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1 Naval Weapons Industrial Reserve Plant Calverton, New York Restoration Advisory Board Regular Meeting 7 00 P M October 24, 2000 g Riverhead Masonic Lodge Riverhead, New York 10 11 PRESENT: 12 United States Navy Naval Air Systems Command Judithanne Hare 13 Dave Brayack Tetra Tech NUS 14 15 Debbie Cohen 16 Jim Colter Northern Division, NAVFAC 17 18 RAB Members 19 20 21 23 FREELANCE L.I , INC. - Court Reporters 259 Southfield Road Baiting Hollow, New York 11933 24 Baiting Hollow, New York 11 Voice (516) 369-2912 Fax E-mail flli@aol.com 25

words because I know you're anxious to get started. Get up to date on Bethpage and Calverton. We do cover a large area and we have a lot of work going on at active bases and at GOCO. So we get out in the field once in awhile and get a good feel for how things are going. But I hope we have a good

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CO-CHAIR HARE: Thank you. I will quickly review the agenda. Does everybody have a copy of the agenda?

We will go through the review and approval of the minutes. I will then turn it over to Sherry for membership and steering committee update. We are going to reverse a couple of items.

Jim Colter is going to go next and he's going to update us on activities at Calverton, including Site 9. And then he will turn it over to Dave Brayack, who will present the main part of our discussion this evening for Sites 1, 7 and 6. Then we will have an action item review and discussion for meeting topics and any questions and concerns at this time. So without further ado, I would like to ask if everyone did get a copy of the minutes? Anybody that didn't?

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CO-CHAIR HARE: Well, ladies and gentlemen, I'm delighted to welcome you to the Restoration Advisory Board for Calverton. I appreciate the fact that you came out on such a significant evening. You are missing the ball game. Actually the ball game doesn't start until eight something, right? So if we hurry this along maybe you won't miss the ball game after all.

I would like to introduce someone to you that normally isn't here but has come along as representing the Navy this evening. This is Mr. Conrad Mayer to my right. Mr. Mayer is director for environmental matters for the naval facilities engineering command at Northern Division and Northern Division's area of concentration is everything from Chicago --

MR. MAYER: Delaware to Maine. CO-CHAIR HARE: Quite a large area. And he also happens to be Jim Colter's boss and Con and I have known each other for a long, long time now, done business for many years. So at this point I would like to turn it over to him and if you would like to say a few words of welcome.

MR. MAYER: I'll say a few brief

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Were there any corrections or omissions to the minutes? If not, all those in favor of approving the minutes signify by saying

(Ayes)

CO-CHAIR HARE: Those opposed?

CO-CHAIR HARE: The minutes are approved. Sherry, at this time I'll turn it over to you.

CO-CHAIR JOHNSON: I have one question quickly.

CO-CHAIR HARE: Yes, sure.

CO-CHAIR JOHNSON: We mentioned wanting to go back to some of the items, on August 30th. I want to ask recent submittals on Site 1, 7 and 6, are we going to go back maybe and tell what's been happening from February.

MR. COLTER: That's what I'm going to do before we get into Dave's presentation.

CHAIRMAN JOHNSON: Okay.

CO-CHAIR HARE: Sherry, is there anything else you wanted to add as far as the steering committee is concerned.

1 Proceedings 2 CHAIRMAN JOHNSON: The steering 3 committee met twice. We met once in May and once 4 in -- three times? 5 We met in May, before the May meeting 6 we didn't have. We met in August, before the August meeting we didn't have. 8 And I think we kind of have been 9 talking by phone and e-mail since then. We 10 basically expressed some concern about the plume. 17 Hopefully if Jean makes it tonight, I understand she 12 isn't feeling well she may be late or not at all, 13 but she has been working on a TAP proposal and I 14 know she did want to introduce that and at least 15 give us a presentation on it. 16 CO-CHAIR HARE: Okay, now. We didn't have that on the agenda for tonight. Is this 17 18 something that was going to take awhile -- I wanted 19 to try to stick closely to the agenda. 20 CO-CHAIR JOHNSON: I don't think it 21 will take her long if she makes it in. 22 CO-CHAIR HARE: All right. Well, 23 okay. We'll see. 24 Other items? 25 CO-CHAIR JOHNSON: I don't think we

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good chance that our final remedy will be a New York State Part 360 cap, we would design the bank to tie into that. What that would allow us to do, the cap project, probably 80 percent of the cap project would have been the bank stabilization portion of it. The cap itself is really a small piece. If we were able to get that going early and budget for it, that would go a long way in getting that site closed out. So we presented that concept to the regulators in February. They were responsive to it.

They did have concerns that most of our rough alternatives had us impacting the wetlands to a certain extent. They voiced their disagreement with that and asked us to evaluate other alternatives that minimized or eliminated impacts to the wetlands.

We tasked Tetra Tech to go back and give us several alternatives, which they did. Also at the time that we were doing the field work over the summer. We -- they put that report together and gave me an internal copy that we reviewed. We discussed it. We sent a preliminary to the state to see if this -- if we were on the right track as far as the alternatives they were looking at. They said

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CO-CHAIR HARE: Okay? All right? In that case, I'm going to turn it over to you, Jim.

MR. COLTER: As Sherry mentioned, the last time we met was February and what I plan to do is on a site by site basis here, go down what the Navy has been working on on each site since February and bring us up to speed on where we are at and what we are going to present tonight. I'll start off with Site 1, which is the Northeast Pond Disposal Area. Back in February, we met with regulators at a TRC prior to the RAB meeting. We discussed the concept of bank stabilization and presented some rough alternatives for what we thought would be appropriate. If you'll recall, we have a lot of sediment, not a high concentration, but we do have several hits of sediment contamination at the base of the landfill in the wetland. We also have significant sink holes at the top, and the bank continues to erode into the pond. So we felt that it would be

So we felt that it would be appropriate to introduce a bank stabilization project to alleviate that, knowing that there's a

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We came back and basically wrote an action memorandum that outlined what the Navy's preferred alternative is, out of that report, of several. And we submitted those in October. I believe hopefully everyone got a copy of that. That was what we wanted to discuss with regulators at this technical meeting. They were unable to make that. We have rescheduled that technical meeting for November 8th in Stony Brook. So that will be our first item of business with the state, is to get their comments on our recommendations. Basically what it is, it's just basically to cut the bank back at an angle of three to one and revegetate it. It's really to start at the toe. So it is going to be a significant cut into the landfill, but it will give it a flatter slope and stabilize that, and that's basically what that alternative.

CO-CHAIR JOHNSON: Do you have -- you said a significant cut. In feet, 10 feet, 12 feet.

MR. COLTER: I can't really recall what the horizontal distance is.

MR. BRAYACK: 40 to 60 feet in places based on how high it is.

1 Proceedings 2 A MAN: What do you do with the 3 material that you scrape off. MR. COLTER: One of the 5 subalternatives was either off site disposal of the 6 material or to consolidate it on top and our 7 preliminary read from the state is they'll allow us 8 just to put it on the top. So that is a significant g cost savings, knowing that the final remedy will be 10 some type of cap. 11 A MAN: If you're going to cap that, 12 and in any way, what impact does that have on the 13 future use. Is that going to be forever off limits? 14 MR. COLTER: Basically it will be a 15 capped landfill and there are some appropriate uses 16 for that. You won't be able to develop on it 17 obviously. But the land reuse plan submitted by the 18 Town of Riverhead basically had that area as kind of 19 a refuge or a preserve anyhow because of the 20 location of the wetlands. So the LRA's plan as 21 presented in the reuse plan is really not to develop 22 that area anyway. So it is kind of a consistent use 23 with the LRA's plan. 24 A WOMAN: When you do that bank' 25 stabilization, how long before you cap it. 10

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groundwater contamination associated with it. The levels are in some cases above drinking water standards but they are not extremely high. And we put additional wells on the what would be the downgradient side of the pond, which would be to the north and east, and we didn't find any exceedences in that level. The levels are low, and they're not

MR. COLTER: When we put the debris on top, we will cover that with a soil cover. Because it will be some length of time before you go get to the cap, we just won't leave it exposed. We will do -- we'll have to do OSHA type work to make it safe. And we will put a soil cover over it. We will continue to monitor the groundwater and if we start seeing impacts in the downgradient wells, that will trigger a groundwater response.

CO-CHAIR JOHNSON: Do you have a regular monitoring plan at those wells.

MR. COLTER: It is not regular. It will be, once we basically get into a remedy of -- we'll get into either quarterly or semi-annually sampling. Right now what we do is sort of what we've done when we are doing a

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MR. COLTER: That is going to depend on the funding structure. Right now, the funding -- we'll talk about the milestones. The final remedy for Site 1 isn't budgeted until 2004, or something like that? But that's -- that's a snapshot look to try to balance our budget. Basically the way we run is if you have a project and you're ready to go and somebody else's project is slipping, which always happens, a lot of times we are able to fund a project like this. The reason -- if we do the bank stabilization first, that is a portion of the total cost. The cap is the other portion. It's we have a better chance of funding the bank this year and say the cap maybe next year, versus the cap and bank all at one shot. And you would probably have to fund that and the out years because of the cost of both. A WOMAN: If you only do bank

stabilization, the rain waters runs into that. So that's going to go into the groundwater. So you have to do both at the same time. MR. COLTER: The chromium I believe?

- 23 is -- Dave, can you help me out on that.

MR. BRAYACK: There is some

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corrective measure study, we want to get a snapshot shot of how it looks. We go out and take a round. We don't have anything structured at this point. But those structured sampling events will be made part of the remedy.

CO-CHAIR JOHNSON: You mentioned the corrective measures study. At the Technical Review Committee meeting back in February -- it stuck in my mind, because it is going to be an EPA cap, cap.

MR. COLTER: A state cap.

CO-CHAIR JOHNSON: They said that you don't have to do a corrective measures study for that. Is that true.

MR. COLTER: Actually, you're right. We'll have to do I guess what amounts to a focused Feasibility Study. We'll basically know the remedy. But, yes, you're right. I do remember that now.

CO-CHAIR JOHNSON: Does that save you

some money.

MR. COLTER: Definitely. We probably will be able to just put together a decision document.

CO-CHAIR JOHNSON: Could that move the timetable up any at all.

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prevents erosion.

Proceedings MR. COLTER: I'm not sure if it will move the timetable up only because when we get into the sediments. the schedule that I showed you, there's a lot of reports going out. CO-CHAIR JOHNSON: I have 2005 --sense --MR. COLTER: That is like I said our budget today. We just got done doing our budget exercise. We can't exceed our final numbers. My management arbitrarily moves things around to make it even, that is not necessarily what's actually going to be reality. I'm hoping to get that cap done way before 2005. A MAN: You're going to put the soil covering on the debris, is grass or some kind of planting. Is it a dense grass covering, something to stabilize that? How is that stablized? MR. COLTER: We'll have some type of vegetative cover on that, the cap will go on top of

The specific type of grass and things I'm not sure. We leave that up to a contractor.

that when the final remedy goes in. But the bank

stabilization itself will be soil and a vegetative

type of cover at a slightly less steep angle so it

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happen that we could consolidate the debris but not the sediments.

A MAN: It makes sense to put it under the cap. But it doesn't seem to make

MR. COLTER: We'll have a soil cap covering the debris and the vegetative cover on that, because there will be sometime before a cap goes on. Like I said we won't leave it exposed.

MR. BRAYACK: One of the issues is that the landfill has been there well over 20 years and it is sand. And what has leached or can leach has already leached. What we are seeing remaining in the sediments and in the waste are basically non-leachable type chemicals. If we had something that would be leaching --

A MAN: Even what you're finding -- what -- a little bit concern I'm raising is stuff you're going to dig up on the edge of the pond that has already leached out. And you're not finding that in the landfill. But that stuff is probably a little more mobile.

MR. BRAYACK: No, they are all pretty much very immobile as to what's left. One of the

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What we'll also do, while we are doing the pulling back of the landfill, since our sediments are right there at the base of the landfill, we'll probably just go in and excavate those contaminated sediments. Again put them on top of the landfill and just close out on the whole sediment contamination question. It's probably cheaper to do that than it is to discuss whether the sediments represent an ecological concern or not.

A MAN: Does the state have any comment with putting soil on top of the landfill and letting it leach for several years before putting a top on it.

I thought if they let you do that, you have to cap it not that day but within a reasonable time frame. Rain is coming down on there for a couple of years, it is going to wind up just back where it was over time. So something will have to be done with it if you can put it on top.

MR. COLTER: The state has the report. We haven't met with them obviously to discuss -- they may have a concern of that. Like I said, there is two subalternatives, one is off site disposal. One is on site consolidation. It could

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requirements with the landfills is you do leaching tests on it. And we haven't had a problem with leaching on those sites. But it is the nature.

A MAN: The sediments would be non-hazardous.

MR. BRAYACK: In many cases the sediments pass human health standards. You could put it in your front yard, basically. But they do have a potential risk of ecologic receptors, the fish, there's a blue heron that hangs out there, tiger salamanders, that type, is the real risk with that. It would get picked up and put under probably a foot of soil cover.

 $\mbox{MR. COLTER:} \ \ \mbox{Any other questions} \\ \mbox{about Site 1?} \\$

 $$\operatorname{\textsc{CO-CHAIR}}$ JOHNSON: This is going to be on the agenda for the TRC.

MR. COLTER: Yes.

MR. COLTER: At Site 2, at the last RAB meeting, you'll remember we gave a presentation and GIS and a cross-sectional presentation of what the site contaminants look like at that time. And since then we've restarted that pilot air sparging system that is in place out there. We still had an

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operating budget for that so we turned it back on for this summer to try to get a little bit more VOC removal from the main contaminated area around the Fire Ring. That is still in operation right now. It will be shut down coming up for the winter again. Next year, if we have the budget enough, we'll evaluate, to run it some more. The more we run it -- when we first started it back in '96 and '97, we got over 90 percent removal. We are still running it now trying to break loose some free product that is out there. That is the other thing we are

doing, is free product removal.

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At the last meeting we presented vapor assisted oil skimming process wasn't that effective due to the high water table and basically the lack of significant product. We announced that we were going to institute a passive recovery basically putting pillows, if you will, in the wells and leaving them there for several weeks to soak up free product and change them out periodically. That got started, late summer that program got started. We collected pillows from 18 wells at Site 2, and 16 wells at Site 6. That material was sent to the lab for analysis. Based on the results that come back,

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investigation a few years back, the previous owner denied us access and just again at the last RAB meeting we announced that we had just received property access from the new owner. That was part of our summer field work, was to go out on his property and implement the work plan that we handed out at the last meeting.

I just received the internal draft report from Tetra Tech. Basically primarily we didn't get any hits of VOCs on that gentleman's property. So I'm reviewing that report and just because of the volume of reports we are putting out for the other sites, and the Christmas and Thanksgiving holidays, we probably will not submit that to the regulators until sometime in January.

 $\mbox{\sc CO-CHAIR}$ JOHNSON: How many wells did you put in there.

 $$\operatorname{MR}.$ COLTER: How many wells total, we had two phases.

MR. BRAYACK: Eleven.

CO-CHAIR JOHNSON: Probably -- did you have a slide on where they were.

MR. COLTER: At the last RAB I think we presented the work plan. They basically did a

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they'll be able to quantify how much free product they got out of the aquifer. And those results haven't been returned yet. So there will be a report. We'll do that until December. We'll do a report. And then we'll evaluate what if anything we should do the next fiscal year if we should continue to operate that or if really if there is anything out there to recover.

Hopefully the air sparge system that we've turned on will help break up any of the slight product that might remain, maybe it will help get it mobile and get it moving into the wells. So we'll see how that works.

We also did field work at the Electronic Counter Measures Area. Site 9, that's the northeast portion of the property, near Calverton Enterprises, which I guess is a sand mining operation. A few years back, we did an on-site investigation at Site 9, we found low level VOC contamination, I believe 35 and 55 in two wells, parts per billion of 1,1,1 TCA was what we found. We also had a historical hit in a well off site on that property, owned by Suffolk County Health Department. When we went to do an off-site

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first round and we came out totally clean. And so we went in toward the Navy site and then we went way down just because possibly it could have been migrating past our initial point. We covered both. We went in and we went out. And weren't able to find any concentrations. It was low to begin with. The source obviously was removed when Northrop Grumman vacated and took away the building, whatever source that might have been. So we are basically just recommending no further action. We haven't presented that to the regulators yet.

CO-CHAIR JOHNSON: Just out of curiosity, does Suffolk County have any test wells in that area along 25 anywhere.

MR. COLTER: I'm not sure of along

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80 feet?

CO-CHAIR JOHNSON: Do you recall the original Suffolk County wells, how deep it was at that time.

MR. COLTER: I think it was -- was it

MR. BRAYACK: What was the question.
MR. COLTER: The original Suffolk

County well, it had the 120 in it.

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MR. BRAYACK: They had seven wells

and the furthest -- one well was approximately -- they started right at the fence line and they moved in an L shape.

MR. COLTER: Depth.

 $$\operatorname{MR.}$ BRAYACK: Those were water table wells, at that location the groundwater starts at around 40 feet.

MR. COLTER: We tried to find the well but the sand mining operator had it under a 50 foot mound of dirt, so we couldn't resample any of those wells. So we tried, based on our drawings, we sunk a well as close as we could to that location and couldn't recreate the hit.

CO-CHAIR JOHNSON: Okay.

MR. COLTER: Site 7, the Fuel Depot, again at the last RAB meeting, we announced the work plan to do a snapshot round of sampling to see what the current conditions of the site are so we could base that, use that in our corrective measures study. We also took parameters for monitoring natural attenuation to determine the viability of that as a cleanup alternative. We did that field work again during the summer. The EPA actually

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had responded to those comments and we were prepared to discuss them today at the TRC, which we didn't have. So that will be another item. Actually, we plan on submitting the corrective measures study in December. We have a draft to the state. So we want to try to accommodate their comments and concerns at the November meeting and incorporate those accordingly into the draft report of what alternative are we going to use out there? And we'll go over this schedule, here at the end of the meeting when we get into action items. We'll go over it more.

Site 6 and the Southern Area, we'll just talk about those combined. Again at the last RAB we issued a work plan to fill the data gaps that were identified at the TRC meeting previous. We presented that to you at the last RAB meeting. During the summer we implemented that work plan. Again the DEC issued their comments in June basically when we just got started mobilizing. Their only real comment was about the, on Site 6 area, where they thought maybe that deep area of contamination that was unbounded could be coming from an upgradient source. But as you recall in our

submitted comments in late February regarding that process. We responded to the EPA in writing and that was also sent with the final work plan that we submitted in late April. The EPA called us back, they had some questions on our responses, and we had a conference call with them. Basically their one main comment was the use of a peristaltic pump versus a submersible pump to collect the samples. We had no problem with that, so we changed our work plan to do that. With I guess one exception, right Dave? Where the well was too small in diameter to accommodate a submersible pump.

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MR. BRAYACK: Right.

MR. COLTER: That was the only

exception.

The DEC actually came in with their comments in mid June regarding the work plan. However, most of their comments weren't really centered around the work plan that we proposed. It was mostly what are we going to do with the data, how are we going to evaluate it, how is it going to be used in a CMS, how is it going to be used to determine whether it should be a stand-alone or an add-on technology to some other source removal. We

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work plan we had an upgradient well planned to ascertain whether that was a possibility or not. So that was basically their only comment and it was already addressed.

The site -- let me go back to Site 7 and Site 6. This is what Dave will be informing you about, the results of our summertime field work here, shortly. We again wanted to present that data to the state and the TRC to make sure that there's no other data gaps that we may have to go fill and how relevant are those data gaps before we start finalizing the investigation report for Site 6 in the Southern Area. So we'll discuss these, basically the presentations you're about to see, we'll discuss those at the TRC. Again, as my letters indicated, we'll incorporate all that data into upcoming reports. That is basically what the Navy has been up to since February.

What I'd like to do now is turn it over to Dave, to give you a presentation of the results that we got. You all should have gotten a hand-out mailed to you with the packages. I don't believe we are going to be able to show them on the overhead. But we'll just -- Dave will just speak

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about the handouts and try to go over what we did and what we found. Again, this information has to be incorporated into final reports yet. Ready, Dave?

MR. BRAYACK: We don't know what the problem is this time. We are not getting the interconnection. But I'm going to start with Site 7. I sent out -- we sent out handouts. I do have extra copies here for anyone who needs them or would like them. Just a brief review of the history of Site 7. Site 7 is an old underground storage tank area, a series of bulk storage tanks, mostly containing diesel fuel, jet fuel. There was one tank containing gasoline. All of these tanks have been removed as of 1998.

Back in the 1980's, Grumman was going through their underground storage tank program and discovered floating in around free product on the groundwater. At that time they implemented a free product recovery system. Very similar to what we are doing right now at Site 2 and at Site 6. The tanks that they had found that were problems have been all replaced with the more current type tanks. Like I said, as of 1998, all those tanks have been

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dots. Green dots means that it was detected above .7 micrograms per liter but less than 50. We didn't see much benzene as a problem at the site. Benzene once again is associated with gasoline which we didn't have much there.

If you go to the third page, figure three. You'll see the second chemical, which is toluene. There is one red hit of toluene meaning it is greater than 500. That is pretty substantial. As you look at these slides, too, it's important to remember that the groundwater flows basically from left to right in these figures. It flows almost due east. The red in the dot in in this figure, area, represents where the underground storage tanks used to be prior to being removed.

The next figure, figure four, shows the computer modeling of the location of the toluene plume. You'll notice that there's one plume that's to the left and up a little bit. If you look in the green area, FC-MWO4S, you'll see that plume goes to the north. That might be an artifact of the sampling. We don't have any real well data in that point. When we set up a remediation system, it will encompass this entire area.

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removed. When the tanks were removed from the ground, any of the contaminated soils that were associated with those tanks, at least above the tank, was removed at that point.

At this point in time, we believe that there's only some groundwater contamination left. We have not seen any free product petroleum in this area since 1995, even though we've looked once or twice per year. The four chemicals of petroleum are the benzene, the toluene, the ethylbenzene and xylene? These are the most toxic and also the most mobile. We did this presentation I believe about a year ago. One of the concerns we had at that time was some of our data was old. The Navy is moving towards a corrective measures study. That study is being worked on right now. As Jim Colter pointed out, it is due to the regulators, and the RAB, I think in December, correct, Jim?

MR. COLTER: 16 December.

MR. BRAYACK: We are moving towards a

22 corrective measures study on this. 23

The chemicals that we've seen in the past, this very first page in the handout is

benzene. You'll see that there's some little green

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The next figure, figure 5, is ethylbenzene. You'll notice that there's not any reds on the ethylbenzene. But there are a series of yellows indicating that the concentrations were detected between 50 and 500. Also notice there is a little more dispersed throughout this area.

And figure six, which shows the EVS computer modeling as to how the contaminant distributions apply. When you set up a cleanup system, you look at the worst case one. You use that to define the cleanup. That is pretty much what we are looking at here.

Finally, figure seven shows xylene. For those with chemistry backgrounds or organic chemistry backgrounds, xylene is the heaviest molecular weight of these, there is some other information, most difficult to biodegrade naturally. Diesel type fuels, it represents a higher weight - percent initially, less soluble in water than-some of the others. Looking at older plumes like we are here, xylene is pretty much the one that defines what's left.

If you go to the next one, Figure 8, I think some of the handouts might call this

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something else, but this is the xylene plume. If you look at Figure 8. Yours doesn't say xylene plume. This one right here, this is actually the xylene plume. Like I said, as far as definition on the groundwater contamination, if you look at xylene, when you encompass xylene, you encompass everything else.

So this is pretty much, we showed very similar maps to this back in I believe February or before that. Some of the data was older. We pretty much confirmed what we expected the contamination hasn't moved very much.

The other things you'll notice is on the far right here, there's four new wells in here. One that you had known about and that is O7S. I think at the time there were comments about putting deeper wells in. So what we wound up doing, since we were out there for other reasons, we put in deeper wells, known as O7I, that's another 20 feet down. We also installed a well to the north and to the south to make sure that we are not missing the contamination. The other things we did too is put a permanent monitoring well in between where we knew the site was and where our perimeter monitoring well

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gradient. It is a standard technology. It's going to evaluate air sparging in the source area, kind of what is going on in Site 2. The air sparging does have some benefit for stripping the volatiles. When you get to the petroleum type chemicals, what it really does is it provides oxygen. It enhances insitu biodegradation. Biodegradation does 50 to 90 percent of the work. The air sparging does the balance.

The third technology is what is known as ORC and HRC. ORC is oxygen releasing compound. It's a, generally some type of organ -- not organic. Some type of slow release oxygen compound. It looks at enhancing biodegradation by converting it to an aerobic environment. That works well on the fuel chemicals BTEX and other related chemicals. It doesn't really work on the chlorinateds. Also, looking at HRC. Hydrogen releasing compound. That targets, it creates an anaerobic environment that targets degradation of chlorinated solvents.

The HRC doesn't really have much relevance at Site 7 so much. It is more significant at some of the other sites.

CO-CHAIR JOHNSON: Like 2.

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was. Like I said, it was a convenient time to do that. I think the RAB members overwhelmingly requested this.

CO-CHAIR JOHNSON: How deep is the permanent well?

MR. BRAYACK: It's groundwater is about 15 feet. It is 20 feet below that, so it is 35 to 40 feet. We are working on a report with that. And that will be coming up.

The only other thing I'd like to point out is there is freon in this area as well. The freon hit, it doesn't show it, on a previous presentation we had shown it, but it is down in this general area here. It is very isolated. As we were collecting these samples, we did get a couple of stray freon detection, in the 10 to 14 parts per billion range. We don't see freon as a major plume, but any type of remediation would have to address that freon as well. I don't want to hide anything. I don't want to be misleading.

So this really sets the basis for the corrective measures study. The corrective measures study is in progress. It's going to evaluate groundwater remediation in the source area for down

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 $$\operatorname{MR.}$ BRAYACK: 6, actually 6 is the best candidate for that right now.

As you know at Site 2, we shut the system off in the winter and turn it on again in the summer. To an extent what we are doing is converting the aquifer from aerobic to anaerobic and back again. Some of the organics are degrading aerobically, and some are eroding anaerobically. So that is something that has been occurring.

As part of this investigation, and one of the reasons for the delay of the corrective measuress study, is that we are evaluating the monitored natural attenuation. In the package that I distributed, I handed out an evaluation — or actually the ROD data that goes into the monitored natural attenuation evaluation. We are right now preparing a technical memorandum. That technical memorandum will summarize the potential efficiency of MNA at this site. If your get into the data, what you're going to see, it really suggests that monitored natural attenuation is working at the site. The plume is not really expanding. There is some movement of it. When you do the biodegradation rates, it is predicting a stable plume, which is

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pretty much what we are seeing. The third component of it is is you have to monitor over a long time to show that the plume is not migrating or expanding on you. We have limited data on that.

But the second thing with the evaluation was that knowing the plume's not expanding, if we just leave it go as is, it is going to be there for a long, long time, tens of decades. If we go in and treat the source area through enhanced biodegradation, it shortens it to perhaps less than ten years. That's what the corrective measures study will be providing. It will be providing these different options.

I guess at this point, is there any question on the Site 7, the plume delineation, the monitored natural attenuation results?

A MAN: On the sequence of things. Looking at this other handout you gave us tonight. If you did continue with this acceptance by the regulators, December, early next year perhaps, you wind up with a ROD by June of next year.

MR. BRAYACK: (Nodding)

A MAN: Then your budget has, looks like starting pre ROD activities and going right

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recommend as the preferred alternative. We are willing to take a little bit of a risk by saying that while the regulators are reviewing our CMSes and our decision documents, we'd like to start designing, doing some prelim -- a lot of this is pre-award work that you have to award to a contractor to do your design. So there really isn't much in particular there because they're going to design something. We'd like to get that process started as soon as possible. We are actually looking to design a system. We do feel there will be at least a source area treatment system here. How big that system is, whether it is a full site system or a source area system with some other technology toward the lower end? That hasn't been worked out yet. But we are planning to design something and construct something, in sequence after the decision document is accepted.

A MAN: Two comments: One is you did this work this summer to update your data. Now it looks conclusive you have a good handle on the plume. I suggest you move quickly to make sure you act on it before you have to take more samples in the future.

Proceedings into implementation right after that. Is that speculative at this point. Are you leaning towards an active we we which is what I'm leaning and and what I prefer?

MR. COLTER: Can you say that again,

Bill?

A MAN: I'm not sure these are

numbered.

MR. COLTER: You're on Site 7. A MAN: Go by the i.d. 222 remedial design. Looks like June 26th, which is basically the day after the ROD. You're going into that award.

MR. COLTER: What we'd like to do at this site, since it is kind of our test site for a concept of going site by site and getting the information, finalizing reports and moving into the next phase, I was able to get money to do this site or have a remedy in -- actually, it is going to be, the award will be 2002. Because it's going to take some time to go from the design to that.

_23 A MAN: Right. 24

MR. COLTER: What we are trying to do, is we kind of know already what we want to

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MR. COLTER: I agree wholeheartedly. A MAN: Why spend any more money on

MNA when we are all agreeing.

MR. COLTER: MNA is kind of a new

concept as far as remedies go.

A MAN: Uh-hum.

MR. COLTER: More the scientific community is starting to recognize just natural biodegradation sometimes cleans up lower level plumes faster than a pump and treat system because of the ineffectiveness of pump and treat at low concentrations. The Department of Defense put out a policy wanting us to monitor and evaluate natural attentuation as a stand-alone. Give it something to compare it to. As Dave said, if you had MNA as the sole alternative here, it would be tens of decades to clean up. You have a baseline to say if you do a source area removal, which may cost a little more, we are talking eight to ten years. So you can actually see that. There are some things we have to do. The one step is we have to determine if natural attenuation is even viable. In some type of bedrock type of settings, it may not be as viable. So you have to do those data collection to satisfy folks

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37 1 Proceedings Proceedings 2 like the EPA and the state to say, well, we know it 2 hydrocarbons. There's very little, we are seeing 3 will work. Now we'll evaluate how fast it will 3 very little benzene there. 4 work. 4 A MAN: Given that statement, why 5 A MAN: Okay. 5 didn't you look for the heavier compounds. 6 MR. COLTER: I think, though, 6 MR. BRAYACK: We did the TCL 7 hopefully we'll be able to move faster with MNA at 7 TAL -- we did the TCL list for organics, which picks 8 this site because Site 7 is the model and because 8 up the particulars as well as the tentatively identified compounds. 9 the geology is similar. The only difference is the 9 10 type of contaminant that's there. I'm hoping that 10 A MAN: MTEB? 11 we can piggy back on the work that we did at Site 7 11 MR. BRAYACK: MTEB, this site wasn't 12 12 to speed up the MNA reports for the other sites. really active past 90, mid 90. MTEB wasn't really 13 CO-CHAIR JOHNSON: Going back to your 13 an issue. 14 EPA comments on this that they submitted in January. 14 MR. COLTER: But we did sample for it 15 15 They kind of raised that issue. and didn't see it. 16 16 MR. COLTER: Yes. A MAN: You didn't see it. 17 17 CO-CHAIR JOHNSON: About MNA without MR. COLTER: A lot of the work we did 18 18 source treatment, they actually said it is unlikely was several years prior, where we basically scanned 19 to be an effective remedy. 19 out everything except the BTEX compounds. What 20 MR. COLTER: Right. 20 you're seeing is just centered around the BTEX. We 21 21 CO-CHAIR JOHNSON: So that's what you did a lot of the preliminary. 22 22 are still working on with them and are they going to A MAN: That is what I want to know. 23 23 recommend on what you are actually proposing? MR. COLTER: Investigations and Phase 24 MR. COLTER: They'll comment on the 24 I RFIs a year and a half, two years ago, where we 25 25 didn't find the TCEs and PCEs, and things like that. CMS when we submit it. 38 1 1

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So we basically scanned them out and started dealing with just the BTEX and what are the alternatives to clean up the BTEX? That seems to be our chemicals of concern.

A MAN: Was that found in the shallower soil samples?

MR. BRAYACK: No. No, most of the tanks, the bottom of them was around 13, 14 feet. We were not able to dig within the tank's area during the program so we sampled the soils around it. But as the tanks were coming out, any of the soil that was identified as contaminated, the county oversaw our excavations as part of the TAP Program. Any of the soil that came out with contamination with it was hauled off site for disposal. Then we generally took N samples. We saw contamination generally right around the 15 to 17 foot below ground surface depth, and that corresponds to the water table. What we think we were looking at was the remnants of a floating free product that had been smeared across that zone.

MR. COLTER: That zone of soil will be addressed as part of our remedy. It will be a groundwater remedy but it will have a component to

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                       CO-CHAIR JOHNSON: Okav.
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                      A MAN: Am I to understand that the
 4
        BTEX was done along with the rest of the compounds
 5
        usually found in gas? Or are you just focusing on
 6
        that for the cleanup.
 7
                      MR. BRAYACK: What we did was the TCL
 8
        List, which is a VOC scan basically. So we focused
 9
        on the chlorinated plus some of the BTEX.
10
                       State drinking water list, you're
11
        familiar with that? That's what we did.
12
                       We did not test trimethylbenzes.
13
                       A MAN: Dichlorobenzenes?
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                       MR. BRAYACK: We would have picked up
15
        dichlorobenzene when we did the DSOV and VOC scans.
16
                       A MAN: That was probably leaded gas
17
        there.
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                       MR. BRAYACK: We checked for lead.
19
                       A MAN: There was no -- discernible
20
        increase in lead.
21
                       MR. BRAYACK: No. The reason being
22 .
        is this farm was more for the trucks, the diesel
23
        trucks, than the planes. Which means it wasn't
24
        really gasoline. It was diesel jet fuel, rather
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than the more, the heavier compounds and the

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1	Proceedings	- 1	1 Proceedings
2	address the deeper soils at the interface.		in essence, regulatory or risk based criteria.
3	A MAN: What happened to the diesel		3 CO-CHAIR JOHNSON: So are you saying,
4	fueel? The jet fuels seem to have disappeared		Don, that there are things there that they are not
5	entirely. It's BTEX.	1	5 testing for, basically, if I'm.
б	MR. COLTER: That's all we found.		6 A MAN: No, I believe you said you
7	MR. BRAYACK: Well, we did DRO and	-	7 did diesel range and gas range.
8	GRO as part of the analysis. So we do have as	- [8 MR. BRAYACK: (Nodding)
9	you know, the BTEX is just a portion of the fuels		9 A MAN: You didn't say whether you
10	and it represents somewhere between two and maybe 10	1	O found it or not.
11	percent of the fuels. These are the ones that are	1	MR. BRAYACK: Yeah, we found it.
12	regulated.	1	2 A MAN: Yeah, there's stuff there
13	A MAN: That is still a question.	1.	3 they're not cleaning up.
14	MR. BRAYACK: No, it is there. It	1	4 CO-CHAIR JOHNSON: Thank you. That
15	is there as hydrocarbons.	1	is simple enough.
16	A MAN: You mean it's there as a	1	6 A MAN: That is where I was heading.
17	degradation product only.	1	You made the statement, and I agreed with you, most
18	MR. BRAYACK: No, I'm sure there's	1	8 of the fuel out there was not gasoline based, it was
19	some of the original.	1	9 a fuel designed for jet engines and and that's
20	A MAN: That was the whole question.	2	O you're not going to see a lot a lot of, a lot of
21	You're addressing BTEX.	2	BTEX out of that. But you're going to see the
22	MR. BRAYACK: We are addressing BTEX	2.	2 heavier ends but there is no cleanup criteria for
23	in groundwater.	2.	3 that I wasn't aware there is no cleanup criteria
24	A MAN: As the parameters for the	2	for that. I thought there was.
25	cleanup.	2.	5 A MAN: Do those data show up in your
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7	Proceedings	- 1	1 Proceedinas

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Proceedings 2 MR. BRAYACK: Yes. 3 A MAN: You expect to get the DRO 4 stuff. 5 MR. BRAYACK: There is no state 6 standard for DRO and GRO. We have no cleanup goals 7 for DRO and GRO, other than no floating product. 8 A MAN: Maybe I'm missing something. 9 There was very little gasoline and a huge amount 10 historically of jet fuels, which doesn't encompass 11 if I remember correctly benzene, toluene and xylene. 12 MR. BRAYACK: Very little benzene, 13 but it encompasses benzene, toluene and xylene. 14 A MAN: Also the heavier end. 15 MR. BRAYACK: C-10s, C-12s and C-14s. 16 A MAN: And C-8 and C-9s. 17 MR. BRAYACK: Yes. 18 A MAN: I'm curious and I apologize 19 for coming in at such a late date and asking you 20 these historical type questions. Why wasn't that 21 addressed, because there's no state cleanup goal for 22 it, is that it? Is that what you're saying. 23 MR. BRAYACK: Pretty much, yeah. If 24 there is no risk and there's no regulation, and we 25 are looking at the remnants of it, we clean up to,

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baseline survey.

MR. BRAYACK: The "GRO", is gasoline range organics. And "DRO", is diesel range organics. They are a measure of total hydrocarbons. They don't split them out individually. That if you would take, you know, a pound of gas or a pound of diesel and put it on a fuel, it would measure a pound of DRO. It would measure, you know, two percent of that as toluene. So it would measure whatever that corresponding number is.

MR. COLTER: I think one thing you got to remember is in the State of New York, they don't regulate total petroleum hydrocarbons. Their Starrs Memorandum No. 1, which dictates tank cleanups, says you sample tank sites for VOCs and SVOCs. If you find them in excess of drinking water standards, you invoke a cleanup. It doesn't regulate total petroleum hydrocarbons such like the State of Pennsylvania might, at say 500 parts per billion. They don't have a standard TPH. We sample VOCs and SVOCs. The absence of those does not trigger a cleanup under the Starrs Memorandum.

A MAN: Starrs Memorandum catch that in a GCMS analysis.

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1	Proceedings	1	Proceedings	•
2	A MAN: What is that, Don?	2	the remediation on.	
3	A MAN: Gas chromatography.	3	MR. COLTER: I want to go back and	
4	A MAN: What is GCMS.	4	look at the data so I can get you a proper answer.	
5	MR. BRAYACK: That is what we do when	5	A MAN: You may have to encompass a	
6	we do the analysis.	6	little more.	
7	A MAN: So you have, you have, then,	7	MR. COLTER: We may have to, right.	
8	the records that show that there's diesel	8	Let us go back and dig out the data to give you a	
9	contamination here. If you did GCMS, then you know	9	better answer so we can incorporate it into a	
10	there's diesel contamination there. Even if it's	10	cleanup or give you data to show it is not a	
11	non-regulated. Even if it is under the baseline.	11	concern.	
12	You understand what I'm saying?	12	CO-CHAIR JOHNSON: Send a copy to	
13	MR. BRAYACK: I think what you're	13	whatever you send to him, send to me.	
14	asking us to do is do we have.	14	A MAN: Can we have it as an action	
15	A MAN: I'm just asking you. I'm not	15	item at the next meeting.	
16	asking you to do anything. I'm just asking you.	16	CO-CHAIR HARE: Instead of sending it	
17	MR. BRAYACK: Do we have organics	17	out, why don't we just include it. We'll include it	
18	greater than background present at the site? The	18	in the discussion perhaps for the next RAB meeting.	
19	answer is yes. Do we have organics greater than a	19	A MAN: I have one more question.	
20	health based standard or a regulation based standard	20	Have you monitored for methane production, which	
21	at the site? That is what we are addressing. We	21	would indicate a natural background degradation? Or	
22	are addressing all the health based and the	22	are you just assuming that because it is	
23	regulation based constituents.	23	disappearing.	
24	A MAN: Have you published those?	24	MR. BRAYACK: This summer we did the	•
25	MR. BRAYACK: What's that?	25	monitored natural attenuation. We collected	
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1	46 Proceedings	1	Proceedings	18
2	Proceedings A MAN: DRO/GRO GCMS data as other	1 2	Proceedings groundwater samples and we analyzed those for full	18
2 3	Proceedings A MAN: DRO/GRO GCMS data as other than your target compound.	1 2 3	Proceedings groundwater samples and we analyzed those for full VOCs, we added Methyl Tertiary Butyl Ether to that.	18
2 3 4	Proceedings A MAN: DRO/GRO GCMS data as other than your target compound. MR. BRAYACK: Yes, that is in all our	1 2 3 4	Proceedings groundwater samples and we analyzed those for full	18
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2 3 4 5 6	Proceedings A MAN: DRO/GRO GCMS data as other than your target compound. MR. BRAYACK: Yes, that is in all our reports. That is in the Riverhead Free Library right now. And I think the RAB the full scans	1 2 3 4 5 6	Proceedings groundwater samples and we analyzed those for full VOCs, we added Methyl Tertiary Butyl Ether to that. A MAN: The methane you analyzed in the water. MR. BRAYACK: Yes.	18
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1	Proceedings	1	Proceedings
2	MR. BRAYACK: I'm sorry what	2	MR. BRAYACK: Yes, that's the xylene.
3	A MAN: Okay. Your little red dot.	3	CO-CHAIR JOHNSON: That's the xylene.
4	MR. BRAYACK: Those are greater than	4	MR. BRAYACK: When we went through
5	500.	5	the maps here, this is the big red blob. When you
6	A MAN: What are they.	6	run the software, the bigger the concentration, the
7	MR. BRAYACK: That is in the data	7	more it expands it outward.
8	package that we sent you. The maximum was 4,550.	8	A MAN: On the Site 6 and 10 data,
9	A MAN: That is where I'm at a	9	you show a maximum concentration, which is very
10	distinct disadvantage.	10	helpful to know what your upper bound is. Maybe you
11	MR. BRAYACK: Did you not receive the	11	can do that on your Site 7 map, too.
12	package that we sent.	12	MR. BRAYACK: Okay.
13	A MAN: I got that from somebody	13	A MAN: Instead of maximum could you
14	else.	14	actually say the number?
15	CO-CHAIR HARE: You're not on our	15	A MAN: They do on the other one.
16	mailing list.	16	A MAN: On the other map they give
17	A MAN: I've seen your list. I got	17	you five maximum, but they actually give you the
18	some stuff here. I'll show you what I have.	18	number 4,000.
19	CO-CHAIR HARE: I'm puzzled because.	19	MR. BRAYACK: Yes, there is a fuel
20	A MAN: It is not a big issue.	20	problem at the Site 7. That's.
21	MS. HARE: We send out information	21	MR. COLTER: Any other questions on
22	prior to the RAB.	22	7? We'll move into 6 and the Southern Area.
23	MR. BRAYACK: Yeah.	23	MR. BRAYACK: Okay, the next one.
24	A MAN: I'm not complaining. I'm	24	A MAN: You know, I have one other
25	just new here.	25	question. What laboratory are you aware of what
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	50		5.2
1	50 Proceedings	i	52 Proceedings
1 2	Proceedings	1	Proceedings
2	Proceedings CO-CHAIR HARE: The reason I'm	i	Proceedings laboratory generated this? Is this in-house or is
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2 3 4	Proceedings CO-CHAIR HARE: The reason I'm checking into this is because if there is a RAB member who's not getting the data for any reason	1 2 3 4	Proceedings laboratory generated this? Is this in-house or is this out sourced. MR. COLTER: We have a lab out here.
2 3	Proceedings CO-CHAIR HARE: The reason I'm checking into this is because if there is a RAB member who's not getting the data for any reason then I need to go back and figure out why that is.	1 2 3 4 5	Proceedings laboratory generated this? Is this in-house or is this out sourced.
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pointed out earlier, there is a passive free product recovery system going on right now for this site.

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What we know or what we suspect is that Site 6 Fuel Calibration Area was the primary source of the VOC contaminated groundwater. From this area, groundwater in this area is only five feet below the ground surface. When there's good rain the water table rises there is a series of drainage ditches that run through this area. The drainage ditches run first to the east then to the southeast. They discharge into some ponds which are near the southern edge of the Navy's property, that is how we got the name Southern Area. What's more, not true ponds. They are more of a wetland type

these ponds they are dry most of the time. They are area. As they fill out, there are culverts that run underneath the road and they drain toward the

19 Peconic River. The three chemicals that we are 20 looking at 1,1,1-trichloroethane. As you could see,

21 we found it in the source area as high as 12,000 22 micrograms per liter.

> The next chemical is the 1,1-dichloroethane. 1,1-dichloroethane is a biodegradation product. It is an anaerobic

downgradient. You could see in the initial source area where we went to minus 160 minus 180, that is feet below mean sea level, that is approximately 200 feet below the ground surface at that point. What we found in that area was some very deep contamination straight down.

As part of this current investigation, we put wells upgradient. Because there is an old paint hangar and down gradient trying to delineate the extent. Ultimately, like you said, you get down toward these last clusters here and some of these clusters are close to the Peconic River.

If you go to figure TCA3, what this is, is a computer representation of basically connecting the dots both horizontally and vertically. It uses the kriging method. And it looks at all the data. What you'll basically see in this, up near the initial source area, is one area. Downgradient from that, is a second area. It's possible the two areas are connected. You can't read too much into these reports. What we do know, though, is in between, that it was relatively clean. Most of the wells that we put in that area didn't

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degradation product of the 1,1,1-tricholoroethane. When the bacteria work on it, they strip chlorine off it and it becomes a dichloroethane.

The third chemical listed is 1,1-dichloroethene. This is also very related, very closely related to the trichloroethane. You see this as a breakdown periodically. It is not as common, but it does happen.

These three chemicals make up the majority of the chlorinated hydrocarbon problem for this area. We had done a presentation, I think it was about a year ago, where we looked at all the chemicals that were detected in this source area. As part of this investigation, you know, we focused it down to these three chemicals. Although when we did the analysis, we did analyze for all of them. But these three for the most part define the plume, the problem area from the Fuel Calibration.

The current investigation and I'm going to go from -- to the second page in, which is identified as TCA2? _As you're looking at this, to the far left is what would be the source area. And this well cluster all the way to the right would be into the downgradient area pretty much the furthest Proceedings

have any detected TCA. And if you get toward the fence line, this is Grumman Boulevard running along here, we started getting sporadic hits. We were also getting a lot of non-detected results, to where we got sporadic hits.

Finally the Peconic River is represented by these two dots here. These are right on the Peconic River itself. And, Don, for your information, this green dot here is, I believe it is known as the pistol range on the Sportsmen's Club. But we did find some hits of 1,1,1 trichloroethane at that point.

Going to figure TCA 4, you'll see some of the sporadic nature of the 1,1,1-tricholoroethane. There are places, you know, where we find it and we did finely delineate it. But you can see it is showing up in various places throughout this area. For the most part the highest concentrations are all located right in the shallow groundwater at the site. As you go to depth, you'll find elevated levels as well, but not as high. You go throughout this area. The maximum detection we found was about 200 micrograms per liter of -- that wasn't the maximum. It was the other chemical, was

57 1 Proceedings Proceedings 2 200. We found several hits off-site of CO-CHAIR JOHNSON: To me, from a 2 3 1,1,1-trichloroethane. 3 layperson, when I look at this, the further you get If you go to TCA, Figure 5. This is 4 away from it, I think it would be deeper. So I 5 pretty much just looking at the data from a 5 would want to see -- I could be totally off base 6 different cross-sectional area, not much of 6 here. But it would make sense to me that some of 7 interest. Once again, cross-section BB on TCA 6, 7 these wells at least go down to the 160 feet and 8 just a different location going through the plume. 8 that you show non-detects if there were no hits. 9 Like I said, you'll see there's a green dot here and 9 Because I would assume, with no knowledge, with no 10 there's a green dot here. It is very likely that 10 background, being totally dumb and naive, that the 11 those dots are connected. You don't want to read or 11 contamination is going to go down and not come 12 misread too much into these. You have to use some 12 backup. 13 13 common sense when you are looking at these. MR. BRAYACK: Let me jump in for one 14 The 1,1-DCA. 14 second. 15 A MAN: Can you talk a little bit 15 CO-CHAIR JOHNSON: Am I wrong? Am I 16 more about TCA for a second. 16 totally wrong. 17 MR. BRAYACK: Yes. 17 MR. BRAYACK: Yes. 18 18 A MAN: You may have talked about Not totally wrong. But one of the 19 this before. I apologize if you have. 19 things that we did, as part of this investigation, 20 At the source you have these deep 20 we talked about this. Is we did the piezometer 21 hits. Then you don't really verify or validate with 21 study along the Peconic River. And we've talked 22 any of the downgradient wells because they don't 22 about this numerous times. When you're near a 23 23 come near those depths. groundwater divide, the groundwater generally sinks. 24 MR. BRAYACK: If you look, when we 24 The nearest real confining unit in this area is 25 25 were out there this last time, we put wells about 1100 feet down. So it has a lot of room to go 58 1 1 Proceedings

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approximately 100 feet downgradient from there and we put wells approximately 100 feet upgradient from there.

> A MAN: How deep did you go. MR. BRAYACK: The same depth. CO-CHAIR JOHNSON: You don't show

them, though, with non-detect hits.

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MR. BRAYACK: If you look at Figure 2, see the blue dots? There is actually three wells located in that. And it is really the angle that we are looking at.

CO-CHAIR JOHNSON: But what about all these wells in this area where the last non-detect you show is at 40 or 50 feet. How come you didn't go down to 100 feet there?

MR. BRAYACK: We went to 100 feet in a couple other locations. We had done this presentation before and what we found in the very source area.

CO-CHAIR JOHNSON: Right.

MR. BRAYACK: Was some very deep problems. What we wound up doing was, putting there, was borings one in the middle upgradient and one in the middle downgradient.

down. There are clay layers in between. It is not continuous throughout the area, but between around 50 and 60 feet we have been seeing in 70/80 percent of our locations, a clay layer. But more importantly, what we know is the groundwater just doesn't keep going down forever. It comes up somewhere. There is three choices for this area: One, is the Long Island Sound and

based on what we know, everything north of the groundwater divide, which is about the Fuel Depot, will come up into the Long Island Sound.

CO-CHAIR JOHNSON: We don't have to talk about northern divide.

MR. BRAYACK: Southern divide what we found is all the water, at least to a depth of 80 to 100 feet, rises into the Peconic River.

CO-CHAIR JOHNSON: It comes back up. MR. BRAYACK: We've talked about this a few times, but the Peconic River is the -- is a very substantial stream. I believe Sy Robins was mentioning this last time. One of our real concerns at this point was, will this contamination flow underneath the Peconic River and keep moving toward the Atlantic Ocean, or will it start coming up.

61 1 Proceedings 1 Proceedings 2 When we did the piezometers, what we found is 2 This area here is kind of unique. It 3 there's approximately a five foot upward gradient 3 is a mixture between diesel fuel and chlorinated 4 moving toward the Peconic River. We put -- the solvents. To form a DNAPL, you need to have --5 Peconic River cuts right through about the middle 5 A MAN: It is like 1 percent of. 6 here. We put a piezometer right on the Peconic 6 MR. BRAYACK: Somewhere between one 7 7 River, here. There were a cluster piezometers, and 10 percent, you start looking for a DNAPL. 8 water table, 40 and 80 feet. 8 A MAN: Man what is it for TCA -- you 9 CO-CHAIR JOHNSON: I recall that. g probably don't know off the top of your head. 10 Three a cluster. 10 A MAN: I know what a DNAPL is. Ann 11 11 MR. BRAYACK: One up in and I were talking about it before the meeting. 12 intersections, one at river. The river flows 12 A MAN: It is actually like product 13 between these two points. And we put one here. If 13 that sinks down. It's not just dissolved product. 14 the groundwater was going to flow and keep moving 14 It is product. 15 towards the Atlantic Ocean, what we would see, we 15 MR. BRAYACK: Non aqueous phase 16 might see a dip right near the surface. But what we 16 liquids. 17 saw was the groundwater elevation at a depth of 80 17 A MAN: These chemicals are much 18 feet down, in this center well, was about four to 18 heavier than water. They sink if they're not 19 five feet lower than the groundwater here and the 19 dissolved. What you can get at some of these sites 20 groundwater here. Which means the groundwater over 20 is, actually I think they have this problem at 21 here is flowing in toward it, too, which means it is 21 Bethpage, you can actually get places down very deep not under flowing. Okay, that's one of the 22 22 where the stuff is pooled up and it is hard to get 23 technical evaluations we are working on. The 23 it out, any way, if it is there. And it acts as a 24 Southern Area is a complicated area. 24 source, continual source, for very long time. 25 But getting back to your original 25 A MAN: Thank you. 62

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comment. We know the groundwater contamination flows downward, particularly near the Fuel Depot and probably the Fuel Calibration Area. What we've seen, we went back and looked at the data throughout the Southern Area, what we've seen with one exception, was that the contaminated groundwater never went below about 60 feet below the ground surface. In fact, some of the wells closest to the Peconic River showed it more shallow. Whether it got there by overland flow or by underflow coming up, that's the way it was going.

CO-CHAIR JOHNSON: Does that makes sense to you quys.

A MAN: I have a question. I don't know when you had the 12 how micrograms per liter of TCA but did anybody, particularly at the one location where you showed it is smeared down pretty deep, was there an evaluation done for potential of a DNAPL to be present there?

 $\mbox{MR. BRAYACK: We never found high enough concentration for a DNAPL.} \label{eq:mr. brayer}$

A MAN: Wouldn't 12,000 parts per billion be close to where that would be considered. MR. BRAYACK: It is at the lower end. Proceedings

MR. BRAYACK: There's a couple answers to that. As we drill, we take split samples. I have worked with DNAPL before. When you hit a DNAPL zone, it comes up and you could definitely smell it. You get thousand PPMPID readings. We didn't see that. As far as how the chlorinated solvent got there, I would suspect that we are looking at the remnants of a minor DNAPL. It went down, straight down. Now it is sitting there. But I don't think there is any DNAPL left out there. We didn't see any other evidence of it. It trips off our equipment. There is no reason why it should be at 180 feet. When we first found it there, we thought we were pulling it down with our sampling tools. We went back and cased it off and did it again. And we confirmed it.

So the numbers we are looking at depth are in the hundred plus ppb range. It was associated with LNAPL, light nonaqueous phase liquid. What we are seeing at that site, there's a floating free product layer, heavily contaminated with chlorinated solvents. The mixture is such that it floats on the water. But it still is able to, it probably decomposes and releases the TCS.

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65 6 1 Proceedings 1 Proceedings 2 A MAN: One of the things everybody 2 For the fuel, you do modeling, you 3 is -- how do you explain that the TCA isn't 3 look at historic conditions. In a case like this, 4 traveling at that depth. It got down there as a 4 this deep contamination? That's what the 5 DNAPL but we don't see it moving in either direction 5 corrective measures study does. Its intent is not 6 away from there and it should move. If it is 6 to let any of these go. The intent is to address 7 dissolved, it should be moving with the groundwater. 7 them one way or the other. But we have not seen 8 I'm not trying to -- it just seems funny you would 8 this deep component moving. 9 9 expect to be able to find some of it at depth. A MAN: I'm questioning are you 10 10 MR. BRAYACK: We know that the looking? 11 shallow groundwater moves much faster than deeper. 11 MR. BRAYACK: Yes. 12 12 A MAN: You looked in a couple of I just did the number in particular for Site 9, because we were looking at that specifically. How 13 13 spots very close to where that source was. If it is far could the contamination have gone in ten years, 14 14 traveling faster than what you're anticipating, 15 is what we were looking at. 15 could it be shifting further downgradient. 16 16 What we know, it varies from site to MR. BRAYACK: We saw it at the same 17 site because a gradient factors in some areas the 17 location again. We drilled the same location four 18 groundwater flows 100 to 200 feet per years, in ten 18 times, I think we drilled it in '94, '96. 19 19 years it should have gone a long way. A MAN: You saw lower concentrations 20 20 Second, we looked at what is known as 21 21 the retardation factor. When you have these MR. BRAYACK: No. The numbers 22 chlorinated solvents and these other chemicals, they 22 aren't roughly the same. 23 don't move with the groundwater. They flowed along, 23 A MAN: I thought you said hundreds. 24 they encounter a soil particle, absorb on to it, 24 MR. BRAYACK: As you go deeper, it 25 desorb, it becomes a smear zone. That is how the 25 gets less. 66 1 Proceedings 1 Proceedings 2 2 gas chromatograph works, it smears them out. But A MAN: Have you bottomed out on 3 what we do know is at depth the groundwater flows 3 this location? 4 4 much slower. Where we were seeing 270 feet, in one MR. BRAYACK: That is what we finally 5 5 case, at the surface, if you go down 50 feet, the did here. 6 number was more like 27 feet per year. It is a 6 A MAN: Are you planning on putting a 7 7 tighter sand basically, it is just a unique geolog permanent well at that location. 8 -- hydrogeological parameter, and that is what we 8 MR. BRAYACK: Right now we want to 9 are observing. 9 move to corrective measures study to evaluate 10 10 A MAN: That doesn't answer the potential remedies and based on those remedies, you 11 question. Why don't we see it traveling even if it 11 know, see what needs to be filled. We could keep 12 is at a slower rate. 12 studying this. We could just keep testing, but the 13 MR. BRAYACK: We do not know. We 13 question is when do you get to the point where 14 know the chemicals degrade over time. The half-life 14 you've collected enough data to make a decision. 15 15 for TCA is about one to two years. MR. COLTER: What we'll end up doing 16 16 A MAN: Really? is evaluating alternatives with this particular area 17 17 MR. BRAYACK: Yes. in mind, and then we'll also have a monitoring 18 18 A MAN: At this site, or just in program associated with it. Probably several 19 19 general? Because we don't see that. permanent wells to monitor whatever system or 20 20 MR. BRAYACK: That is what MNA whatever decision we make just to long-term monitor. 21 21 evaluation comes in and looks at. What these are, these are vertical profile borings, 22 22 A MAN: Would vou. they are temporary. As part of any remedy, we would 23 23 MR. BRAYACK: Monitored natural put in something more permanent so we can go back 24 attenuation works much better for the fuels. I 24 and sample on a regular basis. 25 think that is in agreement. We think basically we are in that

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       phase right now. We could drill this probably 10
                                                                         expanding and it is outside the purview of your
                                                                  2
 3
       more times and come up with the same thing.
                                                                  3
                                                                         analytical, of your focus.
 4
                      A MAN: That is what I'm saying. Put
                                                                                        MR. BRAYACK: Our focus is 2000 feet
                                                                  4
 5
        a permanent well in there.
                                                                  5
                                                                         away. Our focus for the source area has gone all
 6
                      MR. COLTER: To get to that point, we
                                                                  6
                                                                         the way to the Peconic River.
 7
                                                                  7
        want to get into remedy discussions with the state.
                                                                                       A MAN: Where you haven't found it.
 8
        Get out of the drilling one or two holes and.
                                                                  8
                                                                                        MR. BRAYACK: We found it close.
 9
                      A MAN: Right.
                                                                  9
                                                                         That is what we were talking about originally. Is
                      MR. COLTER: We don't see it moving.
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                                                                 10
                                                                         that we have gaps in the groundwater between the
11
                                                                 11
        So we will go out into our design, we'll reconfirm
                                                                         source.
12
       this data so we can put an appropriate remedy in as
                                                                 12
                                                                                        A MAN: Right.
13
       part of the design. So we will be back out here
                                                                 13
                                                                                        MR. BRAYACK: And the downgradient.
14
                                                                 14
        doing sampling.
                                                                         If you have a source that is continuously leaching
15
                      A MAN: Degradation products really
                                                                 15
                                                                         contaminants, you expect to see a more or less
16
                                                                 16
       don't follow mathematically the concentrations of
                                                                         continuous plume. What we are seeing is clean zones
17
                                                                 17
       TCA. Would you then assume that it's just expanding
                                                                         in between, which is very unusual.
18
       as a gas into the interstitial areas between the
                                                                 18
                                                                                        A MAN: Do the ponds take the run-off
19
        soil particles and is unavailable for analysis.
                                                                 19
                                                                         in there.
                                                                 20
20
                      MR. BRAYACK: Most of the
                                                                                        MR. BRAYACK: Yes.
21
                                                                 21
       contamination we have is at depth. In particular,
                                                                                       A MAN: So that could be dispersing
22
       as you go further down, which means that there is
                                                                 22
                                                                         the plume in different directions and making it
23
                                                                 23
       clean groundwater on top of it. So, no, I would not
                                                                         very --
24
       expect it to.
                                                                 24
                                                                                        MR. BRAYACK: Yes.
25
                                                                 25
                      A MAN:
                               But you haven't accounted
                                                                                        A MAN:
                                                                                                That would explain the plume
                                                              70
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 2
                                                                  2
       for where it went.
                                                                         broken up this way, you get a lot of rain and
 3
                      MR. BRAYACK: I'm missing your
                                                                  3
                                                                         recharge and it scatters the stuff and.
 4
       question.
                                                                                        MR. BRAYACK: (Nodding)
 5
                      A MAN: Mathematically, if you look
                                                                  5
                                                                                        A MAN: Or it is still just there.
 6
                                                                  6
       at 12,000 and you look at the degradation products,
                                                                                       A MAN:
                                                                                               It scatters it and makes it
 7
       they don't account for where all that TCA went into.
                                                                         more difficult to track it.
 8
       You do know you're seeing bits and pieces of it.
                                                                  8
                                                                                        MR. BRAYACK: Right. That is why
 9
                                                                  9
                      MR. BRAYACK: What we are seeing is
                                                                         this Southern Area, we are starting with basically a
10
       that the source area is not moving. It is sitting
                                                                 10
                                                                         two or three acre source area, a very small compact
11
                                                                 11
       there.
                                                                         source area, you know the data is not showing it is
12
                                                                 12
                      A MAN: And it is degrading.
                                                                         moving much. More than likely the hydrocarbons are
                                                                 13
13
                      MR. BRAYACK: Very slowly, yes.
                                                                         holding it in place there. It is moving somewhat,
14
                      A MAN: But the degradation products
                                                                 14
                                                                         and it's probably bioing somewhat. That is what the
15
       don't show up.
                                                                 15
                                                                         MNA tells us, there is degradation and/or
                                                                 16
16
                      MR. BRAYACK: 1,1 DCA and 1,1 DCE.
                                                                         attenuation exceeding migration.
17
                      A MAN: They don't add up to what is
                                                                 17
                                                                                        It is very likely that there are
18
       lost mathematically. My question is maybe instead
                                                                 18
                                                                         slugs of contamination that moved through, they got
19
                                                                 19
       of degrading, maybe it's just expanding.
                                                                         deposited in the one location and the next year a
                                                                 20
20
                      MR. BRAYACK: It is expanding and
                                                                         different set of rain conditions came through and
21
                                                                 21
        degrading, yes.
                                                                         they distributed a whole bunch of clean water
22
                      A MAN: But more expanding, right.
                                                                 22
                                                                         throughout there. But we are basically starting
                      MR. BRAYACK: That is what the
                                                                 23
23
                                                                         with the one, the two acre source area and we're
24
                                                                 24
        evaluation does.
                                                                         looking at a 100 plus acre downgradient zone right
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A MAN: Mathematically, it has to be

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Proceedings Proceedings A MAN: Can you play what if? usually you look at this from the standpoint that there was an operator there was an owner and there MR. BRAYACK: Never. CO-CHAIR HARE: Not in this business. were other issues involved, also, that have to be MR. BRAYACK: That's it for 6 and 7. considered. So in a lot of properties, the answer The only thing I skipped over and I think Jim is probably, yes, that with a lot of properties, addressed that, was the Site 1 discussions. I don't cost recovery will be sought from an operator. It know if there was any other questions on the depends on the situation. And each site or each EE/CA-Engineering Evaluation/Cost Analysis. The area, each facility, is different in that area. EE/CA-Engineering Evaluation/Cost Analysis is up for You know, I have one facility, GOCO review and comment right now. facility, where the contractor just left. Didn't do A MAN: Could I ask a question on anything. And refused to do anything. Most funding. Who pays for this, the Navy or Northrop assuredly in that instance where the Navy then has Grumman. to do the total cleanup of that property, we will MR. COLTER: The Navy. probably seek. A MAN: That's because they own the CO-CHAIR JOHNSON: You do that land. through the courts for the... CO-CHAIR HARE: The Navy is the CO-CHAIR HARE: Well, we try to make it a little bit friendlier than that at first. We property owner. A MAN: Do they get reimbursed by determine if there is, based on all the costs, if Northrop Grumman since they're the folks that put there's a percentage that we feel is attributable to this in. the contractor, and then we usually notify the CO-CHAIR HARE: Payment. The contractor and try to negotiate with him. property owner is held responsible. If we determine If that is not a viable option, if at some point in time, and we can't really do that the contractor is not agreeable, then ultimately,

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until we have our arms totally around remedies and costs and so on, if it is ultimately then determined that we need to seek some reimbursement under cost recovery, then we can do that at that time. Now, from the total perspective of the property as a whole piece, you know, originally we had 6,000 acres. Northrop Grumman did participate up front in some cleanup of this property. You have to remember that this is a small piece of the total piece of property, most of which has already been cleaned up and deeded over to the various receivers, Riverhead being one, and of course the state and Veterans Administration. So they did participate in this to an extent with a majority of the acres.

With this last part of the cleanup, if there is a determination that is to be made in that area, then we would make it when we have all the costs associated with this cleanup. Those are all known, and then that becomes a decision that is made at that time. So it would be premature for us to say at this time what we would do in that area. We would have to weigh what they had already done and contributed to the whole total piece of property and it becomes a bit complicated in the fact that

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yes, it would go to the courts.

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CO-CHAIR HARE: Not now it can't, no. All those things have to be weighed, the previous activity in the cleanup process, and then ultimately this portion of the cleanup.

A MAN: I'm not trying to be cynical. In other words it comes down to is it in the interest -- an outfit that works with the government, is it really in the public interest to go after them. I guess it is political. I'm not trying to be cynical, I'm trying to figure it out.

CO-CHAIR HARE: It really isn't that. That part is not really as much of an issue as it is you have to look at the total picture. We look at this property as a total piece of property under this particular GOCO. And we look at what did the contractor do up to this point with that total piece of property. The whole 6,000 acres? We look at, we would look at the total cost of this last phase of cleanup that Jim is doing now on this acreage. We weigh that. We determine, okay, do we think the

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1 Proceedings 2 contractor still needs to make another contribution? 3 And then we might look at that in terms of, well, 4 maybe up to a certain percentage the answer is yes. 5 So then we would contact the 6 contractor and then we would begin those discussions 7 if that were to be the determination. So there are 8 a lot of things that go into it to make that 9 determination. And really that gets into, really, 10 that's when the lawyers take over at that point and 11 they really -- they work with higher level attorneys 12 in the Navy at the assistant secretary of Navy 13 level, and really that's when the determination is 14 made to do that. 15 MR. MAYER: For the foreseeable 16 future, it will come out of the Navy's cleanup fund. 17 CO-CHAIR HARE: Absolutely. That's 18 for sure. 19 MR. COLTER: I have a couple more 20 things on this. 21 CO-CHAIR HARE: Sure, go ahead. 22 MR. COLTER: These last two 23 presentations on Site 7, MNA, again, will be

and update the database. The letter to the RAB requesting continued participation. The one I'm -- the one that was on $m\gamma$ action item was the chronology of activities for Calverton. Dave handed out, everyone should have this packet of Microsoft project tables. This is each site that the Navy is working on. Most of which we talked tonight. Two or three pages per site that outlines our schedule. All the way out till remedy in place and long-term monitoring. This is the effort that we have to do once a year to establish our next year's budget expenditures. At the same time, we look at what we did and we cross that off the list. We look at what we based on our schedule, what we think we can accomplish in the upcoming fiscal year, which is now 2001. When those dates change, they obviously

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Division is allocated and account for it. This budget -- this schedule reflects some of the management decision to move certain projects' dollar value into the out years so we can keep a level

funding. It's not -- it basically balances the

affect all the dates in the out years. Our goal

with this, is to spend the money that Northern

25 budget.

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incorporated into the corrective measures study.

Site 6 will be incorporated into a remedial -- RCRA

facility investigation report. Both of those are due to the regulators, the draft documents, in December. So we are going to actually present this to the regulators November 8th, get their feel on it and then based on those discussions move toward issuing those reports in mid December.

What I would suggest there was a couple comments made, if we satisfactorly answered them here? That's great. If we didn't and you're not satisfied, I would send those to Sherry who can then forward them on and we'll make sure that they get incorporated somewhere into the document and we can discuss them at the next meeting. If we did a good job answering here, verbally, then that's great. We we don't need to do that.

That's it for the presentations as far as what we did in the summer and trying to bring you up to speed since February. I guess we are going to move into the action item review.

 ${\tt CO-CHAIR\ HARE:}\quad {\tt Debbie,\ do\ you\ have}$ any action items.

MR. COLTER: What I see here on our action item list, most of this is things for Debbie actually to do. Get information on new RAB members

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What really happens and what reality dictates is based on the speed of this committee and the regulators and the ability of the Navy to get the reports out as we scheduled. In the out years, it is possible to move some project up. If there's other folks that are lagging behind. Those type of decisions are made. Every year we do that type of analysis. Each line item here is basically part of the process that the Navy has to go through to reach, either issue a contract, reach a decision, put the report together, issue comments, respond to comments, there's time in here for regulatory review. So when you go through this, you'll see a lot of line items and that may answer one of your questions; Gee, why does it seem to take so long? There's a lot of steps involved.

What I did, and this is the other sheet you should have with all the dates. What I did is I pulled out the dates that we plan on submitting documents. I did this for the regulators to try to give them a sense of what the workload is going to look like from the Navy for this site. And I just want out to 2002 because everything other than that is conjecture at this point. As you can

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see Site 7, Site 1 and Site 2, all in December, we are planning on putting together and submitting putting together a report to the state and asking for comments. Again, this schedule will be determined whether we meet that date and whether the regulators meet an appropriate date for comments. All of this, we are not sure what's going to happen. This is our best guess right now. It does give you a sense of the workload that's coming up. As far as reports submitted. So there will be an increase between correspondence Navy RAB and regulators here in the foreseeable future.

Site 610-B and the Southern Area, all those dates up to the final RFI report that we have planned for 26 April, we are going to package that as one site. We are going to do Site 6, the Engine Test House, which is downgradient, and the Southern Area, which is further downgradient, that is going to be one investigation report. How each of those sites tracks after that, obviously there may be a different remedy for Site 6 than there may be for the Southern Area. Again, Site 10 may have a totally different remedy. So the CMSes and the decision documents, although they're shown here as

1 Proceedings

important is what we plan to do and when we plan to do it.

A MAN: The RAB in our discussions with the steering committee, we are trying to figure out how well you are doing from time to time. So one of the things to do that is to kind of compare what you said you were going to do with what you actually did. So I was wondering if you might able to do that for 2000 and then anticipate, based upon the budget and funding you did get for 2001, kind of layout the plans.

 $$\operatorname{MR}.$$ COLTER: For 2001 and 2000 and 2002, which are basically the closest fiscal years, this schedule represents the funding that is available to me.

A MAN: This should be real then.

MR. COLTER: It is real. We're only
tweaking it by whether we make our 16 December date
and whether the regulators make their 16 March date.
Whether -- if those are missed by a couple weeks, it
is still good. If we start missing by a couple
months, then we are not -- you're going to see
something different. But this budget right here
reflects the money that has been allocated to

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the same dates, they'll probably track in some type of different time frame. Again, out into the late 2001 and early 2002 time frame. It is conjecture at this point, but this will give the regulators and you guys a sense of what our workload looks like over the next year, year and a half, trying to reach decisions on a per site basis and implementing those decisions into remedy.

As we are doing remedy for Site 7, we will be making remedies at Site 2. Stabilizing bank at Site 1, making other decisions on Southern Areas. Doing a lot of work on concurrently on the off sites concurrent schedule. Addresses action item that the RAB wanted to see. If I were to update this in six months, it would probably look a little different. We could do that and will do that if that is deemed necessary by the RAB.

A MAN: I think it would be. And maybe also include the work that you've done. In those cases where you have actually done field operator systems, why not include that as well.

23 MR. COLTER: We could, it turns into. five or six pages per site. It gets a little. What we've done, we've done. I think what's more Proceedings

Calverton for 2001 and 2002.

A MAN: Good, okay.

MR. BRAYACK: Bill, one other thing, these Gant charts, action that has been done. This is current through approximately now.

I handed to Sherry actually a three page summary of all these so you could line them straight up and down. These are the full size EVS drawings.

MR. COLTER: That's all I had.

 $$\operatorname{MS}.$ COHEN: Action items, the two I have is to get information to Don related to the analysis.

MR. COLTER: For Site 7.

MS. COHEN: For Site 7.

The other one is Don might have to check on the mailing situation.

CO-CHAIR HARE: Yes.

 $\,$ A MAN: The first one we said we'd like to have at the RAB meeting, not just separate mailing to Don.

MS. COHEN: Right, okay.

CO-CHAIR HARE: That's going to be, that would be an agenda item.

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1	Proceedings	1 .	Progodings	87
2	MS. COHEN: Okay. Agenda item.	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	Proceedings MR. COLTER: I want a quick glance	
3	CO-CHAIR HARE: That would be an	3	to see if it is eligible.	
4	agenda item for the next meeting.	4	CO-CHAIR JOHNSON: I'll have Jean qet	
5	In that regard, are there other	5	in touch with you. She's done a lot of work on it.	
6	agenda items that anyone knows of at this time?	6	We've met twice on it. But she has everything.	
7	And you don't have to we don't have to decide	7	MR. COLTER: You all still have those	
8	exactly tonight but if there are some other agenda	8	books from that presentation, right? If you follow	
9	items. I want to in the future stick closely to the	9	that, the TAP handbook, you should be all right.	
10	published agendas. When we send out an agenda, I	10	CO-CHAIR JOHNSON: I do have one	
11	think we need to stick to that agenda when we come	11	other action item. I was wondering if it would be	
12	to the meeting so we stay focused and on track. But	12	possible for the Navy to write a thank you note to	
13	at any time between this meeting and I would think	13	Warren's lodge thanking him for use of the facility.	
14	30 days, 30 days prior to the next meeting, Debbie?	14	I know the steering committee will do that. They	
15	If you come up with agenda items that you think	15	have been kind enough to let us come in and use the	
16	would be viable, if you can get those to Debbie or	16	facility.	
17	to Jim, either one.	17	CO-CHAIR HARE: Absolutely. They	
18	MR. COLTER: We are trying real hard	18	have been very good about letting us use it.	
19	to.	19	CO-CHAIR JOHNSON: We appreciate it.	
20	CO-CHAIR HARE: Get those items on	20	CO-CHAIR HARE: Very good.	
21	the agenda.	21	CO-CHAIR HARE: I'll be glad to do	
22	MR. COLTER: We are trying to	22	that.	
23	set get the RAB invite letter out and set the	23	CO-CHAIR JOHNSON: Great.	
24	agenda, 30, three to four weeks before. That way we	24	MS. HARE: Are there any other action	•
25	know what we are publishing in the paper and things	25	items we missed, maybe?	
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2	like that If they gome in later like that they're	1 2	-	
2	like that. If they come in later like that, they're	2	If not.	
3	hard to incorporate.	3	If not. A MAN: What is the proper procedure	
3 4	hard to incorporate. CO-CHAIR JOHNSON: Let's put a	3 4	If not. A MAN: What is the proper procedure for asking rhetorical questions, here.	
3 4 5	hard to incorporate. CO-CHAIR JOHNSON: Let's put a discussion on the cap proposal.	3 4 5	If not. A MAN: What is the proper procedure for asking rhetorical questions, here. CO-CHAIR HARE: Rhetorical questions.	
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3 4 5 6 7	hard to incorporate. CO-CHAIR JOHNSON: Let's put a discussion on the cap proposal. MR. COLTER: Is Jean going to submit that between now and then or do you want to present	3 4 5 6 7	If not. A MAN: What is the proper procedure for asking rhetorical questions, here. CO-CHAIR HARE: Rhetorical questions. CO-CHAIR JOHNSON: Just shout them out.	
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89 9. 1 Proceedings Proceedings 2 CO-CHAIR HARE: I thought you were. 2 for the most part, anyway, the areas that you may be 3 A MAN: My question is, TCA acts 3 speaking of. 4 like a gas in most instances so a lot of that stuff 4 A MAN: Okay. 5 5 is going to expand, as I stated before, into the CO-CHAIR HARE: If you wanted to look 6 interstitial area between particles, hang there and 6 at specifics, I guess, you could go back to those 7 7 degrade. It's not particularly water soluble, it's documents that were generated during that 8 not going to end up down below for the most part. 8 investigation of that portion of the property. 9 9 What bothers me is two things: A MAN: To your memory, do those 10 10 One is there seems to be a huge documents have a lot of TCA? TCA, chromium, copper, 11 amount of TCA unaccounted for. TCA was used to 11 all those things. 12 12 remove organic contamination from metal surfaces. CO-CHAIRMAN HARE: Couldn't even tell 13 In this instance it seems to be no accounting for 13 you right now off the top of my head. 14 the organics, the fuels, the hydraulic oils, the 14 All those documents I assume, Jim, 15 15 heavier weight lubricating oils that were used to are still in the library. Andrea is shaking her 16 remove. Plus it is known to pick up metals like 16 head, Andrea Lohneiss. I would recommend that you 17 17 go to the public library and take a look at those cadmium, chromium, off the metallic surfaces of the 18 18 parts that came in. documents. 19 19 It occurs to me that these A MAN: Okay. 20 20 contaminants have to be some place. CO-CHAIR HARE: I don't think that is 21 21 CO-CHAIR HARE: Are you talking about something I'm going to go back and look at at this 22 22 the areas that we are looking at now or are you late date, because that area is closed, and we 23 23 talking. deeded the property over. 24 24 A MAN: In general. MR. COLTER: Rest assured in the 25 25 CO-CHAIR HARE: The areas of the transfer of property, that we don't claim to give 90 1 1 Proceedings Proceedings 2 2 property that have already been cleaned up. you a money back satisfaction quarantee that we 3 3 A MAN: I'm talking about. found every drop of contamination. 4 4 CO-CHAIR HARE: Are you talking about CO-CHAIR HARE: Nobody can do that 5 the operational areas of the facility. 5 with any property. 6 6 A MAN: I'm just talking about the MR. COLTER: Our programs aren't 7 7 whole shooting match. funded and set up to do that. 8 8 CO-CHAIR HARE: Because the vast. I'll answer your what if question. 9 9 A MAN: I apologize for coming in at If during the town's redevelopment of that property, 10 10 this late date and asking these questions. they discovered areas that the Navy or Northrop 11 CO-CHAIR HARE: We probably should 11 Grumman may have missed while they're redeveloping 12 talk off-line maybe a little bit. If the RAB wants 12 it, the federal law that governs property transfer 13 to go ahead and close the meeting we could continue 13 and there is even a covenant in the deed that says 14 to talk about this. 14 that the Navy comes back on and addresses that 15 CO-CHAIR JOHNSON: I don't mind 15 situation. We have to deal with the town as far as 16 16 hearing it. property access, but we don't have to get formal 17 CO-CHAIR HARE: What I was going to 17 property access, because we already have that by 18 18 say if you're talking about the original areas, them signing the deed and covenants that says if you 19 those areas, all of that was addressed. You know, 19 find something, you have to give us access to come 20 20 the entire facility, before we could pass a deed to back on and address it. So that's your biggest what 21 21 the Town of Riverhead, we had to go through a if, and that is the best guarantee the government 22 complete investigation. Northrop Grumman at that 22 can give you. It is federal law. 23 23 time was going through that investigation with us. Sure if somebody is developing the 24 So those areas have already been addressed with 24 property and finds something, I'm sure Andrea will

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be on the phone.

those operational areas, which I think is probably

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1	Proceedings	1	Proceedings	,
2	CO-CHAIRMAN HARE: I will tell you	2	A MAN: It wasn't all thrown on the	
3	this I know there are other people have come to	3	ground.	
4	me on the side and they have said we think that	4	You're thinking of Republic.	
5	North just skipped out and didn't do their share.	5	Republic was very irresponsible. I recognize you're	
6	I can tell you this: I have more cooperation out	6	saying, when you're comparing Republic and you're	
7	of this contractor and more voluntary effort out of	7	comparing Calverton. The mentality at Grumman and	
8	this contractor, a willingness to step up and	8	the mentality at Republic is night and day. I'm	
9	participate in the cleanup program. I have some	9	talking about leadership of both companies.	
10	contractors that one, that just walked off the	10	Republic was very irresponsible.	
11	property and said see me in court. And I have had	11	A MAN: I would have to agree with	
12	others say, no, we will not participate during the	12	yóu.	
13	cleanup phase. Whatever you come up with after it	13	A MAN: I think this gentleman can	
14	is all over, then you can come talk to us about	14	back me up with the mentality at Grumman.	
15	that.	15	A MAN: I had occasion to visit the	
16	A MAN: My question was never	16	paint shop on rare occasions when I worked there, it	
17	intended to be a disparaging remark.	17	was a neat, clean operation. I have to admit.	
18	CO-CHAIR HARE: I'm sure it is not.	18	A MAN: It was against the law.	
19	A MAN: My question is this is such	19	A MAN: No, it wasn't against the	
20	a complicated hydrogeological, area that some place	20	law. I think Grumman had a more serious problem	
21	all of those tens of scores of years of dumping	21	with their fuel. That is where they were lax. I	
22	unregulated into the ground has got to be someplace.	22	can't address it because I didn't witness any of	
23	MR. COLTER: If that indeed happen.	23	that firsthand.	
24	Grumman did have records as far as your process.	24	A MAN: That was accidental more	
. 25	CO-CHAIR HARE: I don't know that	25	than intentional.	
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1	Proceedings	1	Proceedings	96
2	Proceedings you're ever going to be able to be 100 percent sure	1	Proceedings A MAN: My question was never meant	96
	Proceedings you're ever going to be able to be 100 percent sure that you've ever addressed everything. That is true	1	A MAN: My question was never meant to be	96
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                              Proceedings
                       Closing remarks. I'm going to thank
 3
        everybody for coming. You might be able to catch
        some of the ball game.
                       Just by way of saying that if we
 6
        follow the quarterly base for the next meeting,
 7
        November, December, January, it is probably going to
 8
        be somewhere I would think the latter part of
 9
        January and we'll track to that. And then we can
10
        let people know exact dates.
11
                       (Time noted: 9:20 p.m.)
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25
                        CERTIFICATE
        STATE OF NEW YORK )
        COUNTY OF SUFFOLK )
                    I, JENNIFER MAUE, a Registered
        Professional Reporter, do hereby certify that the
        foregoing Matter, taken at the time and place
10
        aforesaid, is a true and correct transcription of my
11
12
                      I further certify that I am neither
        counsel for nor related to any party to said action,
1.3
        nor in any wise interested in the result or outcome
15
                     IN WITNESS WHEREOF, I have hereunto set
16
        my hand this 11th day of February, 2001.
18
19
20
21
22
                            JENNIFER MAUE
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