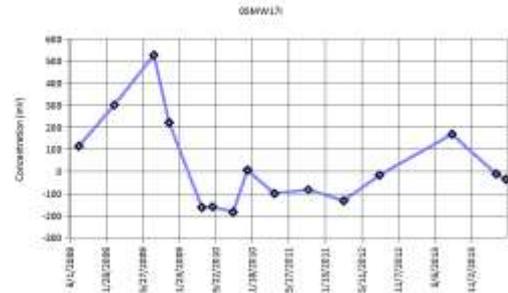
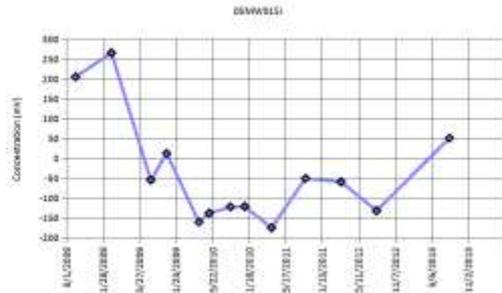
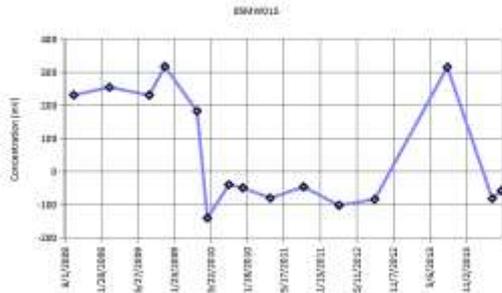
Site 5 Groundwater Current Conditions



- Biostimulation event conducted early January to mid-February 2014
 - Injection of Lactoil and sodium bicarbonate
- Groundwater monitoring in progress
 - pH, ORP, DO
 - Samples collected early March 2014, and late April 2014
 - Both events showed good conditions for reducing environment
 - » Negative ORP, low DO, and optimal pH in treatment area
 - » Next sampling scheduled for early July 2014
- Additional injections will be conducted based on monitoring results until optimal environment for anaerobic reduction is obtained



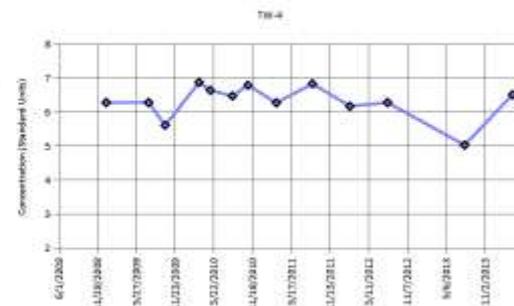
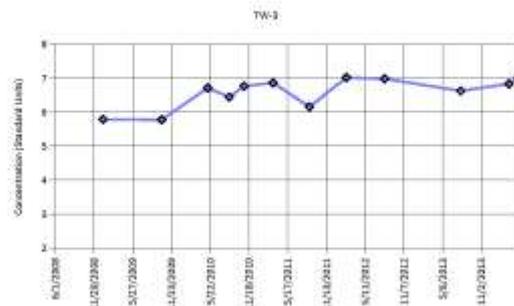
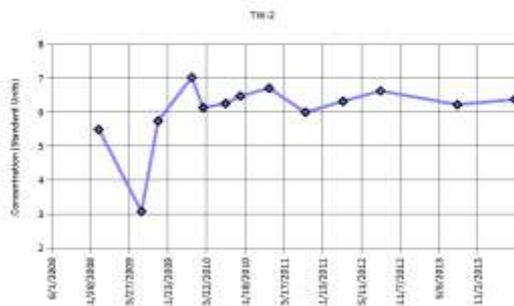
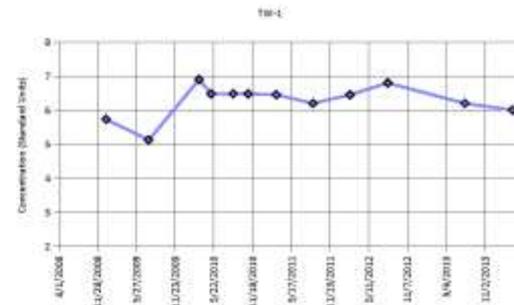
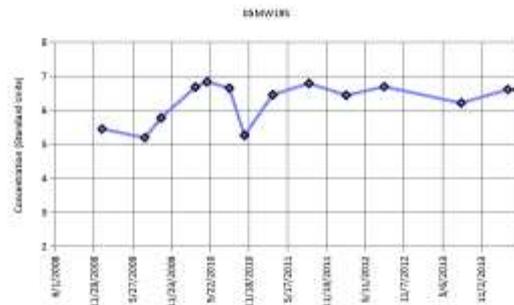
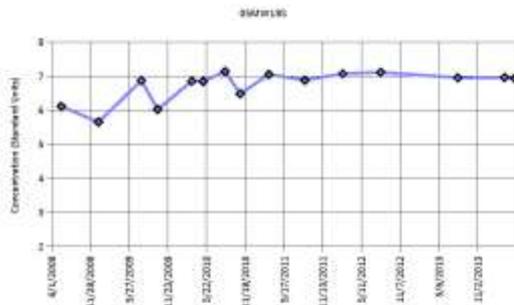
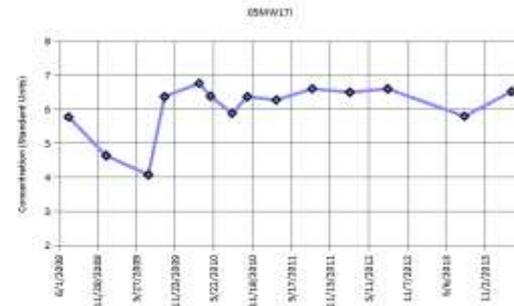
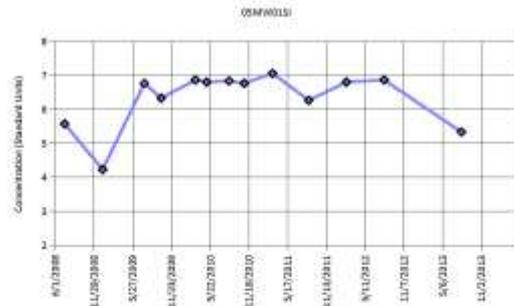
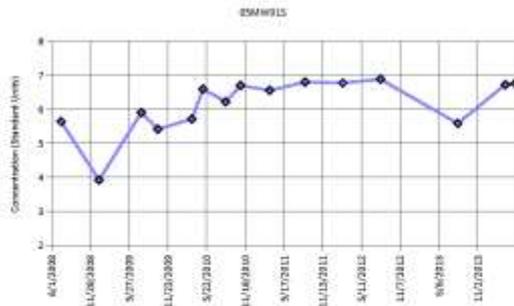
Site 5 – Field Parameter Results ORP



◆ OXIDATION REDUCTION POTENTIAL



Site 5 – Field Parameter Results pH



◆ R

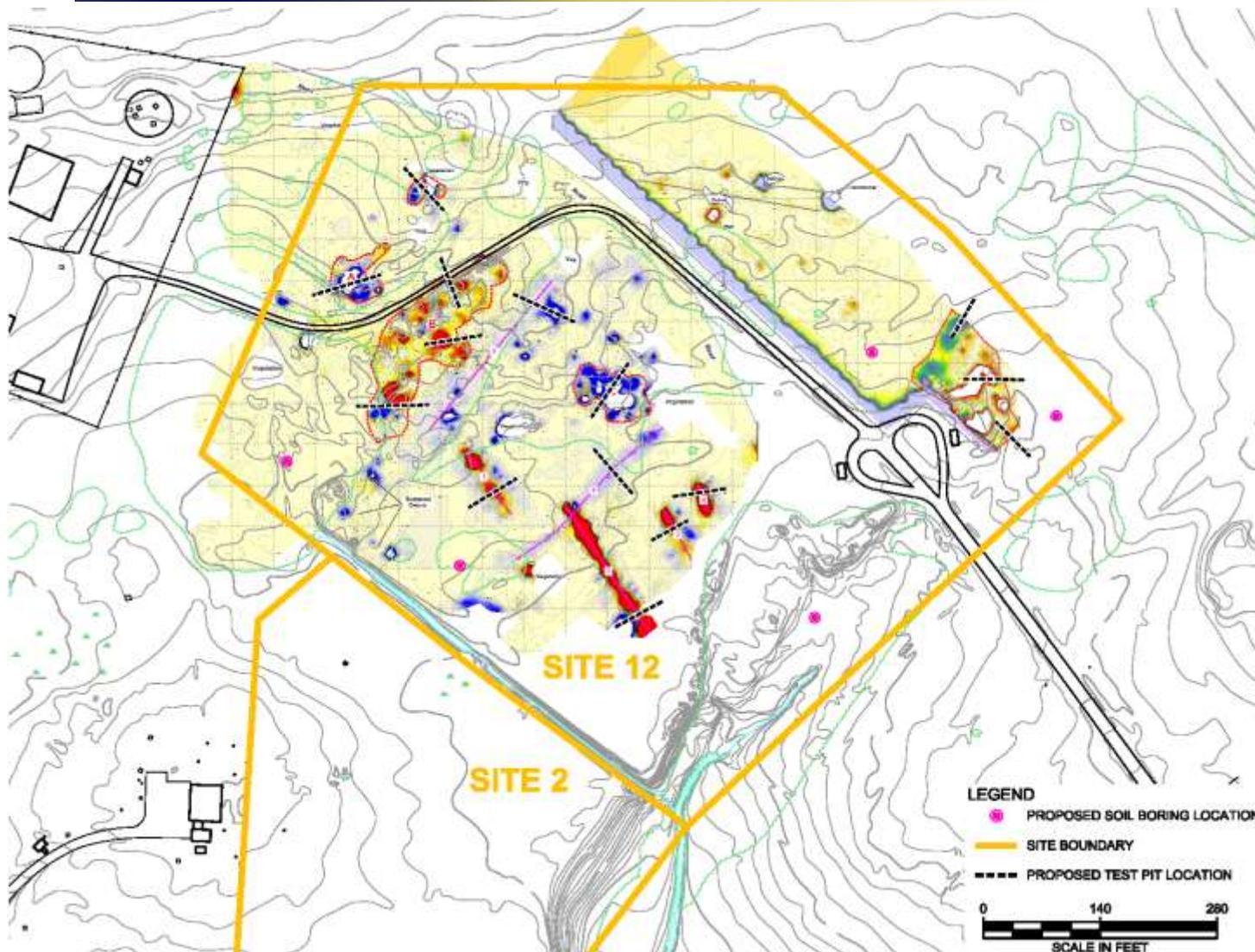


Site 12 – South Landfill Phase II Remedial Investigation





Site 12 – South Landfill





Site 12 Phase II Status



- Remedial Investigation Report
 - Final RI Report submitted on 20 February 2014
 - Available in information repository and online administrative record
- Feasibility Study to be prepared after radiological survey



NAS JRB Willow Grove RAB Meeting 56



- Closing Remarks
- Questions or Comments From The Community?
- Next Meetings
 - September 3, 2014 @ 2:00 pm
 - December 3, 2014 @ 2:00 pm
- Meeting Adjourned