

**Defense Logistics Agency
THE MEMPHIS DEPOT
RESTORATION ADVISORY BOARD**

Agenda

**Thursday, March 15, 2001, 6:00 p.m.
The Memphis Depot Business Park, "J" Street Cafe
2163 Airways Boulevard
Memphis, Tennessee 38114**

Welcome and Introductions	3 min.	Mr. John DeBack Interim Facility Co-Chair Mr. Mondell Williams Community Co-Chair
Review and Approve March Agenda	1 min.	Mr. Mondell Williams
Old Business		
Community RAB Housekeeping Issues	2 min.	Mr. Mondell Williams
New Business		
Groundwater Pumping System Update	30 min.	Mr. Virgil Jansen Jacobs-Sverdrup
Chemical Warfare Materiel (CWM) Update	10 min.	Mr. Clyde Hunt Remedial Project Manager, The Memphis Depot U. S. Army Corps of Engineers
Depot Redevelopment Corporation (DRC) Update	5 min.	Mr. Jim Covington President, DRC
Base Realignment and Closure Cleanup Team Update	5 min.	Mr. Jim Morrison Tennessee Department of Environment and Conservation
Public Comment Period	15 min.	Mr. Mondell Williams
RAB Comment Period	15 min.	Mr. Mondell Williams

ADJOURN MEETING

CWM Weekly Briefings – 10:00 a.m.

Wednesdays—March 21, 28

April 4, 11, 18, 25

*The Memphis Depot Community Outreach Room
2163 Airways, Building 144*

Note: These minutes were approved at the May 17, 2001 RAB meeting held at Alcy Elementary School.

MEETING MINUTES
Restoration Advisory Board
March 15, 2001
The Memphis Depot
"J" Street Cafe, Building 274

The Restoration Advisory Board (RAB) meeting was held at 6:00 p.m. on March 15, 2001 at the Memphis Depot, Memphis, Tennessee in the "J" Street Cafe, Building 274, 2163 Airways Boulevard. The attendance list is attached.

WELCOME AND INTRODUCTION

1 MR. WILLIAMS: Okay, we're about ready to call the meeting to order. I would like to
2 welcome everyone to the RAB meeting for March. I hope that since we met
3 that everyone has been okay.
4

5 **REVIEW AND APPROVE MARCH AGENDA**
6

7 MR. WILLIAMS: So we're going to start off the RAB meeting by asking everybody if they
8 reviewed the agenda. If there are no changes or if anyone would like to
9 make any changes, please do so now. If not, I would like to approve the
10 agenda.

11 MR. TYLER: So moved.

12 MS. YOUNG: Second.

13 MR. WILLIAMS: Did I get a second?

14 MS. YOUNG: I seconded.

15 MR. WILLIAMS: All in favor?

16 THE BOARD: Aye.

1 MR. WILLIAMS: Agenda approved. The minutes are in front of you, and when you get a
2 chance you can read them. If you have any problem with the minutes, you
3 can either email Alma. Okay, they will be reviewed at the May meeting.

4
5 Okay, so I will go on. First of all, I would like to welcome Mr. Bolding, --
6 or Dr. Bolding - he's a professor at the University of Memphis, and he has
7 his geographical class here -- geography class here. I would like for them
8 to stand to be welcomed if they don't mind.

9
10 **OLD BUSINESS - RAB HOUSEKEEPING ISSUES**

11
12 MR. WILLIAMS: I have some good news and some bad news. Ms. Willett, she has resigned
13 from the Board. She's being reassigned to be the principal on Holmes
14 Road at Holmes Road Elementary. She has a letter here I'm going to pass
15 around. Everyone has it? Okay.

16
17 And next I would like for everybody to take a moment to look at this list
18 of all the subcommittees. We are looking for at least five people to
19 volunteer for each one of the subcommittees that we have. One is for the
20 Charter Subcommittee, the TAPP Subcommittee and the Membership
21 Subcommittee. So I'm going to pass this list around here, and if you feel
22 like you would like to volunteer for one of these committees, please sign
23 your name on here. (indicating) But we're looking for at least five people.
24 We would love more, but we're looking for five.

25
26 I have a list here of all the members' addresses and phone numbers. We're
27 trying to update the listing so we make sure we'll be able to inform and get
28 in touch with all the RAB members when we need to. I'm going to pass
29 this around. If all your information is correct, just put okay by it. If not,
30 put the pertinent information by it if we need to be able to reach you.

1 And I have one more thing I want to pass by here, and this is -- we have a
2 birthday list that we normally keep up with for the RAB members. We
3 want to pass this around and make sure that we have the right dates of
4 your birthdays. So if you put the month by them, I think we will be okay
5 here, and the date of your birthday, I think we'll be all right. So I'm going
6 to pass that around, too.

7 MR. TYLER: The month and the date? I don't have a problem with the year but folks
8 (inaudible).

9 MR. WILLIAMS: Okay, we'll do that.

10 MR. DEBACK: Welcome everybody. I've just got a couple of things that I would like to
11 point out that you have in your packets. One is a copy of our tentative
12 RAB presentation schedule for the next year. As best as the events unfold,
13 that's the schedule that we'll use to keep you abreast of the events as they
14 occur.

15
6 I also would like to take a moment and introduce to you -- I know all of
17 you know Clyde Hunt. He is with the Memphis District, Corps of
18 Engineers. We have contracted actually an agreement with the Corps to
19 have Clyde come over full time with us to be the Remedial Program
20 Manager. In that respect, he's replacing Shawn Phillips, and he will be
21 taking on about 98 percent of Shawn's duties. The other 2 percent will fall
22 over to me.

23
24 So, I hope that you all will give Clyde the same support that you've given
25 Shawn in the past. I assure you that Clyde will be as available as Shawn
26 has been to any of you to answer any questions. In your packet we've
27 included a short biography to give you a little background on Clyde.

28
29 Mr. Tyler asked last month about the status of a letter that he had written
30 to DLA (Defense Logistics Agency). I checked with Shawn, and we
1 finally located the letter. It's in the bowels of the DLA arena. They are

1 staffing the letter, and we're expecting a response, but we have located the
2 letter. It's up in the DDC, the Defense Distribution Center, being staffed
3 for a response.
4

5 **NEW BUSINESS - GROUNDWATER PUMPING SYSTEM UPDATE**
6

7 **MR. WILLIAMS:** Okay, under New Business I guess we'll get started with the presentation
8 for the groundwater pumping system update.

9 **MR. DEBACK:** For the groundwater pumping system update we're going to have Virgil --
10 I've got a memory lapse -- Virgil Jansen. He's been introduced to you
11 before as being from Sverdrup Corporation. That corporation has merged
12 with a company called Jacobs. So now officially Virgil is an employee of
13 Jacobs, and he will be giving you an update on the pumping system over
14 at Dunn Field.
15

6 In May, we plan to give you additional information on the total
17 groundwater program. Excuse me - in June. In June we're going to give
18 you additional information on the total groundwater program. So tonight
19 the only thing we're going to cover are the updates on the pumping system
20 over at Dunn Field. With that, I will turn it over to Virgil.

21 **MR. JANSEN:** Good evening. As Mr. DeBack indicated, my name is Virgil Jansen. I'm
22 from Jacobs Engineering. We have the Remedial Action Contract here at
23 the Memphis Depot. Remedial action, of course, means the actual cleanup
24 work, not investigations and studies and designs, but cleaning up the
25 various contaminated areas on the facility.
26

27 We are under contract with the U.S. Army Corps of Engineers, Mobile
28 District. Our contract is for a term of approximately four years, and this is
29 the second major remedial action that we've conducted. Some of you will
30 remember that we also did the cleanup of the paint booth and sandblast

1 area building. That area is now being leased to Barnhart Construction or
2 Equipment, and that project is well complete.

3
4 What I want to do this evening is just give you a brief overview as to what
5 has gone on in the past several months in terms of the groundwater
6 recovery system that is in place at Dunn Field. I'll talk about -- give you a
7 little background as to where the wells are located and why they're located
8 there. I will talk specifically about the various upgrades that we've
9 performed as part of this project. I'll give you a little bit of information,
10 also, about the details about how the system has operated during the time
11 that it's been in operation and, finally, go on to some discussion of the
12 ongoing actions and the next steps associated with this groundwater
13 system.

14
15 MR. JANSEN: Okay, in October, November of 1998 this groundwater extraction system
16 was placed into operation for the first time. It consisted of seven wells
17 that were located along the western boundary of Dunn Field beginning at a
18 point here (indicating), which is the corner of Area B, and the corner here
19 (indicating). There were, as I said, seven wells installed at that time. They
20 were installed to a depth of 100 feet. That is the depth of the shallow
21 groundwater system that exists underground, under Dunn Field.

22
23 There is a much deeper groundwater system at approximately 300 feet in
24 depth, and that is called the Memphis Sands Aquifer. That is where the
25 city of Memphis draws their water. There is no known interconnection
26 between this shallow groundwater system and the groundwater system
27 from which the city of Memphis draws their wells -- draws their water for
28 public supply.

29
30 These seven wells were installed as part of an interim cleanup action to
31 control the groundwater flow under Dunn Field. The predominant

1 groundwater flow direction on Dunn Field is from east to west. There are
2 slight variations, but predominantly from east to west, and that was the
3 reason why the seven wells were installed along the western boundary.
4 The purpose of this system was simply to remove groundwater that has
5 some contamination in it and redirect it or discharge it to an underground
6 pipeline that carries it to a city of Memphis sanitary sewer manhole
7 located on Person Street. Eventually, it's transported to the city of
8 Memphis wastewater treatment facility, the Stiles Treatment Facility.

9
10 In late 1999, four additional wells were added to this system in
11 anticipation of the upgrades that have just occurred. There was an
12 opportunity to install the wells but not do anything, to put them in in late
13 '99, because of availability of monies and changing of contracts. They
14 were installed by another contractor other than us. But, as I said, it was an
15 anticipation of this upgrade and expansion of the system.

6
17 MR. JANSEN: In the year 2000, the upgrade of the system has occurred. We began the
18 fieldwork in October of 2000 and completed it just a couple of weeks ago,
19 in March - March 5 through March 8 - with the startup of the system.
20 In 2001 there will be a total of 11 fully operational groundwater wells.
21 This draw -- we had intended to show all of this information, except for
22 this drawing, on our computer, but since we only have the overhead
23 available to us, this is just to give you an indication of where the wells are.
24 As I said, the initial wells were seven wells, RW (Recovery Wells) 3, 4, 5,
25 6, 7, 8 and 9. This is the western property line of Dunn Field. The new
26 work involved the installation of Recovery Wells 1A, 1B and 2.

27
28 I will give you a few more specifics as to what we have done now in terms
29 of the system upgrade. This project occurred between October and March
30 -- October of 2000 and March of this year. We replaced pumps on six of
1 the seven existing groundwater treatment plants. The original pumps were

1 larger than the current pumps that are in. The reason for the change out
2 was to try to get a more consistent flow rate rather than to operate the
3 pumps on an on/off operation type situation, continuously cycling.

4 We also performed some modification to the wellhead assemblies. This is
5 the piping that's above the ground at each of the wells. (indicating) We
6 installed new flow meters because, again, there was going to be reduced
7 flow with the smaller pumps, and some control and instrumentation
8 modifications were made.

9
10 I mentioned that we replaced the pumps on six of the seven existing wells.
11 Recovery Well Number 3 had this operation performed, again by another
12 contractor, in the summer of year 2000. There was some difficulty trying
13 to maintain that particular well in continuous operation. So that particular
14 well was upgraded before the rest of them.

15
16
17 5 MR. JANSEN: At Jacobs, we approached this project by acting as a construction
18 manager. We assumed the responsibilities of health, safety and quality
19 control and hired subcontractors to perform the fieldwork. We had two
20 subcontractors during this project. Both of them are small businesses.
21 Ferguson Harbor was hired to do the mechanical work, install the pumps,
22 piping and do the excavation and backfill. They're a small business here
23 with an office in Memphis. The other contractor we hired was Allied
24 Electrical, for several reasons. One is that Allied had performed this work
25 with the original installation in late 1998. They are a small disadvantaged
26 business with their office here in Memphis. By taking this approach to the
27 construction, we were able to exceed our commitment that we had during
28 the original proposal submittal to utilize small businesses and small
29 disadvantaged businesses.

30 Just to give you some numbers that are not on the drawing, we had a total
1 contract value of about \$700,000 dollars. We subcontracted \$513,000

1 dollars of this work or a total of 67 percent. Two hundred fourteen
2 thousand dollars went to Ferguson Harbor, which represent 42 percent of
3 the subcontracted dollars. Two hundred ninety-nine thousand dollars went
4 to Allied Construction -- Allied Electrical Contractors, which represented
5 58 percent of the total amount of work subcontracted.

6
7 Just to give you an idea as to how this system is operating and its
8 effectiveness, you can see the information that's presented up here.
9 (indicating). Since the system started operating in November of 1998, we
10 pumped a total of 82 million gallons from the groundwater into the
11 sanitary sewer system of the City of Memphis. During the year 2000, we
12 pumped 24.7 million gallons. These two numbers reflect an interesting
13 trend that we found there. The total volatile organic compounds (VOCs) -
14 - these are carbon compounds that have a tendency to vaporize if exposed
15 to the air -- have decreased with time by about 50 percent. Now, this is
16 measured in the groundwater that's discharged into the sanitary sewer
17 system. It doesn't reflect anything as far as the contaminant levels in the
18 ground at specific monitoring wells or at individual wells. But it takes the
19 discharge from the system, and we've measured that.

20
21 MR. JANSEN: In 1998, when this started, we started out at 570 parts per billion of total
22 VOCs. As you can see, in the year 2000 over the last couple of months,
23 we were at about 280 parts per million. So the contaminant concentration
24 has decreased approximately 50 percent over the two plus years that the
25 system has operated. One of the primary components that has the largest
26 contribution of contaminants or percentage of this total volatile organic
27 system is a chemical called trichloroethylene, TCE. This individual
28 chemical has decreased by about 25 percent in the water that's being
29 discharged from these recovery well systems. As you can see, again, in
30 1998, it started out at 230 parts per billion and is currently averaging about
31 125 parts per billion.

1
2 Now at the June RAB meeting we'll present a great deal more specifics
3 about the groundwater conditions at Dunn Field. I just wanted to give you
4 this brief update as to, you know, what the system is actually achieving.
5

6 The last topic of discussion this evening is what are the ongoing activities
7 and next steps that are going to happen there. There are two primary
8 aspects of the ongoing activities. We're going to continue pumping the
9 groundwater from beneath Dunn Field and discharging it to the sanitary
10 sewer system through the eleven recovery wells that are now in place.
11 We'll also continue monitoring the effectiveness of the groundwater
12 pumping system by measuring the affluent, determining its concentrations
13 on a quarterly basis.
14

15 MR. JANSEN: One additional and very important aspect of the Dunn Field site and
16 groundwater contamination that exists there is that currently a Remedial
17 Investigation (RI) is being conducted. The purpose of this Remedial
18 Investigation is to define the nature and extent of the impact of
19 contaminants on the groundwater and establish a Baseline Risk
20 Assessment for that groundwater.
21

22 This final report for this investigation is due in October 2001. This is a
23 report that is being prepared by CH2M Hill as the engineer --
24 architect/engineering design company under contract with the Huntsville
25 Army Corps of Engineers.
26

27 That concludes my presentation. I will take questions. I guess I'll take
28 them at this point rather than wait toward the end. So if anyone has them,
29 I'll put up the overhead which shows the specific location of the wells. If
30 there is a specific slide that you would like to see again, we'll put that up
1 as appropriate.

1 MR. WILLIAMS: Before we open up the floor, I would just like to give an insight on
2 something here since we've gained the interest of the students here from
3 the University of Memphis. I would like for them to know that this Board
4 here consists of members of the community, as well as members --
5 representatives of our community. We have members here that are
6 members of the DOD (Department of Defense) or are employed by the
7 DOD.

8
9 This Board is set to consist of the members like this to make sure that the
10 interest of the community is taken into place, as well as the facility being
11 cleaned up to a level that is liveable for the community. So as you hear
12 the questions that will be asked from some of the RAB members, they are
13 showing an interest in what is going on in the community. It shows we are
14 activists, or trying to be interested in our community and trying to take a
15 certain path to make sure that everything is being taken care of.

6
7 So I'm going to open the floor for the RAB members to start asking
8 questions, and I'm going to start off with Mr. Brayon.

19 MR. BRAYON: When you say "DOD," you should tell them it's Department of Defense.

20 MR. WILLIAMS: Okay.

21 MR. BRAYON: One question. Along Airways just south of Dunn, I saw lot of pumping
22 being done or drainage of water - and I know you are in Dunn Field - but
23 do you know anything about that or does anybody in DOD know anything
24 about that?

25 MR. JANSEN: Perhaps Mr. DeBack.

26 MR. BRAYON: There is a big operation right there on Airways and a lot of equipment, a
27 lot of draining right there by the fence area. And thank you for getting the
28 light fixed.

29 MR. WILLIAMS: Mr. Tyler?

30 MR. DEBACK: If I can respond. I'm not aware of what you're talking about, Mr. Brayon,
1 but I will certainly look into it and see if we can get you an answer.

1 MR. BRAYON: You are not aware?

2 MR. DEBACK: No. I was not aware of any water going out, and Mr. Covington has just
3 shook his head. He doesn't seem to be aware as well.

4 MR. COVINGTON: Just a bit of -- a location where we can go look at it?

5 MR. BRAYON: Okay, this is on Airways south of Dunn I guess about 2 or 300 feet. They
6 have a large plastic pipe, and it looks like they were draining something
7 from underneath the ground. They had cranes out, you know, digging
8 materials.

9 MR. DEBACK: That appears to be an underground cable that's being installed if you go
10 out there and look at it right now.

11 MR. BRAYON: That could be.

12 MR. DEBACK: You can see the ends of the cable protruding from the ground. I think
13 that's what you observed down there. I am aware -- I don't know who's
14 doing that. It's not our project, but it appears that they are putting in some
15 underground cable there. It may be MLG&W, and they were going under
16 the driveway.

17 MR. BRAYON: Okay.

18 MR. COVINGTON: I can address that one if you want me to. Jim Covington. That's telephone
19 cable. I mean, it's BellSouth or one of those subsidiaries or contractors
20 that's installing new cable to serve the Depot Business Park.

21 MR. WILLIAMS: Mr. Tyler?

22 MR. TYLER: Stanley Tyler. I have a few questions. Starting with number one, on a
23 scale of minimum, medium and maximum, are there enough wells up
24 there to do the job properly, and how did you arrive at eleven?

25 MR. JANSEN: We didn't do the design. We're the installation contractor. This was an
26 interim remedial action. It was done before all of the investigation was
27 complete. As I indicated in my last slide, the investigation for that site is
28 going to be completed 2001. The intention, as I understand it, was to put
29 something in place in 1998 in order to intercept the groundwater flow and
30 prevent what might have occurred between that time and the

1 implementation of whatever is found in the Remedial Investigation to sort
2 of jump start the cleanup at that point of the groundwater.

3 MR. DEBACK: Turpin?

4 MR. BALLARD: The question of how many wells - I can shed a little light on. The original
5 design - as stated, the additional seven wells - was based on groundwater
6 modeling done by the Waterways Experiment Station in Vicksburg, a
7 branch of the Corps. The modeling that was - Waterways Experiment
8 Station used a groundwater model with the available data to arrive at the
9 initial -- the first phase of the design, which incorporated the seven wells.
10 Subsequent to the system going operational, we've been collecting
11 quarterly monitoring data, both from the system and from the response of
12 the aquifer, to the extraction system, and that data has been input then to
13 the model to refine the model.

14
15 And also looking at the groundwater flow maps that have been generated
16 since the system went on line, we saw that the system wasn't getting
17 captured on the plume in the southern end of Dunn Field. So that's why
18 we, with the assistance of the Waterways Experiment Station and their
19 model, determined that four new wells were needed to complete the, you
20 know, boundary capture system. So there's your eleven wells.

21 MR. TYLER: All right, we only have five minutes, but I need to ask two more questions.
22 The second question, I notice on the map the wells seem to be contained
23 within Dunn Field. Why are there no wells in the surrounding community
24 to test to see exactly what's going on around the fence line and maybe a
25 block or so many radius miles around the fence line in either direction of
26 Dunn Field?

27 MR. JANSEN: Okay, the recovery wells, yes, they are all located on the western property
28 line. These are wells that extract water and discharge it to the sanitary
29 sewer system. You will see some of these other designations here.

30 MW32, MW37 - those are monitoring wells where we have the ability to

1 go in, sample, take water levels and monitor what's happening to the
2 groundwater under Dunn Field and off site.

3
4 All of these wells are off site, and by monitoring them, we can determine
5 what the system is doing, if it's performing as it was intended to and
6 proceed from there. Additionally, those monitoring wells provide a great
7 deal of information for the Remedial Investigation that will be complete in
8 October of this year.

9 MR. DEBACK: We currently have about 50 off-site wells, and that information -- that
10 additional information will be part of that June presentation.

11 MR. TYLER: One last question. What was the dieldrin level found in these water levels,
12 as you know, so many parts per billion? And at what threshold was the
13 EPA levels? Were they above so many -- so much above EPA, so much
14 below? Because I didn't see a dieldrin breakdown in this chart here.

15 MR. DEBACK: I think Turpin can answer that.

16 MR. BALLARD: Yes, I'll address that, too. Dieldrin wasn't one of the contaminants that
17 was creating risk in groundwater. Dieldrin was -- the risk from dieldrin
18 has been primarily associated with contact with surface soil. So we
19 initially were -- when we were doing our quarterly sampling, were
20 sampling, you know, a full scan. Based on the results, we've ratcheted
21 back to the contaminants which are showing up, which are the volatile
22 organic compounds, contaminants of concern I should say, the
23 contaminants that we use -- that we are -- let me back up. My tongue runs
24 away with me sometimes. Contaminants that are causing groundwater
25 risks, that would cause a risk if someone were ingesting the groundwater,
26 those are the contaminants that we're currently monitoring for on a regular
27 basis.

28 MR. TYLER: About the levels or parts per billion that EPA permits in the water, was
29 that spoken to?

1 MR. BALLARD: Everything that he has shown you up there exceeds the maximum
2 contaminant levels, all those concentrations. The groundwater that's
3 coming out of the extraction system exceeds the drinking water levels.

4 MR. TYLER: But my question basically asked is there -- when you people figure some
5 numbers, could you put the EPA safe level up there, like so many parts per
6 billion to the safe and so many parts below or so many parts above?
7 That's what I'm getting at.

8 MR. JANSEN: In regard to that, that information, again, is going to be presented at the
9 June meeting. I'm a contractor who installs wells, installs piping systems.

10 MR. DEBACK: We can do that, Mr. Tyler.

11 MR. JANSEN: And I don't do the investigations.

12 MR. TYLER: One last comment. Thank you for including a minority business and small
13 business in this \$700,000 dollars - trying to put so much money back in
14 the community. Thank you.

15 MR. WILLIAMS: Okay, I have a question. Okay, I have a question. I want to know the
16 flow of the water, the contamination. If it's flowing from this area to this
17 area, and with the pumping of the water, I want to know how long or when
18 do we see closure to the pumping of the contamination or when will we
19 see it?

20 MR. JANSEN: To predict a time for closure is impossible for me, again, as a contractor. I
21 don't know that even the engineers can predict a time when closure can be
22 accomplished. That's part of the reason for continuing the operation of
23 this system. So that we get closer and closer to that date.

24 MR. DEBACK: This pumping system is part of an interim remedy. The Remedial
25 Investigation and the Feasibility Study and the resulting Record of
26 Discussion is yet to come. That Record of Discussion will determine the
27 final remedy. It may include this pumping. It may include additional
28 remedies or it may include an alternate remedy. At this time, we don't
29 know.

30 MR. WILLIAMS: My first question wasn't answered; the flow of the water, the flow of the
1 contamination.

1 MR. JANSEN: The flow of the water, as I indicated earlier, as represented by the arrows
2 on this drawing, flow in a general east to west direction. And that, again,
3 was the reason for installing this line of wells along the western property
4 line, to intercept it before that water left the site.

5 MR. BALLARD: Mr. Williams? Turpin Ballard again. If I understand your question
6 correctly, I think what I can say is that we know enough to know that the
7 primary source of contamination is on Dunn Field, and the groundwater
8 flow is such that its carrying the contamination from Dunn Field to the
9 west.

10

11 The current extraction system's objective is to create a hydraulic barrier
12 which prevents the contamination from moving any further. That
13 contamination which is moving toward the system will be stopped by the
14 system. Anything that's moved beyond the system is still out there, and the
15 final remedy will deal with that as well as the source area and any
16 contamination on Dunn Field.

17 MS. PETERS: Johnnie Mae Peters. What I'm trying to find out; I know that we have
18 these wells and they are being monitored. By the time they finish the
19 cleanup at Dunn Field, will they close down the wells? Because I know
20 that there's some water that's going through these wells that's going on
21 down to the pumping station, you know, like down near Fuller Park. Is
22 that the same water that's coming out of these wells going down there?
23 You know, they have those pumps at the edge where the water is supposed
24 to go into a system, and it's being pumped to get -- and it goes down ---

25 MR. JANSEN: This system takes groundwater in the shallow aquifer underneath Dunn
26 Field and pumps it into the city's sanitary sewer system.

27 MS. PETERS: And it goes down past Fuller Park?

28 MR. JANSEN: Well, wherever the sanitary sewer system lines go; I don't know. But it
29 ends up at the Stiles Wastewater Treatment Facility.

30 MS. PETERS: Well, that's what I'm saying. It's down on the other side of Fuller Park, in
1 that area down there.

1 MR. JANSEN: Okay.

2 MS. PETERS: What I'm asking is when Dunn Field is completed, and you say that

3 everything is cleaned up and it's ready for any kind of use, will the

4 pumping continue and the wells still be monitored or will it be finished?

5 MR. JANSEN: That will really be decided in that Record of Decision that Mr. DeBack

6 just talked about as to what remedies are going to be employed to resolve

7 all of the issues that are currently there, and if the systems are no longer

8 needed, what to do with those systems.

9 MS. PETERS: Thank you.

10 MR. BALLARD: Turpin Ballard. Just to add on to that, I think the objective for the remedy

11 will be to, you know, get the site to cleanup and then, you know, close up

12 our tents and steal away silently into the night. You know, in other words,

13 there will be -- we're not going to run a system that we don't need

14 anymore, and so the wells would be abandoned, filled up. The equipment

15 would be, you know, excessed, sold off or disposed of, and, the site will

16 be made available for whatever its intended use is.

17 MS. PETERS: That's why I asked the question. I was just wondering will you ever -- the

18 water ever stop being contaminated so that could happen. That's what I'm

19 saying.

20 MR. DEBACK: Yes, ma'am.

21 MS. PETERS: Or does it have to continue as long as the land is there?

22 MR. BALLARD: No, no. Once it's clean -- no. When we turn the system off, we'll

23 probably continue to monitor for a few more rounds to make sure that, you

24 know, with the system off everything is still acceptable, and after that,

25 we'll declare success.

26 MS. PETERS: Thank you.

27 MR. WILLIAMS: Okay, we're going to let Mr. Brayon go ahead, but we're going to continue

28 on with the agenda.

29 MR. BRAYON: I certainly do appreciate that. Since we have Mr. Ballard -- and I don't

30 think this is your bailiwick, Mr. Jansen.

1 MR. JANSEN: I can step back.

1 MR. BRAYON: I know you enjoy that. But, Mr. Ballard, you had some testing done
2 several weeks ago, and have you received any results?

3 MR. BALLARD: I have been quarrying the people in our Athens laboratory for that data. It
4 should have been back by now, and I believe part of it is. They have been
5 doing the quality assurance on it, the data review. But most -- I have not
6 gotten a date certain that I'm going to have it in my hands. As soon as I
7 have it, I will, you know, present the results at the next subsequent RAB
8 that I'm attending.

9 MR. DEBACK: Thank you, Virgil. We'll move right along to the next item on the agenda,
10 and it looks like our speaker is walking out the door. We'll come back to
11 that.

13 DEPOT REDEVELOPMENT CORPORATION (DRC) UPDATE

15 MR. DEBACK: I think we will move on to the next item. Jim Covington will present a
16 short update.

17 MR. COVINGTON: Yes. I'm Jim Covington, Depot Redevelopment Corporation. I don't
18 really have a report. I just wanted to say that we haven't signed anymore
19 leases since last month. I did check on the light that Mr. Brayon requested
20 to be turned from operational to blinking, and I hope you don't want the
21 light because they are going to take it out.

22 MR. BRAYON: That's fine.

23 MR. COVINGTON: Once you start asking questions, sometimes you don't know what's going
24 to happen. But that's what's going to happen. The city has a program
25 trying to remove lights that are not needed anymore, and that one qualifies
26 for the program, and they're going to take it out.

27
28 The other thing that I neglected to report at the last meeting was that -- and
29 I really meant to talk about this because I'm sort of proud of it. We've
30 planted about 800 trees on the Depot property and some 2,000 shrubs. So,
1 that's part of our ongoing upgrade and modernization in making the

1 facility into a true business park so that we can compete in the business
2 world.

3
4 So that along with utilities and the other thing that you pointed out about
5 the upgrade of the phone system. They are going to build a new switch
6 that's going to be located on the site to serve not only the Depot industries,
7 but all the surrounding neighborhoods and businesses. That's really all the
8 report I have tonight. I can answer any questions that y'all want to ask.

9 MR. DEBACK: Mr. Tyler?

10 MR. TYLER: Just a housekeeping question. Are you-all using local contractors and
11 minority contractors or small disadvantaged contractors to do this work at
12 the Depot so we can try to keep the money in the surrounding
13 communities?

14 MR. COVINGTON: That's correct. We function much like city and county government. We are
15 constantly searching for contractors for every project that we do that have
16 smaller minority business owners. We have gone under HUD grants -- not
17 HUD -- EDA (Economic Development Administration) grants that have
18 their own requirements that we have to meet for minority contractors. So,
19 between that and our own requirements, we are constantly looking for and
20 finding contractors to -- and we break up the project into small pieces - try
21 to make that work better.

22 MR. DEBACK: Mr. Ballard?

23 (Brief pause.)

24 MR. DEBACK: Just a brief update on the Dunn Road project removal of the rail crossings.
25 The final design is in preparation right now, and the contractor has been
26 identified, and it is a local minority contractor. We should see that work
27 completed by this summer.

28
29 **BASE REALIGNMENT AND CLOSURE CLEANUP TEAM (BCT) UPDATE**
30

1 MR. MORRISON: Jim Morrison with TDEC, Tennessee Department of Environment and
2 Conservation. Just a brief overview of what was discussed in our BCT
3 meetings. Essentially two of the major topics that we went over was the
4 CWM removal update and how that is proceeding. All of the intrusive
5 work is currently over. We're waiting for a Transportation and Disposal
6 Plan approval to move the material off site. Clyde will be going into this
7 in more detail.

8
9 We also discussed the groundwater investigation for Dunn Field, how
10 that's going to proceed and how that's going to impact any future
11 investigations. I will be leaving that for later, with CH2M Hill for a later
12 RAB.

13
14 One good thing that has occurred, both DOD and TDEC have now
15 finalized their portion of the Main Installation ROD. This is a major
16 milestone. The only thing that's keeping it from completion is what's
17 called the Land Use Controls Assurance Plan (LUCAP), because we do
18 have institutional controls as part of the remedy on the Main Installation.
19 We're waiting for that to become final, and once that occurs and all
20 signatures are on this, we can move forward with the final signatures for
21 the Main Installation ROD. This is a major milestone.

22
23 One other, we are prioritizing one of the remedial actions on the Main
24 Installation, which is the lead removal at the rear of the property. I think
25 it's the Barnhart Crane & Rigging. We went out today and reviewed that
26 and noted that there's probably about seven -- the footprint of it's going to
27 be about 7,000 square feet, which would be, what, 260 yards -- 260 cubic
28 yards of lead contaminated soil that we're going to be removing. We're
29 going to be putting that on the fast track to accommodate Barnhart's needs.
30

1 MR. MORRISON: Also, we were made aware today that funding has come in place to
2 complete the pre-remedial design wells for the Main Installation. So this
3 is going to allow us to optimize the groundwater remedial design on the
4 Main Installation.
5

6 Lastly, EPA has introduced all of us to a program called Adobe Acrobat
7 where we're going to try to start saving trees out there. We're going to a
8 paperless review process. Before, I'm sure all of you have seen the
9 numerous thick documents that have come out that we have to review,
10 send back for comments, review again, and send back for comments. It
11 seems like trees -- ever since computers have come in - it seems like trees
12 are going down at a much faster pace now because we are able to print
13 things out. This is going to allow us to do much quicker real-time reviews
14 of reports that have come out and just speed up the process now that we're
15 in this electronic age. I believe that captured everything.

6 MR. DEBACK: Thank you, Jim, and without -- Mr. Tyler?

17 MR. TYLER: Since we're so concerned about saving trees, I get back to my basic issue,
18 the Internet, and he brought it up. As you say, it's lost in the bowels of
19 what, DOD or DLA?

20 MR. DEBACK: It's at the Defense Distribution Center, your letter.

21 MR. TYLER: Okay, now, one question. Is there a name to this person's desk it's sitting
22 on? Is there a position that the person operates under? Is there a 1-(800)
23 number that I can use to call to find out exactly is it going to be Easter
24 break or is it going to be Memorial break before that person comes back?
25 Because I'm concerned about saving trees like this gentleman here, too,
26 and double clicking saves a lot of trees.
27

28 Also, this next question, about this lead removal, I thought the base was
29 already up to industrial standards. Why are they removing this extra lead?

30 MR. BALLARD: If you want to go back and look at the Proposed Plan which was presented
1 last August, there was a small area on the western side of the facility by

1 building -- just south of the Spandome. What I can find from the reports is
2 that there was some sandblasting or disposal of dried paint residue, and the
3 sampling results showed levels of lead that exceeds industrial cleanup
4 numbers. So the area has been pretty well delineated, and the Proposed
5 Plan and the ROD call for it to be excavated and disposed of off site and
6 backfilled with clean material.

7 MR. DEBACK: You may have confused that with the paint shop removal that we had done
8 earlier. It was not part of the paint shop removal. This is down by the
9 Spandome.

10 MR. BALLARD: It's that big sprung structure right -- about halfway up the Perry -- about
11 midway on the -- yeah, that big quansit (sic) hut kind of looking place.

12 MR. DEBACK: So we did do an early removal, as everybody recalls, at the old paint shop
13 area. This is about halfway across the field, and it will be the only soil
14 removal that we have left. We are expediting that because of reuse
15 activity. Mr. Brayon?

16 MR. BRAYON: Mr. Covington, I would like to ask you one question. Somebody moved
17 into the old paint shop by the name of, what, the Barn -- starts with B.

18 MR. DEBACK: Barnhart.

19 MR. BRAYON: What kind of business are they in; sandblasting?

20 MR. COVINGTON: No. Jim Covington. The Barnhart Crane & Rigging Company -- the
21 national headquarters for this company is here in Memphis. They provide
22 big overhead cranes, cranes for construction work. If you're building a
23 high-rise building, they provide the cranes that actually carry the building
24 materials up. It's a variety of things all the way from the small cranes on a
25 rubber tire type vehicle to individually designed and constructed apparatus
26 for building bridges or anything. So they're construction subcontractors to
27 larger projects for specialty items that are normally hard to do. They can
28 move very big, heavy things. That's part of the rigging that they are
29 talking about. They really are specialty providers of that kind of service,
30 and they work all over the world.

1 MS. MARQUITA BRADSHAW: Marquita Bradshaw. I'm sitting in for Doris Bradshaw. In
2 the removal of the lead contaminated soil, what precautions will be taken
3 to ensure that the neighboring schools and the community do not suffer
4 from that?

5 MR. BALLARD: Turpin Ballard. The kind of precautions that are taken will be dust
6 suppression. The main threat to the community -- the only real threat in
7 this kind of situation would be dust being spread during the excavation
8 process. It's a very standard and well recognized approach to the dust
9 suppression to keep a water truck on site. If you start raising dust, you
10 spray the area to wet it down. You spray water on it, and it doesn't raise
11 dust.

12 MS. MARQUITA BRADSHAW: So it's not a really -- after the dust that does get out, what
13 happens to the dust that does rise? It's hard to contain soil without, you
14 know, it being wet or anything. So after some does release into the
15 community, what -- as far as people surrounding it, what kind of impact it
16 would be on their health?

17 MR. BALLARD: The small amount that might escape before, you know, they start spraying
18 would be so ---

19 MS. MARQUITA BRADSHAW: Minute?

20 MR. BALLARD: --- minute, it would be, you know, so diffuse that any amount that would
21 fall at any given location you couldn't even analyze for.

22 MS. MARQUITA BRADSHAW: Okay, my concern is because there are a lot of neighboring
23 schools around and day cares.

24 MR. BALLARD: Sure.

25 MS. MARQUITA BRADSHAW: And I do not want that to be a risk because we know how
26 lead affects the brains of developing children.

27 MR. BALLARD: I fully recognize that, and we're going to make every effort to have no
28 dust. It's difficult to say we won't have any dust at all. Jacobs is the
29 company that will be doing the excavation, and they will be following the
30 same procedures that they followed when they did their excavation of the
1 southwest paint shop and maintenance area. That didn't really generate any

1 problems or complaints from the adjacent residences, to my knowledge. I
2 wasn't notified of any complaints of the ongoing work there.

3
4 So, following the same procedures, we should get the same results. We're
5 always happy - you know if someone says there is dust, give us a call.
6 Call us at the Depot. The Depot will get on the horn to whoever is out
7 there and say "Get the trucks down there" and say, you know, "Keep your
8 eye open for the dust."

9
10 Also, there are dust monitoring devices which can be used just to -- and
11 they don't test for lead, but they just test for particulates. Those are
12 typically used as part of the health and safety monitoring program during
13 these actions.

14 MR. WILLIAMS: We have two more people here that want to ask questions, and then we're
15 going to try to get back to the other part of the agenda that we skipped.
16 Oh, we only have one. Ms. Brooks?

17 MS. BROOKS: Good evening. Peggy Brooks. I have actually two questions, and one I
18 will probably leave for Mr. Hunt. But at this moment I would like to ask a
19 question concerning the trucks, the transport trucks as they leave Dunn
20 Field and proceed onto Perry Road. Is there any contamination from the
21 dust that is aroused? Is there any contamination worthy of our concern?
22 You know, this constant movement from Dunn Field out that gate onto
23 Dunn onto Perry Road. Do we need to be concerned or is there any need
24 for concern, you know, in terms ---

25 MR. BALLARD: I understand what you're -- trucks raise dust.

26 MS. BROOKS: Yes. You know, is there any concern ---

27 MR. BALLARD: There's dust on the roadways, dust in the gutters. Trucks go by, and they
28 raise it up. I think with respect to the contaminants, the soil that's being
29 removed from Dunn Field, that stuff is contained. I mean, it's in the
30 enclosed containers. So the dust that you see being raised as they come

1 out of Dunn and go onto Perry is the dust that would be raised by any car
2 or any truck not associated with this project.

3 MS. BROOKS: So the residents on Perry Road really don't have a concern?

4 MR. BALLARD: Not unless they see -- I don't want to get flip, but not unless, you know,
5 the soil is coming out of these containers, and they're pretty well sealed.
6 Clyde can speak to that better than I can, you know, how the soils are
7 being shipped or packed for transportation.

8 MS. BROOKS: Okay, so I will come back to that in a little bit.

9
10 **CHEMICAL WARFARE MATERIEL (CWM) UPDATE**

11
12 MR. WILLIAMS: Okay, we're going to go back to the agenda. We're going to let Mr. Clyde
13 Hunt ---

14 MR. HUNT: Can everyone see this okay? (indicating)

15 MR. BOND: No. Back it up.

16 MR. HUNT: Back it up? Is that better?

17 MR. BOND: Yes. Thank you.

18 MR. HUNT: Good evening. My name is Clyde Hunt. Can everyone hear me? Is this
19 better? We'll start over. Good evening. My name is Clyde Hunt,
20 Remedial Program Manager for the Memphis Depot. I am pleased to have
21 this opportunity to once again present you information regarding the
22 chemical warfare materiel removal action at Dunn Field.

23
24 The map that we have before you, I have it here this evening basically to
25 show you the areas that we're doing work. As you know, the scope of
26 work involved three sites at Dunn Field. Just to orientate you, here is the
27 north arrow, but this is Hays Street (indicating), and this is Dunn Avenue
28 (indicating.) This is, of course, the western portion.

29
30 So the scope of work for the chemical warfare materiel involved three
31 sites, the first site being where we suspected the burial of the Chemical

1 Agent Identification Sets, and then Site 24A where we suspected the burial
2 of the 29 bomb casings. Finally, Site 24B where the bomb casings that
3 contained the chemical agent mustard was drained into the pit at Site 24B,
4 into a pit that contained bleach and lime that neutralized the mustard. The
5 incident, of course, occurred back in 1942.

6
7 My primary presentation this evening will focus on Site 24B, the final
8 phase of the work that we're doing. However, I want to share with you
9 some information regarding Site 24A. That was the site where we
10 suspected the burial of the 29 bomb casings, and, of course, we were
11 successful in removing all of those bomb casings. When we removed
12 those bomb casings, we placed them in the Interim Holding Facility
13 compound. That's where they have been located up until this week. What
14 we have done is we brought those bomb casings that were at the Interim
15 Holding Facility compound, which is still on site at Dunn Field, we've
16 brought to Site 24B. Site 24B is where we have the vapor containment
17 structure.

18
19 MR. HUNT: So right now those 29 bomb casings are inside of the vapor containment
20 structure at Site 24B and the reason for that it was for certification
21 purposes. We are certifying that they contain or that they do not contain
22 any explosive components. Out of the 29, we have looked at 27. So, 27
23 of the 29 bomb cases have been certified free of explosives. Now we have
24 the last two, and those last two are presenting some challenges for us, but
25 we are very hopeful to have conclusive information on that.

26
27 The remaining two are the 250 kilogram bomb casings, and we're certainly
28 making attempts to verify that the burster tubes are clear of explosives.
29 The challenges that we have faced with all of the 29 bomb cases is the fact
30 that it's been buried for 50 years. We have been very successful with the

1 27, and we certainly don't anticipate any problems with the last two that
2 we have.

3
4 Now I would like to focus on Site 24B. Once again, it's the final phase of
5 the work that we're doing. That's referred to as the mustard neutralization
6 pit, and the digging operations began in January. We started right after
7 Christmas holidays and after the New Year's celebration when many of the
8 contractors returned back to the site from being home with their families.
9 Since that time, we have excavated approximately 300 cubic yards, and
10 we'll give you more definitive information at the May RAB meeting when
11 we provide you with some close-out information.

12
13 Out of that amount of material that has been excavated at this site, at 24B -
14 - I indicated this at the last RAB meeting -- we have approximately 10
15 cubic yards of soil that contain low levels of mustard and 14 cubic yards
16 of soil that contains the degradation or the byproduct. Let me see if I can
17 pronounce this correctly -- the dioxane, the dithiane and thiodiglycol.
18 How did I do on that, Mr. Ballard?

19 MR. BALLARD: Good.

20 MR. HUNT: Nevertheless, what's important to know is that those 10 cubic yards of
21 mustard and the 14 cubic yards of byproducts are being stored within --
22 we have two tent-like structures, and that soil is being stored in the
23 structure.

24
25 We completed digging at Site 24B on March 8th. We have done extensive
26 testing of the soils in the excavated area - along the sides, along the floor,
27 the bottom portion of the pit - to determine if there are any other, you
28 know, indications that mustard still remains. After extensive sampling of
29 the soil along the sides and bottom, all of this has come back negative, and
30 we are -- our team is confident that Site 24B is now free of the mustard

1 and the byproducts. We see this as a major milestone, and we are very
2 pleased of this report.

3
4 So what does this mean? Well, over the next month you are going to see
5 even more activity at Dunn Field. First of all, we're going to backfill the
6 trench at Site 24B because right now it's still open. We will not complete
7 that until we receive certification of the bomb casings, and we've certified
8 27. We just have two more that we have to do.

9
10 Secondly, we're going to transport the soil, all of the soil that we have
11 removed from Site 1, Site 24A and Site 24B. All of that soil will be
12 transported off site. Right now we're pending approval of our
13 Transportation and Disposal Plan. It's being reviewed by many different
14 agencies. So there's a process involved, and once that is approved, we can
15 move forward in getting that accomplished.

5
17 MR. HUNT: Also, the two structures that you see, the tent-like structures, that will be
18 dismantled, and, of course, then we'll have the downsizing of the
19 personnel that's on site. The representatives - our primary contractor,
20 UXB, the Technical Escort Unit, Edgewood Chemical Biological Center
21 and all of those people who contribute to the success of this project will be
22 returning home.

23
24 I have been providing weekly briefings each Wednesday at ten o'clock,
25 and those weekly briefings will continue throughout the end of March. I
26 will do one next week at ten o'clock, and I do hope that many of you come
27 out, and the final one, however, will be on March 28th. I will still be on --
28 not at Dunn Field, but now in Building 144 at the Memphis Depot
29 Business Park. So if you have any questions relating to the chemical
30 warfare materiel project, I will do my best to provide you that information

1 as well as any additional information you may have or would like to know
2 regarding any of the other work that is going on here.

3
4 I think I indicated that the next RAB meeting was May 17th at Alcy
5 Elementary School. At that time, we will give you more information, more
6 detailed information, regarding the completion of the chemical warfare
7 materiel removal action at Dunn Field....

8
9 I want to take this opportunity to thank you for allowing me to serve in
10 this role as on-site coordinator. I will continue to provide you factual,
11 timely information and just look forward to working with many of you as
12 we move forward to restoring, reusing and ultimately revitalizing the
13 Memphis Depot property. Mr. Tyler? I'm sorry.

14 MR. WILLIAMS: Go ahead, Mr. Tyler.

15 MR. TYLER: First I want to be polite. What time is it? Because we want the public to
16 have their fifteen minutes. Ten after?

17 MR. WILLIAMS: Ten after. I'm going to go with it.

18 MR. TYLER: So, I'm legal. I'm not cutting into the public's time. Okay, congratulations
19 on your job promotion. Hopefully you got a government pay raise. Let's
20 get the niceties out of the way. Let's get down to the nuts and bolts.

21
22 They are going to be trucking this dirt off. Who is going to be the
23 contractor and will these trucks be covered? Because we went through
24 this once before about two years ago. Ms. Brooks can attest to this -- that
25 no one knew who was in charge of covering those trucks, because the
26 government contracted out to the contractor. The contractor said, "That
27 wasn't in the contract, so we don't have to cover them up." Therefore, the
28 people going down Hays and going down Dunn were subjected to the
29 bombardment of dust and dirt in the hot times of the summer.

30 Who is going to be responsible for that?

1 MR. HUNT: Well, I can't respond to the incident that happened, you know, two years
2 ago.

3 MR. TYLER: You don't need to.

4 MR. HUNT: But just allow me to respond to our Transportation and Disposal Plan. As I
5 stated earlier, it is a plan -- it is a very detailed plan. Right now it's being
6 reviewed by different agencies. We've had the Environmental Protection
7 Agency review the plan. The BCT has reviewed the plan, and I believe
8 the Tennessee Department of Environment and Conservation is reviewing
9 the plan.

10

11 So, when that plan is approved, we can provide you that information, but I
12 can assure you, safety has been our goal in this project from the very
13 beginning. Well, it's been our priority. Our goal has been to clean up Site
14 1, 24A and 24B. But, in terms of priority, safety has always been first to
15 the people of this community, to our workers and to the environment.
16 So we will do everything within that Transportation and Disposal Plan to
17 ensure the safety of the people of this community, and you have my word
18 on that.

19 MR. DEBACK: Mr. Tyler, I can assure you that those trucks will be covered appropriately.
20 The prime contractor is UXB Corporation and they are under contract
21 through the Huntsville Corps district. If there are any problems or any
22 perceptions of problems, by all means, call us immediately.

23 MR. TYLER: My second question; this mustard has been in the ground, what,
24 approximately 50 something years?

25 MS. PETERS: Fifty years.

26 MR. HUNT: The incident occurred in I believe 1942.

27 MR. TYLER: I'm not worried about the time line. Is it normal for this stuff to still have
28 a residue effect? Because we were told during the updates that it would be
29 a gelatin subject and it would be inert. It wouldn't be anything active.
30 Now, is this a normal course of events for these parts per billion to be

1 there? And what is the EPA allowable limit for these dioxins? I can't
2 recall all of them. I will just say diox for short.

3 MR. HUNT: Well, to answer the first part of the question, at Site 24B our scope was to
4 go in and to actually examine to ensure that all of the mustard was
5 neutralized and out of all of the material that was excavated.
6 There was about ten cubic yards of mustard -- of soil that contained very
7 low levels of mustard that was not completely neutralized. That was
8 probably expected because this was a pit, it contained bleach, it contained
9 lime, and then they drained the mustard into all of this. This occurred back
10 in 1942 when there were not any regulations in place on how to properly
11 dispose of this. So we're not surprised of the fact that we are finding low
12 levels of mustard.

13

14 In terms of the -- I believe you had a question on ---
15 MR. TYLER: EPA allowable limits.

6 MR. HUNT: --- allowable limits. You've got me on that one.

17 MR. BALLARD: I believe 200 -- anything below 200 parts per billion is -- as far as EPA --
18 the hazardous -- it's not considered hazardous. The standard for this
19 project is if it's mustard, it goes.

20 MR. TYLER: The residue, what are the parts per billion? Is this very below the EPA
21 standards?

22 MR. HUNT: Are you speaking of -- when you say "residue," you mean the byproducts?

23 MR. TYLER: Yes, the byproducts.

24 MR. HUNT: Okay, you're talking about the mustard or the ---

25 MR. TYLER: Right; the mustard is still there, but it's in minute quantities?

26 MR. HUNT: Right, and the byproducts are at very low levels as well. You know, yes, I
27 did fax you our weekly briefings that give you more detailed information.
28 I am not sure what the EPA guidelines are on the levels for the
29 byproducts, if there are any.

30 MR. BALLARD: There aren't any.

1 MR. HUNT: Okay.

1 MR. BALLARD: The byproducts are not listed as hazardous waste in the hazardous waste
2 regulations.

3 MR. DEBACK: We can give you the exact levels if you would like.

4 MS. ARNST: Diane Arnst. I just wondered if anybody knew the time frame for review
5 of this sort of transport plan. Are we talking about months, before the end
6 of the year?

7 MR. HUNT: The Transportation and Disposal Plan - in fact, we had a meeting on
8 yesterday with all the parties involved. Of course, whenever there is a
9 plan, there are always revisions to that plan. So we're close, but it's being
10 reviewed. So, you know, we're hopeful to be -- it's close.

11 MS. ARNST: Did Mr. Morrison have any comments on that?

12 MR. MORRISON: Jim Morrison. That is being handled by our Division of Solid Waste
13 Management. That plan is being heavily scrutinized to make certain that it
14 is very safe for the community and that there will be nothing to occur on
15 this end or at the receiving end. We're hoping -- I cannot give you a
16 deadline as to when it's going to be done, but we're putting it as a high
17 priority status for review in our Division of Solid Waste Management. So
18 when they give the reviewing comment on it, hopefully it's going to be
19 within a two-week time frame. It may be sooner. That's all I can tell you
20 at this point.

21 MR. DEBACK: Ms. Brooks?

22 MS. BROOKS: Peggy Brooks. I don't want to infringe upon public comment. I just want
23 to ask very quickly concerning, once again, those railroad train tracks. Do
24 they serve any viable purpose, and, once again, if they cannot be removed,
25 can they at least be repaired?

26 MR. DEBACK: Are you talking about the tracks on Dunn Avenue?

27 MS. BROOKS: That is right, leading from Dunn Field, going across to that Main
28 Installation ---

29 MR. DEBACK: Just before you came in we gave a very brief update.

30 MS. BROOKS: Okay, very good.

1 MR. DEBACK: We are in a final design of removing those.

1 MS. BROOKS: Excellent.

2 MR. DEBACK: They will be removed. That project should be completed this summer.

3 MS. BROOKS: Thank you so very, very much.

4 MR. WILLIAMS: Ms. Peters?

5 MS. PETERS: I changed my mind. I just wanted to let you all know, in 1942, when they

6 buried that mustard gas, they didn't never intend to have to dig it up or do

7 nothing else with it. I am very proud of them being as careful as they are.

8 Because the people who made that mustard gas can't even tell you what

9 affects it would have on you. So you better be real, real proud of the

10 people that's taking care of us in the community. I'm glad that you-all are

11 doing a very good job. Because the people stopped that train and buried it

12 all here because they were scared of it.

13 MR. DEBACK: Thank you, Ms. Peters.

14 MR. WILLIAMS: All right, Mr. Hunt, I guess we're through with you for now.

15

5 PUBLIC COMMENT PERIOD

17

18 MR. WILLIAMS: At this time, I would like to open up the floor to any public comments.

19 But I want to make sure that all the literature that I passed out that I

20 wanted information on -- if you could get it back to Ms. Moore. I would

21 appreciate it very much - the birthday list, the update list of your addresses

22 and phone numbers, and please volunteer to be on a subcommittee.

23 All right, the floor is open. Would anyone like to comment at this time?

24 MR. DEMETRIO: Franklin Demetrio. Can you hear me? Okay, Franklin. I would like to

25 welcome the students, and I would like to let you know that when you

26 hear the reports of the government and their contractors, you are only

27 getting one side of the story. We have quite a history with this

28 Installation, and there have been many cover-ups and deceptions in the

29 past. If you want to know the truth, you really need to talk to the

30 community organizations like DDMT-CCC, Defense Depot Memphis

1 Tennessee Concerned Citizens Committee. They even have youth
2 involved, and you can talk to Marquita Bradshaw about that.

3
4 And we know that from plenty of things, we can't trust what we always
5 hear from the government, such as telling us that there's no such thing as
6 the Gulf War Syndrome or who won the last presidential election. We
7 can't trust them when they tell us -- when they try to pacify the community
8 about their concerns about their health and their family's health.

9
10 We have also heard testimony from people who used to work at this site
11 about some pretty horrible things that went on here. And I have a couple
12 of questions for Mr. Hunt about the chemical warfare materiel removal. I
13 think these are actually three distinct questions. How many incidents have
14 there been in this when workers had symptoms such as, you know, nausea,
15 headaches, dizziness and so on? How many incidents have there been
16 when there have been releases outside of the containment structures of
17 either the mustard or the byproducts? And how many incidents have there
18 been when these workers went to the hospital? I actually thought that
19 should have been part of the report, but I would like to hear how many
20 times these things have been happening.

21 MR. HUNT: The second question that you asked in regards to release of any chemical
22 agent outside of the containment structure, there has been no release of
23 any chemical agent since the beginning of this project -- we are very proud
24 of that -- outside of the vapor containment structure. There was an
25 incident. In fact, we did present this to the members of the RAB, as well
26 as the people in the community, regarding some workers who became ill.
27 I believe I made that presentation back in September or October.
28 Many of you were here when I referred to the ham sandwich. We were
29 talking about the bomb casings that were stored inside of a plastic wrap
30 and the fact that it had been buried for 50 years. We had two of our

1 workers who opened or removed the wrapping and from that there was
2 some elevated blood pressure.

3
4 Those workers did not want to go to the hospital. In fact, they thought that
5 we -- we insisted that they go because of the changes in their blood
6 pressure. The conclusion of the matter was that no conclusive evidence
7 that the changes in their blood pressure had anything to do with the
8 involvement at hand. However, we did change the communication
9 policies in regards to what occurred at that time. We ensured the people of
10 the community that we would be open with all communications, and since
11 that time -- we were doing it before, but we have even more so provided
12 information to the public regarding any incident that occurs, safety
13 accidents or what have you, to the people of the community.

14 MR. WILLIAMS: Anymore questions of the community?

15 (Brief pause.)

16 MR. DEBACK: Back to the RAB comment. Just for the record, my co-chair indicated the
17 community's interest in the RAB as it should be. The RAB is a forum for
18 the parties that are doing the cleanup and the base cleanup team to provide
19 information to the RAB members who represent the community so that
20 they can take that information out to their various organizations within
21 that community and let the community at large know what is going on
22 here. It's a forum to ask questions, as Mr. Franklin has many times in the
23 past, and receive legitimate answers to those questions.

24
25 **RAB COMMENT PERIOD**

26
27 MR. WILLIAMS: So we have now opened up the table for the RAB members to comment or
28 ask questions. Mr. Tyler?

29 MR. TYLER: I noticed that we're not going to have a meeting in April. Is there a reason
30 for this? Just curious. Or am I reading this wrong?

1 MR. DEBACK: Again, the purpose of the RAB is to disseminate information, and the
2 schedule of events as we go through. April is a month that we don't have
3 any substantive reports to make. We'll be coming back in May with a
4 report on this close-out of the CWM.

5 MR. WILLIAMS: Ms. Brooks?

6 MS. BROOKS: Just very briefly, I want to express my appreciation to the students from I
7 believe the University of Memphis. I appreciate your coming and your
8 interest, and I hope I won't be out of order in just providing a thought.
9 In your research, if you're interested, maybe you could at some date in
10 time, report to us why the city allowed developers to build homes so
11 closely to a chemical warfare materiel dump. This acreage, this
12 development, was called Friendly Fair, F-a-i-r, Acres. Brand knew homes,
13 approximately in 1950 - and the homes were built right across the street
14 from a chemical warfare materiel dump. I would love to research it, but,
15 you know, with time constraints and all of that -- but if someone should, I
16 think we would love to find out. At least I would, and I think some of the
17 residents would. Why in the world were they allowed to build new homes
18 and pass them off and sell them and give them 30-year mortgages to live
19 across from a chemical dump? Thank you.

20 MR. WILLIAMS: Are there anymore questions from the RAB?

21 MR. BRAYON: Move for adjournment.

22 MS. ARNST: Not a question, but a comment.

23 MR. BRAYON: Point of order.

24 MR. WILLIAMS: Well, I was hoping we wouldn't have to since this is the last one.

25 MR. BRAYON: I will yield to you.

26 MR. WILLIAMS: Thank you.

27 MS. ARNST: Just a sentence or two. Diane Arnst. I just wanted to respond to Mr.
28 Demetrio that isn't it great that we can all sit in this room, and we can all
29 say whatever we would like to say, unlike some other countries you hear
30 about on the radio where you are shot or you're dragged away in the

1 middle of the night or whatever? That's the good thing about our county,
2 as far as I have seen.
3 MR. WILLIAMS: So we will go with the first thought with Mr. Brayon, if you would like to
4 bring that up again.
5 MR. BRAYON: Move for adjournment.
6 MR. WILLIAMS: Can I get a second?
7 MR. TYLER: Second.
8 MR. WILLIAMS: All in favor?
9 THE BOARD: Aye.
10 MR. WILLIAMS: Okay, the meeting is adjourned.

(Whereupon at approximately 7:27 p.m., the meeting was adjourned.)

**Next RAB Meeting:
May 17, 2001
Alcy Elementary School
1750 Alcy Road
Memphis, TN
6:00 p.m.**

Attendance List

Restoration Advisory Board Members

Mr. Mondell Williams	Community Co-Chair
Mr. John DeBack	Interim Facility Co-Chair
Ms. Elizabeth Young	Citizen Representative
Mr. Turpin Ballard	Environmental Protection Agency
Mr. Dave Bond	Citizen Representative
Mr. Jim Morrison	Tennessee Department of Environment and Conservation
Mr. Reginald Eskridge	Citizen Representative
Mr. James Webb	Memphis Light, Gas and Water Division
Ms. Johnnie Mae Peters	Citizen Representative
Mr. Eugene Brayon	Citizen Representative
Mr. Stanley Tyler	Citizen Representative
Mr. Jim Covington	Depot Redevelopment Corporation (DRC)
Ms. Peggy Brooks	Citizen Representative
Ms. Diane Arnst	Memphis/Shelby County Health Department
Ms. Betty Mills	Citizen Representative

Others in Attendance

Ms. Alma Black Moore	Frontline Communications
Mr. Trevor S. Diggins	Frontline Communications
Mr. Virgil Jansen	Jacobs-Sverdrup Environmental, Incorporated
Mr. Clyde Hunt	Corp of Engineers - Memphis
Mr. Benjamin Moore	ATSDR Regional Representative
Ms. Marquita Bradshaw	DDMT-CCC (For Ms. Doris Bradshaw)
Mr. Franklin Demetrio	Citizen
Mr. John Whiting	Corp of Engineers – Mobile
Mr. Buddy Wagoner	Corp of Engineers – Mobile
Mr. Randy Readus	Citizen
Ms. Adrienne Hill	Frontline Communications
Ms. Shalonda Tipton	Citizen
Ms. Cynthia Zelinski	Citizen
Ms. Jackie Noble	DDC-AC
Mr. Michael Dobbs	DDC-TW
Mr. Jason Jones	Citizen
Ms. Roquita Coleman	Citizen
Ms. Suzan Dockery	Citizen
Ms. Maylynne Thomas	Citizen
Mr. Steve Offner	CH2MHILL
Ms. Denise Poe	Citizen
Mr. Kevin McGee	Citizen
Ms. Peggy DuBray	Corps of Engineers – Arnold AFB
Mr. John Rollyson	Corps of Engineers – Arnold AFB
Ms. Jenni Price	Citizen
Mr. Patrick Sullivan	Citizen

Mr. Bill Couffer	Citizen
Mr. Jeremy Reece	Citizen
Ms. Dorothy Richards	USACE
Ms. Mosesella Garrett	Citizen
Ms. Alicia Hampton	Citizen
Mr. Frank Johnson	Citizen
Ms. Edna Everett	Citizen
Ms. Nervie Holmes	Citizen
Mr. Nick Chaisson	Citizen
Ms. Joy Farwell	Citizen
Mr. Tymarshall Royston	Citizen