



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

September 8, 2010

MEMORANDUM FOR: Restoration Advisory Board Members

SUBJECT: Minutes for the July 15<sup>th</sup>, 2010 Restoration Advisory Board Meeting

1. The Restoration Advisory Board (RAB) meeting was held on July 15, 2010, at 7 p.m. at the Captain John Smathers Army Reserve Center, Hwy 175, Fort Meade, Maryland. The next RAB meeting will be **Thursday, September 16, 7 p.m.**, at the Captain John Smathers Army Reserve Center.

2. The following RAB members were present:

Mr. John Burchette, U.S. Environmental Protection Agency  
Mr. Mick Butler, Fort Meade Co-Chair  
Mr. Wayne Dixon, Community Member  
Mr. Paul Fluck, Fort Meade Restoration Manager  
Ms. Laurie Haines, Army Environmental Command  
Mr. Howard Nicholson, Community Member  
Mr. David Tibbetts, Community Member

3. Members not present:

Mr. Blight Carter, Community Member  
Mr. Ed Dosek, Community Member  
Ms. Kathy Scott, Community Member  
Ms. Kerry Topovski, Anne Arundel County

4. Others present were:

Ms. Summer Barkley	Fort Meade, Public Affairs Office
Mr. Steve Cardon	Fort Meade, Base Realignment and Closure Office
Mr. Walt Chahanovich	Fort Meade, Office of the Staff Judge Advocate
Mr. John Cherry	ARCADIS, Inc.
Mr. Brendan Daley	Fort Meade, Environmental Division
Mr. Butch Dye	Maryland Department of the Environment
Ms. Sarah Gettier	URS Corporation
Ms. Katrina Harris	Bridge Consulting Corp.
Mr. Ray Hodgson	Odenton Fire Department
Mr. Bill Hudson	U.S. Environmental Protection Agency, Public Affairs

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Ms. Shelly Kolb  
Mr. Tim Llewellyn  
Ms. Karen Nickerson  
Mr. Kurt Scarbro  
Mr. Dan Sheehan  
Mr. Harry Sinclair  
Ms. Denise Tegtmeyer  
Ms. Pamela Wood

Malcolm Pirnie  
ARCADIS, Inc.  
Bridge Consulting Corp.  
Maryland Department of the Environment  
Malcolm Pirnie  
Community Member  
Malcolm Pirnie  
Capitol Gazette

5. Announcements and Minutes:

a. Mr. Mick Butler called the meeting to order and asked everyone present to introduce themselves.

b. Mr. Paul Fluck thanked everyone present for attending. He expressed the Garrison's appreciation to Col. Ruf and his staff for the use of the facility. Mr. Fluck emphasized the importance of everyone signing in and out and discussed the location of building exits, restrooms, and vending machines.

c. Mr. Fluck advised that hard copies of meeting presentations would be provided to Board members and stakeholders; anyone else who would like a copy can obtain one from the Fort Meade web site ([www.fortmeade-ems.org](http://www.fortmeade-ems.org)). He noted this would minimize the amount of paper being used for the meetings.

d. Mr. Fluck discussed several staffing changes in the Fort Meade Environmental Division. He stated Ms. Alice Brown-Colon, administrative assistant, had taken a new position at Fort Myer, and he expressed his appreciation for her dedication to the Army and Fort Meade's environmental program. He advised she would be replaced by Ms. Maria Godwin, who brings a tremendous amount of Army experience to the position. Mr. Fluck advised that in response to the environmental office's ever growing workload, Ms. Denise Tegtmeyer from Malcolm Pirnie would be coming on board.

e. Mr. Harry Sinclair asked if it was possible to get the agenda and the previous meeting minutes prior to the meeting. Mr. Fluck said he would work on adding Mr. Sinclair to the distribution list. He noted the information is also available on the web site ([www.fortmeade-ems.org](http://www.fortmeade-ems.org)).

f. A motion was made, seconded and unanimously adopted to approve the May 20, 2010 minutes as presented.

6. Outstanding Items:

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Mr. Butler confirmed there were no outstanding items.

7. Groundwater Contamination in Odenton Area/Interim Measures:

a. Mr. Butler introduced Ms. Denise Tegtmeier from Malcolm Pirnie, an Army contractor, to update the Board on the interim measures for groundwater in the Odenton area.

b. Ms. Tegtmeier displayed a map showing the study area for the off-post groundwater investigation. She stated the study area was a one-mile radius surrounding deep monitoring wells MW-125d and MW-126d, which were located at the intersection of North Patuxent Road and Dovetail Lane in Odenton, as well as homes with private wells on Old Dairy Farm Road. She reminded the Board the reason for the investigation is that in 2008 and 2009 the two deep monitoring wells were sampled and elevated detections of carbon tetrachloride, [trichloroethene], and tetrachlorethylene (PCE) were found.

c. Ms. Tegtmeier discussed the project decision tree noting a door-to-door survey was conducted to find out who had private wells and to offer bottled water to those property owners while the wells were sampled.

d. Ms. Tegtmeier advised that of the more than 2,500 properties within the study area, information had been received for just under 1,700 properties. She stated 75 properties have been confirmed as using private wells as their primary drinking water source, 14 wells remain unconfirmed but may be used as a primary drinking water source, and 21 wells are confirmed but used for purposes other than drinking water.

e. Ms. Tegtmeier stated personal visits were conducted with Mr. Bill Hudson of the U.S. Environmental Protection Agency [and representatives from Fort Meade and Malcolm Pirnie] to try and contact homeowners where county records indicated a private well was present on their property. She advised certified letters were sent to 12 properties to confirm their decision to not participate in the sampling, with seven confirmations received and five still outstanding. She stated one property on Old Dairy Farm Road has asked to participate in the sampling.

f. Ms. Tegtmeier displayed a map showing the results of the survey.

g. Ms. Tegtmeier discussed the sampling of the private drinking water wells, noting the sampling was initiated on June 5, 2009 with a plan to sample each well twice within a 60-day period. She stated 59 wells were sampled in the first round and 56 wells were sampled in the second round. She advised of the 75 targeted properties some owners/tenants have been unresponsive to the sampling request, some have declined sampling, and some have not been available when scheduled. Ms. Tegtmeier showed a map with the locations of the properties participating in the program and the status of the sampling program.

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h. Ms. Tegtmeier discussed the results of the private drinking water well sampling and noted only one property on Nevada Avenue has shown any chemicals above the Federal maximum contaminant level; she advised PCE had been detected at this well in September and February. She stated the resident is receiving bottled water. Ms. Tegtmeier advised the private well is not in the projected downward gradient from MW-125d or MW-126 but is approximately 3/4 quarter-miles cross gradient. Ms. Tegtmeier noted properties on either side of the Nevada Avenue property are also being sampled monthly.

i. Ms. Tegtmeier noted bottled water is still being supplied to 44 properties included in the sampling program and discontinuing the supply of bottled water would only be done at the resident request [or at the completion of the Interim Measure].

j. Ms. Tegtmeier reviewed the next steps in the project which include finishing the private well survey by following up on people who have not yet responded to the certified letter; she noted if anyone declines now, they will be allowed to participate later. She noted a few properties need to be sampled a second time. Ms. Tegtmeier stated three reports would be prepared summarizing the project and results, and drafts would be submitted in August and September of 2010.

#### 8. Operable Unit 4 Remedial Investigation:

a. Mr. Butler introduced Mr. John Cherry of ARCADIS, Inc., an Army contractor, to provide an update on the status of work at Operable Unit 4.

b. Mr. Cherry reviewed the topics he planned to discuss including the contract objectives, the regional geologic structure as requested at a previous Board meeting, the different phases of the ongoing remedial investigation, the approach being used with frequent technical calls to the regulators, and the next steps in the project.

c. Mr. Cherry noted that ARCADIS' contract includes work through 2015 at six sites at Fort Meade. He stated he would be discussing one of those sites, Operable Unit 4, located in the southeast corner of the Installation. He explained the site includes the industrial corner of Fort Meade and also the groundwater contamination that has extended into the Odenton area. Mr. Cherry said the short-term objective is to finalize a decision document.

d. Mr. Cherry explained the Operable Unit 4 Remedial Investigation would address the groundwater issues previously discussed by Ms. Tegtmeier. He explained the investigation would focus on finding and evaluating sources and developing a final remedy to address the contamination. Mr. Cherry stated much work had been completed recently, and the data is

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starting to show some connection between the off-post contamination and the Operable Unit 4 area; additional investigation will confirm whether there is a connection.

e. Mr. Cherry displayed a model of the basic regional geologic structures at the site which he explained consists of the Patapsco Formation (upper, middle and lower), the Arundel Clay (a confining unit), and the Patuxent Formation. Mr. Cherry pointed out that the location of Fort Meade was indicated by a star on the drawing. He stated both the Upper and Lower Patapsco Formations are drinking water aquifers in the area, and the Lower Patapsco Formation is the one being investigated as it is used for drinking water off-post. He said all units of the Patapsco Formation outcrop in the area being studied.

f. Mr. Cherry noted that ARCADIS is reviewing all the previous work done by the Army and its contractors in recent years. He stated more than 150 monitoring wells and borings in the area are being studied, and all the data from these wells is being thoroughly evaluated.

g. Mr. Cherry showed cross-sections of the geology to visualize what is occurring in the sub-surface. He pointed out the location of a known source [of groundwater contamination] in the Operable Unit 4 area, the former laundry facility. He also showed the location of the Closed Sanitary Landfill, noting it is separated from the Lower Patapsco Aquifer by the thick Middle Patapsco Formation [clay unit].

h. Mr. Cherry stated there are two supplemental remedial investigation phases in progress at Operable Unit 4. He explained the first phase is focused on the area just south of Route 32 and is evaluating known and potential sources and addressing data gaps. He stated some monitoring wells will be installed. Mr. Cherry said the data from the first phase will help develop the second phase which will focus more on the off-site areas.

i. Mr. Cherry described the technical approach as dynamic and including the ability to make decisions as the work progresses. He explained that state-of-the-art technology was being used to provide real time data to the Army and regulators; he stated SharePoint and Live Meetings are being used to ensure everyone has access to the data quickly which makes telephone calls very productive. Mr. Cherry said the drilling work has been underway for four weeks, and six Live Meetings have been conducted. He explained conference call participants can log in through the web site and view maps and figures which greatly enhances the discussions and allows decisions to be made in a timely manner while the field work is ongoing. Mr. Cherry advised that some sampling locations were moved based on the telephone discussions.

j. Mr. Cherry displayed another view of the cross section he had shown earlier and explained how it was being updated as data was collected.

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k. Mr. Cherry discussed the technologies being used. He stated a cone penetrometer was used for several weeks in March to evaluate shallow source areas and to gather some geotechnical information on the soil. He explained the cone penetrometer was used in conjunction with the membrane interface probe to provide helpful information on the contamination in the ground. He continued explaining that as the work progressed, the roto-sonic drill technology was used which also provided helpful information on the geology 100 to 200 feet deep below the surface as it allows continuous four-inch core samples to be collected.

l. Mr. Cherry said to date five borings have been completed. He noted additional borings will be done on the Architect of the Capitol property when the rights-of-entry forms are completed.

m. Mr. Cherry discussed some preliminary observations. He stated carbon tetrachloride has been detected in the Lower Patapsco Formation. He said it is known that carbon tetrachloride has been detected off site, but there previously had only been one detection on-site. He advised that the recent borings seem to indicate there is some connection between the on-site and off-site detections; however, all the information is not in but progress is being made. He advised there have also been some benzene detections in the Lower Patapsco Formation.

n. Mr. Cherry discussed the remaining work to be completed in phase one, noting that all the data gathered during phase one will help plan phase two which will focus on the downgradient area and off-site locations.

o. Mr. Cherry advised the initial plans for phase two will include six off-site monitoring wells using roto-sonic drilling, with four or five groundwater samples from each boring as the drilling progresses. Mr. Cherry showed a figure with the proposed monitoring well locations. He noted the proposed locations were carefully chosen after evaluating existing well locations. He stated a main objective of phase two is to gather information to address identified data gaps.

p. Mr. Cherry stated that right of way applications have been submitted to the County for access to drill the wells; the applications are moving forward quickly. He advised the community would be informed through a public notice, a poster session, and a fact sheet. Mr. Cherry said continued technical calls with the regulators are anticipated.

q. Mr. Cherry advised the data from the phase one and phase two investigations will be compiled into the remedial investigation report.

r. Mr. Cherry outlined the next steps in the project noting that phase two work should be completed in the early fall and a remedial investigation/feasibility study report submitted in mid-2011. He stated a proposed plan would follow, and after a record of decision is signed, a remedial design would be completed on the final remedy selected.

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s. Mr. Wayne Dixon asked if one or more sources on the Installation have been identified and if off-post sources along Route 175 are still being investigated. Mr. Cherry responded that some sources have been identified on post. Mr. Fluck added that current or former laundries on Route 175 may be sources for contamination but are not likely connected to Operable Unit 4; however, there may be a connection with the Nevada Avenue contamination. Mr. Fluck explained the additional monitoring wells which are scheduled to be installed in that vicinity in the early fall will provide the needed data to answer these questions and determine whether it is an issue for the Army to address or whether future work would have to be conducted by another appropriate party. Mr. Fluck said the Board will be updated on results as they are received.

9. Manor View Site Gas Recovery System Update:

a. Mr. Butler stated that Mr. Cherry would give an update on the methane monitoring being conducted at the Manor View Site.

b. Mr. Cherry reminded the Board that methane readings are collected on a weekly basis at the Manor View Site and provided to the Board at each meeting.

c. Mr. Cherry reviewed the most recent readings and stated no methane had been detected near the school during the last four weeks. He said the results from 40 of 52 sample locations showed no detections. He advised the balance of the detections were in line with previous readings with elevated levels detected in the northwest corner which is the known location of buried waste. Mr. Cherry noted that work is planned in the upcoming months to address the waste and begin moving towards a final remedy for the site. He stated that operationally the system ran well with the only shutdowns related to excessive heat which caused the circuit board to overheat. Mr. Cherry advised the overheating issue has been addressed and it is not anticipated to happen again in the future.

10. RAB Membership/Community Co-Chair Election:

a. Mr. Butler introduced Ms. Summer Barkley of Fort Meade's Public Affairs Office to discuss actions taken to increase Board membership.

b. Ms. Barkley advised that letters had been sent to 16 community organizations inviting them to participate on the Board; she stated a list of the organizations would be provided for the minutes. She stated she had been contacted by four of the 16 organizations, and one organization, the Odenton Volunteer Fire Department, had a representative present at the meeting. Ms. Barkley noted the County Council had also been contacted and asked for the names of anyone who might be interested in the Board. Ms. Barkley invited Board members to let her know of anyone else who should be contacted.

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c. (The 16 organizations were: West Anne Arundel County Chamber of Commerce, Odenton Volunteer Fire Department, Greater Odenton Improvement Association, Knights of Columbus, Greater Crofton Chamber of Commerce, Crofton Civic Association, Odenton Heritage Society, American Legion Laurel Post 60, Piney Station at Piney Orchard Homeowners Association, Forks of Patuxent Improvement Association, Russett Community Association, Seven Oaks Homeowners Association, Piney Orchard Elementary School, The Vineyards Property Manager, Anne Arundel County Land Use and Environmental Office, Anne Arundel County Office of Environmental and Cultural Resources, and Anne Arundel Councilman G. James Benoit.)

d. Ms. Barkley stated ads had been placed in the Installation newspaper, The Soundoff, which so far has generated one query. She advised ads would be appearing in the weekly newspapers, and a larger article for The Soundoff will appear before the next Board meeting.

e. Mr. Howard Nicholson distributed a copy of the current Restoration Advisory Board charter with two proposed amendments to the charter. He discussed the first amendment which would provide for community associations/organizations to have a seat on the Board and be responsible for sending a representative to the meetings. Mr. Nicholson said the second amendment would address ongoing membership being assessed at the end of each year. Mr. Nicholson requested the Board review the proposed changes and discuss them at the next meeting.

f. Mr. Butler noted the community co-chair election would be held at the next meeting. Mr. Butler asked for nominations, and Mr. David Tibbetts said he would be interested in serving in the position. A nomination was made for Mr. Tibbetts as the community co-chair. Mr. Butler invited anyone else interested to let him know.

#### 11. New Business/Open Discussion:

a. Mr. Fluck thanked everyone for attending and their service to Fort Meade's environmental program. He encouraged everyone to visit the web site ([www.fortmeade-ems.org](http://www.fortmeade-ems.org)) which is updated on a regular basis. Mr. Fluck said the web site is an important tool for conveying information to the community, and a few weeks ago he had uploaded the amended Site Management Plan that describes all the environmental sites at Fort Meade, well over 100 areas of interest. He encouraged everyone to look at the document since it is in the review process, and it is a good time to make comments or ask questions. He explained the Site Management Plan is a CERCLA (Comprehensive Environmental Response, Compensation and Liability Act) document required under the Federal Facility Agreement.

b. He noted most CERCLA documents have a 60 day review period, but the Site Management Plan is unique in that it has a 30-day review period; however, EPA has exercised the right to extend the review period by 20 days making July 30 the deadline for comments.

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12. The Board agreed upon September 16, 2010 as the date for the next meeting.
13. The meeting was adjourned at 8:16 p.m.

  
MICHAEL P. BUTLER  
Chief, Environmental Division

CF:  
RAB MEMBERS  
FGGM GARRISON COMMANDER  
PUBLIC AFFAIRS OFFICE