



REPLY TO  
ATTENTION OF:

DEPARTMENT OF THE ARMY  
US ARMY INSTALLATION MANAGEMENT COMMAND  
HEADQUARTERS, UNITED STATES ARMY GARRISON  
4551 LLEWELLYN AVENUE, SUITE 5000  
FORT GEORGE G. MEADE, MARYLAND 20755-5000

IMND-MEA-PWE

March 5, 2012

MEMORANDUM FOR Restoration Advisory Board Members

SUBJECT: Minutes for the January 19, 2012 Restoration Advisory Board Meeting

1. The Restoration Advisory Board (RAB) meeting was held on January 19<sup>th</sup>, 2012, at 7 p.m. at the Captain John Smathers Army Reserve Center, Hwy 175, Fort Meade, Maryland. The next RAB meeting will be **Thursday, March 15<sup>th</sup>, 7 p.m.**, at the Captain John Smathers Army Reserve Center.

2. The following RAB members were present:

Mr. Tim Berkoff, Community Member (Provisional)  
Mr. John Burchette, U.S. Environmental Protection Agency  
Mr. Rusty Bristow, Community Member  
Mr. Mick Butler, Fort Meade Co-Chair  
Mr. Paul Fluck, Fort Meade Restoration Manager  
Mr. Martin Madera, Community Member  
Mr. Harry Neal, Community Member  
Mr. Kurt Riegel, Community Member (Provisional)  
Mr. David Tibbetts, Community Co-Chair  
Ms. Kerry Topovski, Anne Arundel County  
Mr. Fred Tubman, Community Member

3. Members not present:

Mr. Wayne Dixon, Community Member  
Ms. Laurie Haines, Army Environmental Command  
Ms. Ivana Maksimovic, Community Member  
Mr. Howard Nicholson, Community Member

4. Others present were:

Mr. Steve Cardon	Fort Meade Legacy, Base Realignment and Closure Office (Versar)
Mr. Walter Chenoweth	Fort Meade, Office of the Staff Judge Advocate Office
Mr. John Cherry	ARCADIS U.S. Inc.
Mr. Tom Crone	ARCADIS U.S. Inc.
Ms. Amanda Duggins	ARCADIS U.S. Inc.
Ms. Sarah Gettier	URS Corporation

Mr. Rick Grills	Maryland Department of the Environment
Ms. Katrina Harris	Bridge Consulting Corp.
Mr. Jerry Kashatus	URS Corporation
Mr. George Knight	Fort Meade, Environmental Division
Mr. Tim Lemke	Odenton Patch
Ms. Shelly Morris	ARCADIS/Malcolm Pirnie
Ms. Lisa Nicholson	Bridge Consulting Corp.
Mr. Dan Sheehan	ARCADIS/Malcolm Pirnie
Ms. Denise Tegtmeier	Fort Meade, Environmental Division (Versar)
Ms. Gretchen Welshofer	URS Corporation

5. Announcements and Minutes:

a. Mr. Paul Fluck opened the meeting, welcomed everyone, and reviewed the main topics on the agenda. Mr. Dave Tibbetts, community co-chair, called the meeting to order. Mr. Fluck invited all present to introduce themselves.

b. Mr. Fluck reminded everyone of the importance of signing out and the location of restrooms and exit doors.

c. Mr. Fluck announced Ms. Laurie Haines of the Army Environmental Command had been re-assigned and would be replaced by Mr. Francis Coulter who has worked at Aberdeen Proving Ground and Picatinny Arsenal. Mr. Fluck noted Ms. Haines had provided extensive expertise and resources to the mission and cleanup of Fort Meade, and he expressed his appreciation for her hard work and dedication.

d. Mr. Fluck made a motion to adopt the November 17<sup>th</sup>, 2011 meeting minutes. The motion was seconded and unanimously adopted to approve the November 17<sup>th</sup>, 2011 minutes.

6. Outstanding Items:

a. Mr. Fluck stated Ms. Kerry Topovski had asked at the last meeting for an update on the DRMO site. He advised the work at the DRMO site was being done under a contract that had encountered some issues, and the contracting officer had terminated work in April 2011. He said the Army has been in negotiations with the contractor to remedy the issues, and it appears the contractor will be able to move forward and commence work very soon. He stated the contract also affected work at the Nike Site and the Former Trap and Skeet Range. He said each of the three projects was in the remedial investigation/feasibility study stage, and the last action at each had been to collect data to finalize documents and fill data gaps. He noted the next step is to prepare a Proposed Plan followed by a Record of Decision and continue on the CERCLA (Comprehensive Environmental Restoration, Compensation and Liability Act) path to remedial action where appropriate. Mr. Fluck stated he would keep the Board members informed when work resumes on the projects.

b. Mr. Fluck noted he did not have any other outstanding items, and the Board concurred there were no other outstanding issues.

7. Little Patuxent River 2011 Munitions Sweep Results:

a. Mr. Fluck introduced Ms. Gretchen Welshofer of URS to provide an overview of the results from the most recent river sweep.

b. Ms. Welshofer stated the munitions sweep is part of the BRAC (Base Realignment and Closure Act) long-term monitoring program to address contamination from a former bazooka range. She stated the program inspects the Little Patuxent River and its banks for potential munitions and explosives of concern (MEC) which is a safety hazard and may constitute an imminent and substantial endangerment to the public and Refuge personnel.

c. Ms. Welshofer advised the sweeps cover approximately eight acres of the Little Patuxent River and river banks, starting from Old Forge Bridge to a point 400 feet south of Maryland Highway 198. She explained five unexploded ordnance technicians, spaced at five-foot intervals, walk side-by-side in the River and conduct a visual survey, as well as use instrumentation, to detect surface debris and munitions and explosives of concern.

d. Ms. Welshofer displayed an aerial photograph and pointed out the route followed by the technicians. She stated the heaviest concentration of debris and munitions tends to be found in the bend towards Highway 198, near the former bazooka training range.

e. Ms. Welshofer showed a picture of the technicians conducting the sweep and noted the 2011 survey was done on September 20.

f. Ms. Welshofer showed a picture of an item which had been removed from the River and placed on the river bank to be further examined and x-rayed to determine if it had any explosives.

g. Ms. Welshofer summarized the findings of the 2011 annual sweep and stated 53 items were recovered and certified as munition debris. She said 48 of the items were determined to be practice rockets and five of the items were determined to be practice rocket motors. Ms. Welshofer stated all of the items were recovered from the river bend near Area 1 and the ball fields; she showed an aerial photograph of the river bend area.

h. Ms. Welshofer summarized the 10 years of annual sweeps and noted a total of 687 expended practice rounds had been recovered from the river bend area, and four MEC items had been recovered, consisting of two white phosphorus-filled rockets during the 2008 sweep and two live practice rocket motors during the 2005 sweep. Ms. Welshofer showed where the items have been found on an aerial photograph.

i. Ms. Welshofer said a draft of the 2011 report is available upon request to Mr. Steve Cardon at 301-677-9178.

j. Mr. Tibbetts asked how long the sweeps will continue, and Ms. Welshofer responded that it is not known how long they will continue. She advised the number of practice rockets being found has been steadily decreasing, but they are still being found. Mr. Tibbetts ask for more information on what is in the rockets, the equivalency of a MSDS sheet, and Mr. Cardon said he would send Mr. Tibbetts this information.

k. Mr. Tim Berkoff asked about surface water and soil conditions in the same area. Mr. Cardon responded that the remedial investigation found no elevated concentrations of constituents. He stated since the nearby range was a training range, 99 percent of the rounds found are inert, and thus there are no MEC constituents present. He advised the surface water and ground water have been sampled for explosives and none have been found. He stated sampling for perchlorate may be required in the future. Mr. Cardon explained the legally-mandated five-year review process continues to evaluate whether the original cleanup remedy and long-term monitoring are appropriate and protective, and these reviews will continue to be conducted. Ms. Welshofer added that the rockets are filled with wax, the white phosphorus is basically smoke, and the live motors contain propellant but not explosive material.

8. Operable Unit No. 4 Off-Post Drilling Update:

a. Mr. Fluck introduced Mr. John Cherry of ARCADIS to provide an update on the off-post drilling work.

b. Mr. Cherry reviewed the topics he would be discussing including providing notice about the upcoming work, a review of the geology, an overview of the drilling and sampling methodology, and information about the three drilling locations and temporary road closures.

c. Mr. Cherry showed several maps of the study area, noting it is in the southeast corner of Fort Meade near Routes 32 and 175. He reminded the Board solvents had been detected in deep monitoring wells 125 and 126, which triggered an off-post residential well survey and sampling. Mr. Cherry stated the survey assessed wells within a one-mile radius to find private wells, to sample drinking water wells, and to provide bottled water. Mr. Cherry said no residential wells within the vicinity of the off-post drilling locations were found to have contaminants above drinking water standards.

d. Mr. Cherry advised the next step in the investigation is to add three new off-post monitoring wells on Bruce Lane, Division Road, and Dopeco Court. He said the Army and ARCADIS have been working closely with the County on obtaining access to the County right-of-ways at these three locations.

e. Mr. Cherry displayed a graphic of the area geology. He stated Operable Unit 4 is underlain by the Patapsco Formation, which is divided into the Upper, Middle and Lower Aquifers, and is 200 to 300 feet thick. He noted the Lower Patapsco Aquifer outcrops to Fort Meade's ground surface. Mr. Cherry stated under the Patapsco Formation is the Arundel Clay and then 400 to 500 feet deep is the Patuxent Formation which is composed of sands and gravel.

f. Mr. Cherry showed a graphical depiction of the geology from Fort Meade to the Atlantic Ocean. He also displayed a Maryland Geological Survey contour map showing the elevation of the Lower Patapsco Aquifer. He explained the extent of the dip of the Aquifer is significant from 200 feet at Fort Meade to 1800 feet on the Eastern Shore.

g. Mr. Cherry next discussed the upcoming off-post drilling in the Odenton Area. He said a rotosonic drill rig will be used to drill down to the Arundel clay and perform vertical groundwater sampling. He showed a picture of the drill rig and noted all drilling will be done on County property. He estimated the work will start in mid-to-late February, and there will be advance notification to residents near each work area. He advised the work could take up to 12 days at each location. Mr. Cherry said the groundwater samples will be sent to the laboratory and the results discussed with EPA and Maryland Department of the Environmental to make decisions on monitoring wells.

h. Mr. Cherry reviewed the drilling process and stated a 70 foot by 50 foot area at the surface would be blocked off. He said the drill rig will enable soil core samples to be collected and provide the on-site geologist with good information on when the boring has moved from one formation to the next. He said groundwater samples will be collected approximately every 20 feet through the Lower Patapsco Aquifer. He said when the drilling reaches the Arundel Clay, they will be able to determine where the contamination is and where it is not. He continued explaining that if contamination is found, a monitoring well and screen will be installed at that point.

i. Mr. Cherry discussed the traffic control plans that would be in place at each of the three drilling locations. He advised Dopeco Court has five houses and one lane will be left open to traffic. He stated Division Road will be closed between Rita Drive and Queen Anne Avenue with a temporary detour, and Bruce Avenue will be closed between Baliol Lane and St. Andrews Lane with a temporary detour.

j. Mr. Cherry reviewed the project schedule and stated drilling will be starting in February. He noted fact sheets will be distributed to residents in advance. Mr. Cherry said a second round of off-post drilling is anticipated in the summer of 2012 with the locations to be determined.

k. Mr. Tibbetts asked whether there could be any impact on a possibly inactive County drinking water well near Kings Heights. Mr. Cherry advised it is a decommissioned facility but still listed as potentially being usable in the County plan. Mr. Tibbetts asked that the Board be kept informed if there should be any new information relevant to this facility, and Mr. Cherry responded he would do so.

l. The Board had a general discussion about surface water and groundwater interaction. Ms. Topovski stated she would ask the anticipated speaker from the Maryland Geological Survey to address in further detail when he speaks at the March meeting.

9. Manor View Site/Non-Time Critical Removal Action Update:

a. Mr. Fluck introduced Mr. Tom Crone of ARCADIS to provide an update on the upcoming removal action at the Manor View Dump Site.

b. Mr. Crone said he would be providing an update to his presentation at the last Board meeting as the field work is scheduled to begin in February 2012.

c. Mr. Crone showed an aerial photograph of the site and pointed out the area which contains waste that is generating methane. He noted this area is the focus of the removal action.

d. Mr. Crone reviewed the progress to date and noted the public comment period on the Engineering Evaluation/Cost Analysis has been completed. He said three public comments were received, and they will be addressed in a Responsiveness Summary by the end of January; he noted the Responsiveness Summary would be added to the administrative record which is available for public review. He stated the work plan should be finished by the first week of February, and the work should be initiated around February 13. He advised the work plan had been approved by Maryland Department of the Environment, and several comments from EPA are being addressed. Mr. Crone said a final report on the action will be submitted in the summer.

e. Mr. Fluck asked Mr. Crone to discuss the additional Geoprobe<sup>TM</sup> work to be done before mobilizing for the removal action. Mr. Crone reminded the Board that the excavated waste will be taken by truck to the King George Landfill. He continued explaining that samples need to be collected to make sure the waste is properly characterized for disposal. He said 16 samples will be collected with a Geoprobe<sup>TM</sup> unit at the end of January for this purpose.

f. Mr. Crone summarized the schedule noting mobilization and site preparation will start around February 13 and continue over a period of four weeks. He said the excavation, transportation, disposal and backfill activities will then occur over the next nine weeks, followed by 10 days of site restoration including seeding and mulching. He emphasized the health and safety plan, including ongoing air monitoring, will be in operation during all activities to ensure site workers and the community are protected.

g. Mr. Berkoff asked about communications if an unexploded ordnance item is encountered during the work. Mr. Crone responded that the personnel working on-site are trained and prepared to identify potential hazards. He said if an item is found, there would be immediate notification to Fort Meade. Mr. Fluck added that Fort Meade would then make the decision on the agencies who needed to be notified.

h. Mr. Berkoff asked about coordination with the school. Mr. Fluck responded there has been ongoing, close coordination with the school. He added that he and Mr. Butler had met with the staff and faculty on November 9.

i. Mr. Berkoff asked for an estimate of how much waste will be excavated, and Mr. Crone responded about 13,000 cubic yards.

10. Update on the Manor View Site Recovery System:

a. Mr. Fluck introduced Ms. Amanda Duggins of ARCADIS. Ms. Duggins stated the methane readings over the past two months have been consistent with historical detections; she noted elevated concentrations continue to be seen in the center of the site where the waste is scheduled to be excavated. She advised there had been two shut downs on January 4 and 9, both caused by ice blockages in the system. She said ARCADIS responded, performed a full system inspection, and re-started the system with no issues.

b. Mr. Fluck asked Ms. Duggins if there had been any detections at the perimeter, and Ms. Duggins stated there had not been any detections at the perimeter.

11. Update on the Odenton Groundwater Contamination Interim Measures Project:

a. Mr. Fluck introduced Ms. Shelly Morris of ARCADIS/Malcolm Pirnie.

b. Ms. Morris showed a map of the study area and referred to the well survey mentioned earlier by Mr. Cherry. She reiterated that no contamination had been detected in residential wells downgradient of the two monitoring wells. She stated at this time the focus was on work at the Nevada Avenue area where there had been one detection in one residential well. She stated the purpose of the current work is to determine whether Fort Meade contributed to that contamination.

c. Ms. Morris displayed the sampling data results for the last 12 months and stated there have not been any exceedances of the maximum contaminant levels since the initial detection. She also showed a trend chart of the data. Ms. Topovski asked if the results had been provided to the owners, and Ms. Morris stated they receive the results in a letter each month, and bottled water continues to be provided.

d. Ms. Morris discussed the next steps in the project which includes installing seven wells, with four of the wells being located off-post. She stated the documents needed to obtain access to the properties where the wells will be installed are being prepared. Ms. Morris advised some repairs to several monitoring wells had been completed. She stated the work plan was approved in August. She said they are working on obtaining right of ways and the appropriate paperwork to begin drilling. Ms. Morris said the upcoming work also includes repairs to monitoring wells 125 (deep), 123 (shallow), 126 (deep), and 124 (shallow). She advised the drilling is expected to begin in December.

10. Open Discussion/New Business:

a. Mr. Fluck advised the annual updating of the Installation Action Plan is underway. He explained this document provides a brief overview of all projects funded by the Defense Environmental Restoration Program, including schedules. He stated one is prepared for the active sites and one for the BRAC sites. He noted an internal version will have cost information while the public version will not because the cost information is procurement sensitive. Mr. Fluck said a draft of the document should be available to Board members in a few months.

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b. Mr. Fluck and Mr. Butler discussed the Fort Meade EMS [environmental management system] web site. Mr. Butler advised they are currently in transition with the web site due to the expiration of a contract. He said the information may transfer to the main Fort Meade web page or it may be temporarily unavailable. He asked for the Board's patience and said he would provide an update at the next meeting. Mr. Fluck said he would email any documents to the Board during the transition period.

c. Mr. Fluck reminded the Board that the next meeting will include a presentation by the Maryland Geological Survey. He invited Board members to let him know of any other potential topics. Mr. Tibbetts suggested a discussion of the 2010 recommendations from the Federal Facility Dialogue might be a possible topic.

d. The meeting was adjourned at 8:36 p.m.



for

MICHAEL P. BUTLER  
Chief, Environmental Division

CF:  
RAB MEMBERS  
FGGM GARRISON COMMANDER  
PUBLIC AFFAIRS OFFICE