

In the Matter Of:

RAB MEETING

PUBLIC MEETING

February 21, 2024



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WURTSMITH RESTORATION
ADVISORY BOARD (RAB) MEETING

Oscoda United Methodist Church

120 West Dwight Street, Oscoda, Michigan 48750

Wednesday, February 21, 2024, 5:01 p.m.

RECORDED BY:

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1 RAB CO-CHAIRS: Mark Henry
Steven Willis, Air Force
2
3 Local Government Denise Bryan, Local Health Department
Stakeholder RAB Tim Cummings, Oscoda Township
4 Members Present: Chelsea Gary, MDHHS
Amy Handley, EGLE
5 Michael Munson, OWAA
Eric Strayer, AuSable Township
6 Jessica Stuntebeck, USDA Forest Service
(via videoconference)
7
8 Community RAB Dave Carmona
Members Present: William Gaines
Kyle Jones
9 Arnie Leriche
Scott Lingo
10 Greg Schulz
Daniel Stock (via videoconference)
11 Josh Sutton
Rex Vaughn
12 David Winn
Cathy Wusterbarth
13
14 Also Present In Person: Amy Rauser, Jessie Howard, Roger Walton,
Lynn Winn, Andrea Keathley, Barry
15 Nelson, Cory Tackett, Tammy Kline, Mary
Lipec, Bill Palmer, Jay Mullett, John
16 Bradley, Jeremiah Morse, Robert Delaney,
Paula Bond, Darlene Abbott, Ben Wiese,
Marilyn Overholt, Fred Overholt
17
18 Also Present Virtually: Dorin Bogdan, Celeste Holtz, Hannah
Theodorovich, Matt Baltusis, Summer Cox,
19 Greg Gangnuss, Sharon Vriesenga, Grace
Poudrier, Theresa Olechiw, Sharon
Vaughn, Tony Spaniola, Jenny Haglund,
20 Megan Berry, Lee Major, Charles Bauer,
Morgan Gullett, Teresa Maria Homs, Tess
21 Nelkie, Mark Weegar, Sydney Ruhala,
Krystal Gurnell, Estela Fuentes, Tisha
22 Lane, Thomas Ponder
Paula Bond
23 Celeste Holtz (virtual)
Craig Johnson (virtual)
24
25

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Oscoda, Michigan

Wednesday, February 21, 2024 - 5:01 p.m.

MS. JESSIE HOWARD: Hello, everyone. Welcome to the February 2024 Restoration Advisory Board public meeting. I'm Jessie Howard, your facilitator. Irving Entertainment is documenting and livestreaming tonight's meeting, and we do have our court reporter, Marcy, with us this evening as well, who will also be documenting. It's why we see the extra microphones. And speaking of that, I would like to begin with a reminder to the RAB members to please speak right into that round end piece of the microphone so that we can all hear you and everybody who joins us virtually can as well. So now I would like to invite our co-chairs to give their opening remarks. Mr. Willis?

MR. STEVE WILLIS: Yeah. Thank you everyone for coming tonight. I'll apologize up front for my voice. I've been finding -- fighting some sinus problems. I was telling people yesterday I was doing my Barry White impersonations. But, again, welcome. It looks like we've got a pretty good turnout tonight, so it's good to see most of the RAB members and from the community. We've got a lot of people out. Welcome and thank you.

MR. MARK HENRY: Mark Henry, co-chair. I'd like to thank everyone as Steve did for showing up here. There's a lot of new data that has been presented in the posters in

1 the back room back there. If you're familiar with those
2 posters from the past, they've been updated significantly
3 with new RI data, so I would urge you to take a look at the
4 most current maps just to see the extent of contamination
5 and ask questions, please.

6 MR. STEVE WILLIS: Just to piggyback on that, all
7 of those maps are available on our RAB website. So if you
8 don't get a chance to look at them tonight, they're
9 available. You can look at them on -- on the -- your
10 computer and at your leisure so they're all there.

11 MS. JESSIE HOWARD: Okay. Next I will quickly
12 take attendance of the RAB members for the record. Our RAB
13 coordinator, Amy, will respond for anyone who is joining us
14 virtually. I'll begin with the government RAB. Steven
15 Willis with the U.S. Air Force?

16 MR. STEVE WILLIS: Present.

17 MS. JESSIE HOWARD: Tim Cummings, Oscoda Township?

18 MR. TIM CUMMINGS: Here.

19 MS. JESSIE HOWARD: Eric Strayer, Au Sable
20 Township? No? Amy Handley from EGLE?

21 MS. AMY HANDLEY: Here.

22 MS. JESSIE HOWARD: Michael Munson from OWAA?

23 MR. MICHAEL MUNSON: Here.

24 MS. JESSIE HOWARD: Denise Bryan with the local
25 health department?

1 MS. DENISE BRYAN: Here.

2 MS. JESSIE HOWARD: And Chelsea Gray (sic) with
3 the State Department of Public Health?

4 MS. CHELSEA GARY: Here.

5 MS. JESSIE HOWARD: Okay. And Jessie Stuntebeck
6 with the USDA Forest Service?

7 MS. AMY RAUSER: Present virtually.

8 MS. JESSIE HOWARD: And we also have Ben Wiese
9 with us as well. And for the Community RAB, Mark Henry?

10 MR. MARK HENRY: Here.

11 MS. JESSIE HOWARD: Dave Carmona?

12 MR. DAVE CARMONA: Present.

13 MS. JESSIE HOWARD: Bill Gaines?

14 MR. BILL GAINES: Here.

15 MS. JESSIE HOWARD: Kyle Jones?

16 MR. KYLE JONES: Here.

17 MS. JESSIE HOWARD: Arnie Leriche?

18 MR. ARNIE LERICHE: Here.

19 MS. JESSIE HOWARD: Scott Lingo?

20 MR. SCOTT LINGO: Present.

21 MS. JESSIE HOWARD: Greg Schulz?

22 MR. GREG SCHULZ: Here.

23 MS. JESSIE HOWARD: Daniel Stock? Josh Sutton?

24 MR. JOSH SUTTON: Here.

25 MS. JESSIE HOWARD: Rex Vaughn?

1 MR. REX VAUGHN: Present.

2 MS. JESSIE HOWARD: David Winn?

3 MR. DAVID WINN: Here.

4 MS. JESSIE HOWARD: And Cathy Wusterbarth?

5 MS. CATHY WUSTERBARTH: Here.

6 MS. AMY RAUSER: Daniel Stock is present
7 virtually.

8 MS. JESSIE HOWARD: Thank you. All right. Now I
9 will quickly review tonight's agenda. Right now we are in
10 the Welcome and Introductions. Next we will have RAB member
11 updates followed by the RAB business update, then we will
12 hear the PFAS RI and IRA update followed by the vapor
13 intrusion RI update, then we will have RAB member questions
14 followed by public comment and the conclusion of our
15 evening. And at this time are there any governmental
16 officials that are joining us this evening who would like to
17 introduce themselves either in person or virtually? Yes.

18 MR. TIM CUMMINGS: All right. This is Tim
19 Cummings and this is just an update from Oscoda Township,
20 that I understand this morning the Oscoda Township
21 superintendent and supervisor met with the Air Force and
22 there was a discussion on storm sewer maintenance. There
23 was also a discussion point about the 2018 main storm sewer
24 line maintenance report. There's an additional point about
25 getting a quote for pipe inspection for the F&V city sewer.

1 Additionally, soil and drying beds testing clean. I think
2 that was a -- a results point; is that correct?

3 MR. STEVE WILLIS: Yes.

4 MR. TIM CUMMINGS: That's right. And then EGLE is
5 still inquiring about resolved -- pardon me -- let me read
6 this again. EGLE still inquiring about the resolve on a
7 plugged, contaminated sewer line. Another point was looking
8 at cleaning contamination out of plugged line owned by the
9 Oscoda Wurtsmith Air -- Airport Authority. And the
10 quarterly testing report was done by F&V and needs to be
11 reviewed. A pilot test, 2024-2025 foam fractionation on
12 base was another -- last topic. So these were the topics
13 that were discussed. I presume, Steve, you'll be able to go
14 into more detail than me.

15 MR. STEVE WILLIS: Yeah. Those were discussions
16 with the township. I guess I don't have a whole lot to
17 elaborate on at this point.

18 MR. TIM CUMMINGS: Okay.

19 (RAB Member updates at 5:07 p.m.)

20 MS. JESSIE HOWARD: Okay. Next we have some RAB
21 member updates and we will begin with our co-chair. Mr.
22 Willis?

23 MR. STEVE WILLIS: Can we go to the next slide?

24 MS. JESSIE HOWARD: Fred, the next slide.

25 MR. STEVE WILLIS: There we go. So as we talked

1 in the last RAB meeting we were going to do critical process
2 analysis for four sites here at Wurtsmith. We did that in
3 conjunction with EGLE and San Antonio. There was a site
4 visit here and Mark Henry and Bob Delaney were able to
5 participate in that, provide some valuable input to the CPA
6 team. Based on the -- the evaluation that was done, we did
7 brief the Air Force management, we briefed EGLE's
8 management, we briefed Mark and Bob and got their input and
9 then we briefed the RAB and the community early this year.
10 So that information is out and available.

11 We are moving forward with IRAs for the -- it's
12 going to be a joint IRA for both DRMO and LF030/031. We do
13 have funding for that for this year so in, we're in the
14 process of awarding a contract to finalize the design and
15 actually construct and implement that IRA. We're also
16 continuing -- we've got a budget request for funding for
17 next year for IRAs at both the Three Pipes Ditch and the
18 wastewater treatment plant and we're in the meantime
19 continuing to evaluate both of the sites and the
20 recommendations from the CPA team.

21 We did have a tech session yesterday. We -- we
22 ended up only talking about one topic, but the WSP, our O&M
23 contractor that operates our systems provided a follow-on
24 presentation to last November's RAB meeting with additional
25 system performance information for the FT02 Clark's Marsh

1 IRA. So we spent the full three hours of the tech session
2 yesterday talking through that -- that system and
3 performance.

4 We were supposed to have a presentation during
5 that tech session from -- from the Water Resources Division
6 of EGLE, but the person that was going to do the
7 presentation was sick and was not able to make it so we'll
8 reschedule that for a future tech session. But his
9 presentation was going to be an overview of SRDs and how
10 EGLE does those. It was not intended to be a Wurtsmith
11 specific SRD presentation, but just to give you an
12 understanding of how they put SRDs together, what goes into
13 developing one and, you know, the general approach for them.

14 MR. KYLE JONES: Steve? Steve? You might say
15 what a SRD is.

16 MR. STEVE WILLIS: Oh, I'm sorry. SRD is a
17 substantive requirements document. EGLE issues those to
18 various parties. It's really -- it's almost like a permit
19 that governs -- in our case governs the discharge from our
20 treatment systems. Thank you, Kyle. Next slide.

21 And as Paula will talk about later this evening,
22 we're coming to the close of the RI fieldwork effort for the
23 PFAS remedial investigation. We are going to have data gaps
24 at the conclusion of that. We had committed to doing some
25 investigation on the east side of Van Etten Lake. We had

1 some meet -- meetings with EGLE late last year and we were
2 planning to do some soil sampling under foam deposition
3 areas that could be confirmed on the other side of the lake.
4 EGLE -- EGLE indicated that they wanted that sampling done
5 as incremental sampling instead of discrete sampling and
6 that was not in our contract with our contractor and we were
7 at the point where we couldn't -- couldn't implement that
8 under this contract. So we'll revisit that under a
9 follow-on data gap investigation.

10 Our plan is to meet with EGLE and go through any
11 data gaps that they perceive, any that we've identified, and
12 then kind of plan that next contract to do the follow-on
13 data gap investigation that'll feed into our feasibility
14 study to evaluate and identify -- or to evaluate long-term
15 remedies for these sites and then move forward with that.

16 For those that have seen our posters in the back
17 over the last year or so, if you look at them today they --
18 you'll notice that they are, in my opinion and I think in
19 most everyone's, a vast improvement. We're now able to show
20 the aerial background. For awhile there was some DOD
21 guidance. I guess it actually stemmed even from the
22 National Defense Authorization Act. There was some
23 different interpretations of what could and couldn't be
24 provided and I'll talk a little bit more on the next couple
25 slides about data sharing. But as a result of that, we took

1 the background -- aerial background off of all of our maps
2 so it made it difficult to -- to really look at the -- the
3 results and figure out where the contamination was and was
4 not. But we put the aerals back on and -- and so I think
5 everyone will agree that they're -- they're a big
6 improvement in understanding what's going on out here.

7 And I also did include for -- for everyone's
8 benefit for future planning the next -- the rest of the RAB
9 meetings for this calendar year on the slide. They're
10 typically the third Wednesday of February, May, August and
11 November. I know we -- for the -- for this meeting we
12 delayed it a week because last week would have been the --
13 the third Wednesday but it was Valentine's Day and we talked
14 among ourselves and decided it probably would be better for
15 (inaudible) to defer it a week, so -- and I know last year
16 we deferred the November meeting. Actually, we moved it up
17 a week, I think, because of hunting season. This year the
18 November meeting will not conflict with the start of hunting
19 season so I think we're good there.

20 MR. MARK HENRY: One additional thing, along with
21 those dates that are mentioned on the slide, those are all
22 on Wednesdays. On the Tuesday immediately before that there
23 will be a in-depth technical meeting open to the public for
24 those who are interested in the nuts and bolts of what's
25 going on.

1 MR. STEVE WILLIS: And those -- unlike the RAB
2 meeting, those technical sessions are very free form. We
3 don't -- we don't come in with an agenda. This time was
4 probably the most structured in terms of us coming with
5 presentations. But typically I reach out to the -- to Mark
6 Henry through -- and through him to the community for topics
7 of interest. We get those ahead of time, show up with maps
8 and tables and charts and whatever we need to talk about it.
9 But it's a very free form discussion, so people are more
10 than welcome to come listen. If you got questions, if you
11 wanted something that isn't necessarily covered in a RAB
12 meeting but you wanted to ask about, you know, "How does
13 this affect my house" or whatever, you can come to those
14 meetings and talk about it. They're very informal.

15 MR. MARK HENRY: But useful.

16 MR. STEVE WILLIS: Yeah. Absolutely.

17 MS. CATHY WUSTERBARTH: Can we ask questions now
18 of -- of some of the things that you just mentioned?

19 MR. STEVE WILLIS: Sure.

20 MS. CATHY WUSTERBARTH: I would do that.

21 MR. STEVE WILLIS: Sure.

22 MS. CATHY WUSTERBARTH: Okay. If you go back
23 to -- this is Cathy Wusterbarth. Looking at the 2025 budget
24 request for the IRAs for Three Pipes and wastewater
25 treatment plant, we have numbers that -- that we can help

1 you work on in terms of congress and those sorts of requests
2 on our end.

3 MR. STEVE WILLIS: Yeah, you can always tell them
4 we need money.

5 MS. CATHY WUSTERBARTH: Okay. If I could have
6 some specifics, that's what we're looking for.

7 MR. STEVE WILLIS: Okay; okay. Yeah, I don't have
8 the number off the top of my, but

9 MS. CATHY WUSTERBARTH: Okay. If, if we could get
10 that before the next RAB meeting so that we can work on that
11 on our end. And then the other question I have is about the
12 sampling on the east side of Van Etten Lake. You had used a
13 couple of terms, "incremental sampling" I think versus --

14 MR. STEVE WILLIS: Discrete, right.

15 MS. CATHY WUSTERBARTH: -- "discrete." Okay. And
16 is there a value? You know, what -- what's the difference
17 between the two and -- and what, you know

18 MR. STEVE WILLIS: So I sort of, sort of stole
19 some of Amy's thunder. I think she's actually going to talk
20 about that as well.

21 MS. CATHY WUSTERBARTH: Is she? Okay.

22 MR. STEVE WILLIS: So, yeah. So I'll let her --

23 MS. CATHY WUSTERBARTH: Okay.

24 MR. STEVE WILLIS: -- in -- in her presentation
25 she'll -- she'll explain the difference between the two.

1 MS. CATHY WUSTERBARTH: Okay. Thank you.

2 MR. STEVE WILLIS: Anything else? We can go to
3 the next slide. So as I mentioned a minute ago, the next
4 couple we'll talk about data sharing, what we can -- can
5 share freely with -- with both the State regulators and the
6 public and what -- what data is considered personally
7 identifiable information and is covered under the Privacy
8 Act and that we will not share.

9 So any locations of samples on privately owned
10 residential drinking water wells, we won't share the results
11 of that sampling without the owner's consent. And the only
12 location data we would share is the lat- -- latitude and
13 longitude. We won't share your name, your address or any of
14 that information in any of our reports. So if -- if we --
15 if we seek you out as a potential location for sampling
16 drinking water -- and it'll be spelled out in the agreement
17 with you -- but we would not share your name or address in
18 any of the documentation that we produce. It'll all be
19 longitude/latitude only and then sampling results.

20 And if we don't have your permission to share all
21 of that, then we'll take that accordingly. And that data
22 sharing really applies to -- to private drinking water
23 information. Groundwater soil and sediment sampling show on
24 our maps already. Next slide.

25 And so many of you may have received our

1 questionnaire that went out. It was a drinking water
2 questionnaire asking who had a private drinking water well
3 on your property. I think we sent out -- Paula, over 200 of
4 them?

5 MS. PAULA BOND: Oh, no, there was -- I have --
6 it's likely responded (crosstalk).

7 MR. STEVE WILLIS: Okay; okay. Yeah, so we -- we
8 sent out quite a few. We've got a fair number of responses
9 back, but we're trying to evaluate private wells that are
10 out there. Now that we've delineated the extent of
11 contamination in groundwater, we're trying to determine who
12 in the community might be impacted with a private drinking
13 water well and then work with you to sample it and if -- if
14 you are impacted above the established criteria, then we'll
15 take action appropriately.

16 MR. MARK HENRY: Can I interject a question? This
17 is Mark Henry.

18 MR. STEVE WILLIS: Yes, please.

19 MR. MARK HENRY: My understanding is -- is that
20 the State of Michigan DHHS has been sampling residential
21 wells out in that area. And of the possible wells in the --
22 in the what's called the zone of potential impact, according
23 to Puneet before he left, the State was able to sample
24 approximately two-thirds of the available wells out there
25 that might be impacted. Is the Air Force looking to fill in

1 a data gap, because the Air Force has the State data, by
2 looking at the other third of people that the State was not
3 able to convince?

4 MR. STEVE WILLIS: Yes; absolutely. We do not
5 want to duplicate their efforts. We want new data. So,
6 yes, we've -- we've worked with them to get their latest set
7 of data and -- and are using that along with all the survey
8 responses we get back to pinpoint where we're going to
9 sample.

10 MR. MARK HENRY: Thank you.

11 MR. STEVE WILLIS: Yes.

12 MS. AMY HANDLEY: Steve, I had a -- a question.
13 It says on here that, "At present, the locations of past or
14 future private sampling will not be shared to EGLE." I
15 thought we had cleared that up with doing a new form so that
16 we would be able to know what you guys get.

17 MR. STEVE WILLIS: So that would only apply if we
18 don't have consent from the property owner.

19 MS. AMY HANDLEY: Okay.

20 MR. STEVE WILLIS: And so -- and so, yeah. Yeah,
21 if we -- if we don't have their consent, then we wouldn't be
22 able to share that. But we'll try and go back to those
23 and -- and potentially get -- and, and there really
24 aren't -- for Wurtsmith, there aren't -- this policy was
25 written broader than Wurtsmith. But we haven't done

1 drinking water sampling here in -- what? -- eight years I
2 think. So, yeah, we don't have any recent data that would
3 apply to that.

4 MS. AMY HANDLEY: Okay. Thank you.

5 MR. STEVE WILLIS: And next slide. I think turn
6 it over to Amy.

7 MS. JESSIE HOWARD: Does the Community have an
8 update for us?

9 (Community RAB Update 5:20 p.m.)

10 MR. MARK HENRY: Let's see. The Community RAB has
11 had a couple of internal meetings, as well as action item
12 meetings with the Air Force and I don't know if the State
13 was there or not. I don't think so. We've also had some
14 discussions about the remedy that is being proposed or the
15 IRA, the -- for the Alert Aircraft Area. Interim remedial
16 actions are good. We have been asking for much larger
17 coverage of the proposed interim remedial action, the IRA,
18 and I'm hoping to hear this evening that -- some more
19 information on that. Outside of that, I guess that's about
20 it.

21 MS. JESSIE HOWARD: All right. And then next I
22 believe that Amy Handley from EGLE also has a update for us.

23 MS. AMY HANDLEY: Yes. Good evening, everyone.
24 Just some things that we've been up to recently. We
25 participated in the November BCT meeting which talked about

1 the VI immediate work plan, work that's been occurring.
2 They started that in August and we worked the first quarter
3 data, which is going to be presented this evening. And then
4 we also had the January BCT where we covered the pump and
5 treat systems and reviewed their performance and monitoring
6 well maintenance plans. We've been having regular meetings
7 with the Air Force to go over all of their field activities
8 and the progress that they've been making for all the field
9 work as well as what monitoring wells they're putting in and
10 kind of discussing the locations of where they're putting
11 those and the screen depths.

12 We had our CPA out-brief meeting in December and
13 then I believe the community's was right after the new year
14 in January. We've been reviewing a whole lot of vapor pin
15 data from that first quarter and we just recently were able
16 to kind of walk through the second quarter data with the Air
17 Force and our contractor virtually, because that data hasn't
18 been finalized yet. And then we've been reviewing some
19 documents and providing some backcheck comments. We have
20 the BECOS long-term monitoring reports, the pump and treat
21 system report and then also the vapor intrusion quality
22 assurance plan. We've provided backcheck comments on all of
23 those.

24 And we also reviewed the SS072 revised risk
25 assessment and provided additional comments to the Air Force

1 on that. And then one additional note that I didn't have on
2 here was that myself and a few other members of RRD have
3 been meeting with members of WRD in the AG's office to
4 develop that SRD for the Aircraft Alert Area. And we were
5 actually just able to submit that draft document to the Air
6 Force last week and we're anticipating being able to send
7 the ARARs list within this next week, which ARARs is the
8 Applicable or Relevant and Appropriate Requirements. I
9 always have to write it down because I never remember the
10 order. But that's just some of the stuff we've been up to
11 recently.

12 And then for things that we have upcoming, we have
13 some data to be continuing -- continuing to review the data
14 for the RI work that was completed last year and into this
15 year. As it comes in we kind of sit down and talk about it
16 and actually have meetings with Air Force and our contractor
17 to go over that. And then we're also planning to do a large
18 data dump for all of this data so that we can have it
19 internally for ourselves as well to be able to review it and
20 implement it in certain ways for our databases.

21 We have a BCT meeting coming up in March, and then
22 we are continuing to have discussions for the vapor
23 intrusion work with DHHS and with the Air Force. And as
24 Steve had mentioned, we are going to be working pretty close
25 with the Air Force for the beginning stages of that work for

1 the east side of Van Etten Lake and kind of the approach for
2 all of that.

3 To kind of talk to what you had asked about,
4 Cathy, with the incremental sampling. So it's kind of a --
5 I don't want to say newer, but it's kind of a more recent
6 choice for EGLE to approach doing incremental sampling. We
7 feel that it provides better data and more repeatable data
8 for us. Got to make sure I read my notes correctly here.
9 Yes, better data. And we are able to make better decisions
10 with the data that we're receiving from this. I think if
11 you want to go into more of, like, the technical aspects of
12 how they are different, I'll have to maybe phone a friend
13 for that. But it's -- it's what EGLE feels is the better
14 approach for doing soil sampling is applying that method
15 instead. Is there any questions about it? Because I'm --
16 I'm sure that someone probably has one.

17 MR. DAVID WINN: I have -- I have several
18 questions, but go ahead and finish your presentation.

19 MS. AMY HANDLEY: And then the rest of what I have
20 on here is just the additional documents that we're planning
21 to have coming in the next couple months that we're going to
22 have to review. A couple of different ones for the Aircraft
23 Alert Area, five-year review, and some different quality
24 assurance plans.

25 MR. DAVID WINN: Okay. Can I ask a question now?

1 MS. AMY HANDLEY: Go ahead.

2 MR. DAVID WINN: Okay. Dave Winn, a couple
3 questions. BCT meeting minutes for November and also
4 January.

5 MS. AMY HANDLEY: Yes. The November minutes are
6 about to be posted. I need to submit those. And then we'll
7 see January's --

8 MR. DAVID WINN: On the MPART web site?

9 MS. AMY HANDLEY: Yes. And then the January ones
10 are coming. We're just waiting for those ones to be
11 finalized and sent to us.

12 MR. DAVID WINN: Can I ask a question to Air
13 Force? I asked about a year and a half ago why we couldn't
14 have one slide on this summary identifying the highlights of
15 the BCT meeting minutes. I'm still waiting for that slide.
16 Is there any reason why we can't have that slide on this
17 package?

18 MR. STEVE WILLIS: No. I'll do that. That's -- I
19 dropped the ball on that one, Dave.

20 MR. DAVID WINN: Okay.

21 MR. STEVE WILLIS: I'll get that for you.

22 MR. DAVID WINN: Please. I mean, it'd be good for
23 not only the community and everybody else to know because
24 we -- we're not invit- -- nobody's invited to that meeting.
25 It'd be nice to know what's going on at that meeting, at

1 least to have some highlights as to what's going on. Second
2 question I have is I want to talk real briefly about this
3 continued approach for Van Etten La- -- east side of Van
4 Etten Lake. As I understand right now there's going to be a
5 separate -- and correct me if I'm wrong -- there's going to
6 be a separate work plan developed for the east side of Van
7 Etten Lake; is that true?

8 MR. STEVE WILLIS: Yes.

9 MR. DAVID WINN: Okay.

10 MR. STEVE WILLIS: And -- and it'll cover more
11 than just the east side of Van Etten Lake.

12 MR. DAVID WINN: Okay. Then -- then I'm going
13 to -- then I'm going to ask a couple of different questions.
14 First off, we've been talking about the east side of Van
15 Etten Lake for over five years, even before you, when Matt
16 Mars and everybody else was still around. Okay? And we're
17 still going to be talking about Van Etten Lake. On the RI
18 addendum, the RI addendum had a complete breakdown of
19 everything from the testing, the sampling, the transducers,
20 the Battelle signature analysis, the septic influence
21 study -- okay -- and other than these transducers and the
22 piezometers, I haven't seen anything. Okay?

23 Now we're going to take and we're going to go and
24 we're going to create another work plan when the originally
25 the RI addendum, everybody's saying, "Well, the RI's

1 complete." In my opinion, the RI is not complete. The east
2 side of Van Etten Lake -- okay -- as I understand -- and,
3 Steve, I'm referring to an e-mail that you sent to Mark on
4 February 5th. The east -- the east side of Van Etten Lake
5 will be done as part of the FS part of the program,
6 feasibility study, which is going to be the first quarter of
7 next year. Am I correct in saying that?

8 MR. STEVE WILLIS: So it'll -- it'll be part of
9 the data gap investigation that'll feed the feasibility
10 study.

11 MR. DAVID WINN: Which is -- which starts in 2025;
12 correct?

13 MR. STEVE WILLIS: Yes. It'll probably start
14 about that time.

15 MR. DAVID WINN: Okay. So here we go, another
16 year is going to go by and nothing is going to be done with
17 the east side of Van Etten Lake. So when you sit -- when
18 people sit here and talk about the RI being complete, the RI
19 and RI addendum was not complete in my opinion. So I'm --
20 I'm -- I'm not satisfied with -- with this -- with this
21 plan. If you're going to generate a new work plan -- all
22 right -- you haven't completed the old work plan, so we
23 complete a new work plan, all you're doing is kicking the
24 can down the road. Plain and simple.

25 So I'm -- I'm really disappointed in the fact that

1 we've been talking about the east side of Van Etten Lake for
2 over five years and now we're going to be talking about it
3 for on the sixth year as well. To me that's wrong. Thank
4 you.

5 MR. KYLE JONES: Excuse me. Amy, I've -- I've got
6 a question or two. This is Kyle Jones with Community RAB.
7 You -- you nicely went through a list of the various
8 documents and meetings in which you -- that EGLE provided
9 comments to the Air Force regarding their -- their proposed
10 documents. Does EGLE keep a record of whether yes or no the
11 Air Force accepts EGLE's comments?

12 MS. AMY HANDLEY: So we do go back and forth with
13 the Air Force. We'll provide comments, the Air Force will
14 respond to them. If we feel there's additional discussion
15 that's needed, we'll have those comments, we'll add
16 additional comments to that or more if it's resolved, or
17 we'll have meetings with the Air Force to find a resolution
18 for ones that we feel need additional discussion. But all
19 of those are then recorded and then actually put into the
20 final document.

21 MR. KYLE JONES: Are there times when Air Force
22 just says flat no and EGLE thinks it ought to be another
23 way?

24 MS. AMY HANDLEY: So that does happen and then we
25 can go down the path for a dispute resolution or find ways

1 to resolve it under additional investigation that might
2 better apply somewhere else. It does happen. We really try
3 to work to have that not be the case, but it does.

4 MR. KYLE JONES: And you just indicated if it
5 does, then you try to resolve it another way or find some
6 non-Wurtsmith way, is that what I understood you to say?

7 MS. AMY HANDLEY: No.

8 MR. KYLE JONES: Okay.

9 MS. AMY HANDLEY: So if -- if -- if there's a
10 particular aspect within that document that we feel needs to
11 be addressed but it's better applied, say, like in a VI,
12 like if it's something related to PFAS but a concern we have
13 is related more to vapor intrusion, so VI?

14 MR. KYLE JONES: Yes.

15 MS. AMY HANDLEY: We'll just defer that to --
16 we'll -- we'll look for this within the VI work plan which
17 is upcoming.

18 MR. KYLE JONES: Oh, okay. All right.

19 MS. AMY HANDLEY: So that's -- that's what I
20 meant.

21 MR. KYLE JONES: Okay.

22 MS. AMY HANDLEY: That this might be found
23 somewhere else in the future.

24 MR. KYLE JONES: Okay. And then, Steve, I -- I
25 have a question for you regarding the comments that Dave

1 made. You know, we all work kind of hard on reviewing Air
2 Force's work plan that was or -- or plan for work if I could
3 say it that way, that was included in the remedial
4 investigation document as an addendum to the QAPP for a
5 quality assurance project plan which was entered and -- and
6 adopted by the Air Force. And I don't know that, that it's
7 actually appropriate or legal to just say we're not going to
8 do that, we're going to write another work plan. So what --
9 what is the rationale then for, or what is it that, that --
10 why is it changed?

11 MR. STEVE WILLIS: We did -- we did additional
12 investigation that wasn't originally planned, had to step
13 out further.

14 MR. KYLE JONES: Where? I'm sorry.

15 MR. STEVE WILLIS: Which specific?

16 MR. KYLE JONES: Yeah. I mean, on the east side
17 or --

18 MR. STEVE WILLIS: No; no; no. Just in general.

19 MR. KYLE JONES: Okay.

20 MR. STEVE WILLIS: You know, you collect -- as
21 part of the delineation process you collect a sample and if
22 it exceeds your cri- -- criteria, you'll step out and
23 collect an additional. Well, we had to step out numerous
24 times more than we anticipated which all costs money -- time
25 and money. We did some additional investigation and

1 sampling as a result of feedback from the RAB. There was
2 locations that were not planned initially, but to address
3 the concerns we collected samples in those locations. All
4 that's taken time and money and we're out of both at this
5 point. So the -- we -- we pick some key points which Dave
6 indicated, the piezometers and transducers on the east side
7 of the lake to start collecting some data there. The PFAS
8 signature analysis, the soil sampling under the foam is all
9 going to be pushed to the next investigation because we just
10 don't have the money to do it now.

11 MR. KYLE JONES: Oh, that's -- that's --

12 MR. STEVE WILLIS: And -- and -- and I -- I cannot
13 mod- -- modify this contract any further to add more money
14 or more time.

15 MR. KYLE JONES: That is understandable. But
16 it's -- I thought I heard that you or someone said that a
17 new work plan had to be written.

18 MR. STEVE WILLIS: We will have to write a new
19 work plan for that follow-on investigation. It may or may
20 not be the same contractor. It's going to be a brand new
21 contract. It'll be a new, new scope for them, it'll be a
22 new work plan and we will sit with EGLE to help develop
23 that.

24 MR. KYLE JONES: But if the work plan is already
25 written --

1 MR. STEVE WILLIS: Well, we can do a lot of copy
2 and paste from -- from the existing QAPP addendum.

3 MR. KYLE JONES: Yeah. I mean, if you hire a new
4 consultant because you then have been given money to do so
5 and you have time to do it, why is that -- that consultant
6 or that contractor not able to work directly off the -- the
7 remedial investigation work plan and QAPP that exists right
8 now?

9 MR. STEVE WILLIS: Because that's going to be
10 incomplete. There are additional ga- -- additional data
11 gaps, additional sampling that's not necessarily spelled out
12 in the QAPP that need to be defined for them to go and do.
13 So -- so if they were strictly to work off of the existing
14 QAPP addendum, they would not get all of the data gaps.

15 MR. KYLE JONES: So if -- if I could --

16 MR. STEVE WILLIS: So I need a new planning
17 document to spell out what they're going to do.

18 MR. KYLE JONES: I understand. I guess what I
19 didn't understand before and now I think I am understanding
20 is what you're saying is, and you've told the RAB this
21 before, is that once Air Force gets to the feasibility study
22 stage of the CERCLA process, you anticipated having data
23 gaps that would be not identi- -- or they'd be identified
24 but not sampled and measured yet. And that you would do
25 that, you would write that work plan for those data gaps and

1 do them simultaneously to the feasibility study work that is
2 really separate from investigation work. And do I
3 understand then that the east side of Van Etten Lake
4 sampling will be -- is part of that so-called data gap,
5 remedial investigation that's going to be done
6 simultaneously to the --

7 MR. STEVE WILLIS: Yes.

8 MR. KYLE JONES: -- the feasibility study?

9 MR. STEVE WILLIS: Yes.

10 MR. KYLE JONES: Okay.

11 MR. STEVE WILLIS: Yes.

12 MR. KYLE JONES: Thank you.

13 MR. STEVE WILLIS: Uh-huh.

14 MR. DAVE CARMONA: Steve? Dave Carmona, Community
15 member. My question for you then is since you are coming up
16 to fieldwork this season, basically you've said everything
17 is scheduled for the season. So far we've run out of money
18 and run out of time. Are you saying you don't get a
19 financial refresh until the beginning of the fiscal year in
20 October?

21 MR. STEVE WILLIS: That's correct.

22 MR. DAVE CARMONA: Okay. So basically where
23 I'm --

24 MR. STEVE WILLIS: And we still -- we still need
25 to finish collecting. We've still got some additional

1 fieldwork for the ongoing RI that needs to be done and Paula
2 will talk about that. The plan is to have it done by the
3 end of the month. But then we've got to compile the three
4 years of data we've collected and go through it all to see
5 what additional data gaps might exist. And that'll be all
6 identified in the RI report. There'll be a section that
7 talks about data gaps. So I need that report, all that data
8 compiled and put into a report before I can go out and put
9 on contract the follow-on data gap investigation. Otherwise
10 I don't know what gaps they're investigating to tell another
11 contractor to go fill.

12 MR. DAVE CARMONA: Okay. Can -- can you see how
13 it appears as though Van Etten is being allowed to fall --
14 feels like it's being allowed to fall between the cracks?
15 You're up against a time line, you're up against budget, you
16 have to compile the data to move into the feasibility study,
17 you have six months set aside for the feasibility study, and
18 that occurs primarily prior to the 2025 fieldwork season.
19 So since you're only allowed six months for that and to get
20 that report written, how are you going to get that data in
21 there and how is it going to be reflected in the feasibility
22 study? Because right now based on your time line, this
23 could very easily be left out because of budgetary issues,
24 time line issues, or requirements of the Air Force.

25 MR. STEVE WILLIS: No. It's -- that investigation

1 on the other side of the lake is already in writing in the
2 QAPP addendum. So it's been identified. It'll be carried
3 forward. It's not going to drop through the cracks.

4 MR. DAVE CARMONA: I think most of us have a -- a
5 concern that the appearance is not good. The optics on this
6 are not good for the Air Force. I just -- something needs
7 to break this dam loose here. And I know we're only a
8 population of 10,- to 15,000 people compared to other Air
9 Force bases where you have a half a million -- quarter
10 million to half a million people nearby, and for lack of a
11 better term this is an acceptable loss up here, but it is
12 not to us.

13 MR. STEVE WILLIS: It isn't to the Air Force
14 either. Believe me, you guys are not overlooked.

15 MS. JESSIE HOWARD: Okay. So at this time I would
16 like to --

17 MR. ARNIE LERICHE: Jess? I'm sorry.

18 MS. JESSIE HOWARD: Yeah.

19 MR. ARNIE LERICHE: I didn't know that you --
20 Arnie Leriche, Community RAB. I've got a question for Steve
21 and for -- and Amy. About a year ago I think it is the BCT
22 report's minutes went from detailed to a summary type and a
23 lot of detail may not be in there for us to learn what's
24 going on or had been discussed at those meetings, but that
25 is what it is. But the speed in which the report's been

1 made available to us really hasn't improved. So is there
2 something that's holding those up? That -- because the data
3 and the information from what you and EGLE and other State
4 agencies are doing, there's no reaction time for us to
5 understand, then comment or ask questions to you at a RAB
6 meeting or whatever. Do you have any suggestions on what
7 could improve that?

8 MR. STEVE WILLIS: I don't know. We can talk with
9 EGLE about the -- the process in getting those approved.
10 Just volume of work for all of us. But we'll sit down and
11 talk about maybe ways we can prioritize some of that, to get
12 it -- make it available to you faster.

13 MR. ARNIE LERICHE: One suggestion I'd like to
14 think about is, and it's actually to add on it's related to
15 what David Winn asked for on that one slide. There is in
16 about every other or third BCT used to be a document flow
17 table.

18 MR. STEVE WILLIS: Oh, yeah; yeah.

19 MR. ARNIE LERICHE: Air Force creates it, reviews
20 it, legal reviews it, then it's sent to the State, State
21 comes back and so forth and then it's finalized and
22 everything and it's maybe about 20-so rows of different
23 reports. That's not always shared with us.

24 MR. STEVE WILLIS: It should be part of the BCT
25 minutes always. If it's not, then it's an oversight that

1 I'll look into.

2 MR. ARNIE LERICHE: Okay.

3 MR. STEVE WILLIS: But it should -- should be the
4 -- the -- it should be minutes, it should be the
5 presentation slides, and it should be the document tracker.
6 That's the table you're referring to.

7 MR. ARNIE LERICHE: Okay. That's a document you
8 produce. I don't see much of where -- I don't know why you
9 can't share that with us with the agenda before at the same
10 time that you give those documents to the State because
11 you've already negotiated what the agenda is and everything.
12 So I don't know what additional --

13 MR. STEVE WILLIS: I'm sorry. I'm not following
14 the question.

15 MR. ARNIE LERICHE: Can you share that before the
16 BCT or the day of the BCT?

17 MR. STEVE WILLIS: The document tracker?

18 MR. ARNIE LERICHE: The tracker and the agenda, so
19 at least we'll see what topics might have been added to the
20 agenda, so we just become more informed.

21 MR. STEVE WILLIS: Yeah. I don't see a reason
22 why -- why we couldn't share that.

23 MS. CATHY WUSTERBARTH: Arnie, can I interrupt
24 you? Because I kind of want to piggyback off of something
25 that you're saying. This is Cathy Wusterbarth. I just want

1 to understand how the BCT minutes work. They -- they're
2 kept by the Air Force and then shared with the State and
3 then the State puts them on their site?

4 MS. AMY HANDLEY: Yeah. So we -- we get them and
5 then we review them to make sure everything that's in there
6 matches what we participated in, and then they will finalize
7 them and then we will share them on the MPART web page when
8 they're final.

9 MS. CATHY WUSTERBARTH: Okay. Can I ask why
10 they're not on the RAB web site, on our Wurtsmith RAB site
11 versus on the State's site?

12 MR. STEVE WILLIS: It's not really RAB -- RAB
13 activity, but the administrative record.

14 MR. MARK HENRY: But the administrative. Right.
15 It could be put in there.

16 MR. STEVE WILLIS: Yeah. I've gotten different
17 opinions on whether they belong there based on the actual
18 definition of the admin record. But we can -- we could put
19 them there or -- or I'll check to see if we can post them on
20 the -- the RAB web site.

21 MR. DAVE CARMONA: Well, why wouldn't --

22 MS. CATHY WUSTERBARTH: Yeah. I don't understand
23 why it's not part of the RAB.

24 MR. DAVE CARMONA: -- why wouldn't it be
25 information and data that we need? This is communications

1 between the Air Force and the State making decisions about
2 how things are going to be done here.

3 MR. STEVE WILLIS: That's true, yes.

4 MR. DAVE CARMONA: And we sometimes don't see that
5 data for six to eight months or longer and it leaves us a
6 space that we cannot fill until that point in time and by
7 then, for example, we miss six or eight months of -- of BCT
8 meetings when we're doing the QAPP addendum comments.

9 Looking back at the meetings that were finally posted, some
10 of that information would have answered some of the
11 questions we brought up and spent time discussing here had
12 we seen BCT minutes.

13 MR. STEVE WILLIS: The minutes are posted in the
14 library. When they're finalized, they're posted in the
15 library, a hard copy.

16 MS. CATHY WUSTERBARTH: Yeah; yeah. No, we need
17 to have them online.

18 MR. STEVE WILLIS: Yeah. I'll look into the -- a
19 mechanism to share them online.

20 MS. CATHY WUSTERBARTH: Thanks.

21 MR. ARNIE LERICHE: Steve? It's Arnie Leriche
22 again. Many sites do publish those into the AR, the
23 administrative record, and I can send you some examples if
24 you want. Chanute is one of them. It kind of memorializes
25 it because that record isn't always there for the public and

1 anyone else that wants to review. The website's not going
2 to be here, can't mark the time for that complete.

3 MR. KYLE JONES: And see -- Kyle Jones here. And
4 just -- just as to the degree that -- and you indicated that
5 you get differing opinions on the appropriateness of posting
6 the BCT information, either in the administrative record
7 public site or the RAB site. To the degree that it's on the
8 MPART web site, it's public.

9 MR. STEVE WILLIS: Yeah. There's nothing that --

10 MR. KYLE JONES: And so it's a little hard for us
11 to understand why --

12 MR. STEVE WILLIS: It's not a -- it's not a -- not
13 a lack of wanting to share it. It's the appropriateness of
14 where to share that and I'll look into that.

15 MR. KYLE JONES: Yeah. Okay. I guess just then
16 to back up what others have said to the -- it seems to me
17 that a very broad def -- or definition of what's appropriate
18 for the RAB site or administrative record should be applied
19 and not a narrow one.

20 MR. DAVE CARMONA: Dave Carmona, Community RAB.
21 Steve, a question for you regarding budgetary issues. Most
22 departments and agencies in the federal government, their
23 heads are given discretionary funds at the beginning of the
24 year. Those generally become available in June or early
25 July. Is there an opportunity or have you experienced in

1 the past the ability to get some of that discretionary
2 funding to apply to the Oscoda area?

3 MR. STEVE WILLIS: We have, yes; definitely.

4 MS. JESSIE HOWARD: Okay. At this time I would
5 like to give the floor to the remaining RAB members for any
6 updates that they have. We can kind of go around the table
7 again. We can start over here with Chelsea.

8 MS. CHELSEA GARY: Yeah. Hi. Chelsea Gary. I
9 just have a few updates to share today. So for the 2023
10 round four water sampling, sampling is now completed and
11 most everyone's results have been sent. I also wanted to
12 share some metrics and a breakdown of the results. As of
13 January 5th, 194 addresses were sampled, 127 of those
14 addresses or 65 percent of them were non-detect. 54
15 addresses or 28 percent of them were detect below our
16 comparison values. 13 addresses or 7 percent were at or
17 above our comparison values.

18 I also wanted to update everyone on our plan for
19 2024, round five sampling. That will be conducted similar
20 to prior years. We are targeting more of the April and May
21 time frame to help get a better idea of seasonality with the
22 results since we typically sample in the summer. Seasonal
23 residents will be targeted more so in May, just to give you
24 a heads up on that because, you know, there are seasonal
25 residents.

1 And then recruitment letters will be sent soon for
2 that. As far as the exposure assessment, clinics are going
3 on this week and scheduling is continuing. As of this month
4 on the 12th, 672 participants have enrolled from 501
5 households and 458 adults and less than five adolescents
6 have completed appointments so far. And that's all I have.

7 MS. JESSIE HOWARD: Thank you.

8 MR. KYLE JONES: Could I -- question of Chelsea?

9 MS. JESSIE HOWARD: Sure.

10 MR. KYLE JONES: This is Kyle Jones again from the
11 Community RAB. What is meant -- well, first of all, can we
12 back up? What was being sampled? Was it drinking water
13 wells? What was being sampled?

14 MS. CHELSEA GARY: Oh, I'm sorry. Yes. This is,
15 like, residential wells, yeah, drinking water.

16 MR. KYLE JONES: Okay.

17 MS. CHELSEA GARY: Uh-huh.

18 MR. KYLE JONES: And when you say comparison
19 values, what -- what does that mean?

20 MS. CHELSEA GARY: Oh, those would be on, like,
21 MDHHS's I guess you could almost say like screening values
22 that we use, our drinking water criteria.

23 MR. KYLE JONES: And what -- can you cite those
24 values for us now? What the --

25 MS. CHELSEA GARY: Oh, what they are?

1 MR. KYLE JONES: Yes.

2 MS. CHELSEA GARY: Oh. Yeah. So for PFOA and
3 PFOS, that would be 8 parts per trillion. For PFNA, that
4 would be 6 parts per trillion; PFHxS, that would be 51 parts
5 per trillion; PFBS, that would be 420 parts per trillion;
6 and then PFHxA would be 400,000 parts per trillion.

7 MR. KYLE JONES: Thank you.

8 MS. CHELSEA GARY: Uh-huh.

9 MS. CATHY WUSTERBARTH: I have a question for
10 Chelsea also. Could you give the participants here some
11 information on the balance study that they might be being
12 contacted for? Do you have any information on that?

13 MS. CHELSEA GARY: Oh. What specifically are you
14 asking?

15 MS. CATHY WUSTERBARTH: Just that you share that,
16 you know, that it's happening and what the concept of the
17 study itself.

18 MS. CHELSEA GARY: Oh, yeah. So I will leave this
19 with we do have a different toxicologist that leads that
20 project. But very generally, that has to do with getting a
21 sense of people's response to finding out their, I guess you
22 could say, exposure to environmental contaminants. That I
23 think just gives you an idea of more of like the behavioral
24 aspects so it's a little bit different than the, like,
25 general exposure assessment that we're doing. Does that

1 kind of help give a little bit of a rundown?

2 MS. CATHY WUSTERBARTH: Yes. So I -- I might add
3 a little bit to it. So it's something that's connected with
4 this exposure assessment?

5 MS. CHELSEA GARY: Oh. Yeah; yeah; yes.

6 MS. CATHY WUSTERBARTH: So people that are
7 participating in the Oscoda exposure assessment that are
8 receiving the feedback and results, --

9 MS. CHELSEA GARY: Uh-huh.

10 MS. CATHY WUSTERBARTH: -- then they are contacted
11 by this study --

12 MS. CHELSEA GARY: Yes.

13 MS. CATHY WUSTERBARTH: -- before they receive
14 their results, asked a series of questions, --

15 MS. CHELSEA GARY: Yes.

16 MS. CATHY WUSTERBARTH: -- and then after they
17 receive their results they're getting some questions.

18 MS. CHELSEA GARY: Yes; exactly.

19 MS. CATHY WUSTERBARTH: So they're -- they're
20 given that. So and I bring that up because, you know, we
21 have been exposed by PFAS by the Air Force and I do think
22 it's relevant in this conversation that people know about
23 what the State is doing to help us understand what our blood
24 results are.

25 MS. CHELSEA GARY: Yeah. Thank you for bringing

1 that up.

2 MS. CATHY WUSTERBARTH: Yeah. And actually
3 there's some monetaries (sic) to participate in that also.
4 I think you'll receive \$50 before and \$50 after. So I
5 encourage all people who are participating in this
6 assessment participate in that also.

7 MS. JESSIE HOWARD: Thank you, Cathy.

8 MR. KYLE JONES: Chelsea, just what is done with
9 the before and after data? What -- what is -- what is the
10 purpose of collecting before -- before and then after and --
11 and what's done?

12 MS. CHELSEA GARY: Right. So I will say that the
13 purpose -- I'm trying to think of how I want to word this.
14 So, yeah, you -- you take a survey before and after you find
15 out your results. So it just gets, it gives us a sense of,
16 you know, I guess how you respond to finding out those
17 results. I don't know if that helps give you a better idea.

18 MR. KYLE JONES: Well, I understand that. But,
19 okay, now you know how they responded. What -- what is done
20 with that information?

21 MS. CHELSEA GARY: I -- I may have to give you a
22 better -- get back to you on that, but --

23 MR. KYLE JONES: I mean, if they're panning -- can
24 you -- do you get them counseling? I just --

25 MS. CHELSEA GARY: Oh, oh.

1 MR. KYLE JONES: -- I'm not understanding exactly
2 what, you know.

3 MS. CATHY WUSTERBARTH: The purpose is.

4 MR. DAVE CARMONA: To provide resources.

5 MR. KYLE JONES: Yeah. What -- what --

6 MS. CHELSEA GARY: That's a really good question.
7 I -- I will have to get back to you on that because
8 obviously we're still in the middle of the study. I -- I'm
9 sure that someone else has a better answer than that than I
10 do, but I will get back to you on that one.

11 MR. KYLE JONES: I super appreciate that. Thank
12 you.

13 MS. CHELSEA GARY: Uh-huh; yes.

14 MS. JESSIE HOWARD: Okay. Continuing to move down
15 the line. Yes, sir?

16 MR. MICHAEL MUNSON: I'm Mike Munson from Oscoda
17 Wurtsmith. I got some positive news. I'll hit just three
18 key points. Kalitta Air completed their construction on
19 their GRE, their ground and runup enclosure and they're
20 using it, this -- this restarted runup. If you want to see
21 it in operation, there is a YouTube video out there that I
22 can share with you after the meeting. Last month I talked
23 about -- excuse me -- operation clean slate where we did a
24 lot of cleanup on the airport, we changed the landscape of
25 the airport, moving a lot of the salvage operations over to

1 the alert area. We moved 200 tons of aggregate off the
2 apron and taxiways. We're currently now looking at that --
3 at those structures and looking at some of the needed
4 taxiway repairs. We'll also be looking for some funding to
5 make those repairs.

6 We just received an MEDC SSPR grant for \$550,000,
7 \$50,000 of local match from the airport, and that will be
8 used to design and engineer and install, i.e. utilities,
9 inner structure water and sewer in the 40-acre parcel that's
10 in the middle of the airport. For those that don't know, if
11 you look at the airport, this is in the southwest corner.
12 And this is to support shovel-ready activity when it comes
13 to our door. Again, the airport is one of the largest
14 employing locations in the county so it's -- it's monies
15 that come in that help to alleviate some of your taxes.
16 Thank you.

17 MR. MARK HENRY: Mark Henry. I have a question.

18 MR. MICHAEL MUNSON: Yes, Mark.

19 MR. MARK HENRY: You say that you moved a lot of
20 aggregate. Where did it go?

21 MR. MICHAEL MUNSON: A lot of it was moved into an
22 area off the airport -- or in the airport out of the area.
23 We kept a lot of it there and it was tested for PFAS, there
24 was none, so it -- but it did stay in the area.

25 MR. MARK HENRY: Thank you.

1 MR. MICHAEL MUNSON: Uh-huh.

2 MS. CATHY WUSTERBARTH: Mike, I have another
3 question.

4 MR. MICHAEL MUNSON: Sure.

5 MS. CATHY WUSTERBARTH: It's something that I saw
6 today -- and this is Cathy. In -- in the last year the
7 investment increase in the -- in the op- -- the operations
8 on the -- in the airport authority did I understand is
9 about -- a value of about 7 million increase?

10 MR. MICHAEL MUNSON: Yes, because -- yes, because
11 we -- we have -- we have I'll use the word repair for lack
12 of a better word or based on resurfaced the runway, also the
13 taxiway. And there was a substantial amount of work needed
14 on the taxiway to meet the new FAA requirements. When that
15 was done about three years ago, it met FAA requirements.
16 Unfortunately, they've changed. So a lot of the monies
17 that -- that was used was some overspending and we had to
18 work with the State of Michigan to be able to get us some
19 more money for that. So, yeah, there's been a huge
20 investment in the airport because, again, that's a very busy
21 site for employment.

22 MS. JESSIE HOWARD: Real quick before we move on.
23 If I could have the RAB members at the tables just move your
24 phones a little further away from the mic? I think we're
25 getting some feedback issues, maybe vibration or something.

1 Thank you very much. Did you have an update for us, Josh?

2 MR. JOSH SUTTON: No update.

3 MS. JESSIE HOWARD: Okay.

4 MR. SCOTT LINGO: No update.

5 MS. JESSIE HOWARD: Arnie?

6 MR. ARNIE LERICHE: I've got a -- a question
7 mostly for Steve and -- but also for Amy. And that's the --
8 the lake five-year review report. It's now four and a half
9 years overdue. Most regions that are EPA regional offices
10 issue because they're a not national priority listed site,
11 they will issue a non-compliance letter to the Air Force or
12 DOD, any facility. It's like a notice of violation. It's
13 just a notice enforcement action. And we've talked about
14 this many times over the last five years. And can you give
15 us a highlight of what the status is? Because I've heard
16 something that's disturbing, that is EGLE still doesn't
17 see -- hasn't seen the draft.

18 MR. STEVE WILLIS: That's correct. It should be
19 going to EGLE very soon. The contractor was addressing the
20 last few Air Force legal comments and then it was going to
21 go to EGLE, and then EGLE will review it and we've already
22 started the planning process for the next five-year review
23 which starts in the end of May. I think 30th of May is the
24 period. So the next one will be on schedule. We had a
25 number of issues that were identified when this five-year

1 review was initially written that we resolved. So we
2 shouldn't have the same delays for the next one.

3 MR. ARNIE LERICHE: Okay. For people that don't
4 know and the public, the five-year review is a review of any
5 control equipment or anything that --

6 MR. STEVE WILLIS: Any remedy that's been put in
7 place at the site, yeah.

8 MR. ARNIE LERICHE: -- remedy -- remedy at all
9 there as on non-equipment types. That once they're
10 implemented -- approved for removal or remedial action, once
11 they're approved and they're put in operation, that goes
12 into the next five-year review. And the FT02 was the first
13 PFAS-related that should have been in the fourth report, the
14 one that's late. Without knowing the Air Force's and EGLE's
15 review of the performance level of those remedial actions,
16 are they adequate? Do they meet what the goals were, the
17 specifications? Or is there some improvement that needs to
18 happen? We're now four and a half years late from being
19 able to make that decision or for the public to know and
20 have confidence.

21 MR. STEVE WILLIS: So, yeah, there's -- and just
22 for everyone's benefit, the -- every five years for in the
23 case of NPL sites, it's required. In the case of non-NPL
24 sites within the Air Force, Air Force policy dictates that
25 we do a five-year review anyways. And if you look at each

1 of your remedies that was put in place in a record of
2 decision, you look at the remedial action objectives of that
3 remedy and you evaluate every five years whether or not your
4 remedy is achieving that. And your remedy could be a
5 treatment system or it could be land use controls of some --
6 some sort. You know, it could be fencing, it could be
7 signage, it could be deed restrictions. But you go back and
8 look at whether that remedy is effective and is preventing
9 an exposure from occurring. Those, like Arnie said, are
10 done every five years. This one is late. No one will
11 dispute that. But there are no systems that are not meeting
12 their objectives.

13 MR. ARNIE LERICHE: And --

14 MR. STEVE WILLIS: And we wouldn't have waited
15 this late in the process if they weren't. We would have
16 addressed that right away.

17 MR. ARNIE LERICHE: Okay. The -- you mentioned
18 that in May you're going to be starting the next one.

19 MR. STEVE WILLIS: The report.

20 MR. ARNIE LERICHE: So the work plan, has that
21 been finalized?

22 MR. STEVE WILLIS: Hasn't yet. They're working on
23 it.

24 MR. ARNIE LERICHE: When will that be shared with
25 us? Because it's basically a questionnaire that the State

1 asks questions of you wanting to know (inaudible) and
2 it's --

3 MR. STEVE WILLIS: I guess we'll -- we'll put that
4 on the -- the AR when it's done.

5 MR. ARNIE LERICHE: Okay. So before you start in
6 May?

7 MR. STEVE WILLIS: Yeah.

8 MR. ARNIE LERICHE: Okay.

9 MR. MARK HENRY: AR is the administrative record.

10 MR. STEVE WILLIS: I'm sorry. Thank you, Mark.

11 MS. JESSIE HOWARD: All right. Did you have an
12 update for us? Sorry. I can't see your name tags.

13 MR. GREG SCHULZ: Greg. Greg.

14 MS. JESSIE HOWARD: Greg. Sorry.

15 MR. GREG SCHULZ: Well, I guess, yeah, I have some
16 thoughts anyway. I think, you know, last year when the
17 Three Pipes pilot study was proposed was really a lot of
18 excitement from the RAB and the Community that we're --
19 we're going to finally do something with the output coming
20 out of Three Pipes that just goes unabated. It's really low
21 hanging fruit and just don't do anything about it. And now
22 with the RI being pushed off to at least 2025, which means
23 any real remediation is out to 2026 at best and 2027, seems
24 like there would be something that could be done short of an
25 RI and I -- on that waterway that would capture some

1 percentage. It just seems like a waste. It's -- you know,
2 I understand the CERCLA process and it's methodical and you
3 don't want to do harm, but I think we're really missing an
4 opportunity to capture some PFAS relatively inexpensive
5 compared to conventional needs by some passive capture. It
6 would be really great to look at again. So I -- I would
7 really like to see some brain cells spent on doing some kind
8 of a pilot study that could be done and (indiscernible). I
9 think really missing the boat on that.

10 MR. STEVE WILLIS: I don't -- did you -- I think
11 you were able to join the CPA presentation; right? Or
12 did -- did you or not? It seems like you did. Critical
13 process analysis presentation. So we've got an IRA plan for
14 that and as I indicated earlier, we've requested funding for
15 next year. I don't have funding to do anything else before
16 that. And the -- the -- the reason we canceled the pilot
17 study --

18 MR. GREG SCHULZ: Oh, I understand why the pilot
19 project as proposed was. But, I mean, didn't really spend a
20 whole lot of time or effort and that's what I'm tell --
21 that's what I'm saying is I think -- I mean, something else
22 could be done in that relatively easy. Maybe we capture 25
23 percent of the PFAS, you know. I mean, it -- it still would
24 give meaningful number. Those are really big numbers going
25 down through those three pipes every single day.

1 MR. STEVE WILLIS: Yeah.

2 MR. GREG SCHULZ: You know, it's -- it's -- it's
3 still -- it's really low hanging fruit to think it's --
4 there be something short of the RI that still produced
5 meaningful numbers because we're probably looking at another
6 three years before something actually --

7 MR. STEVE WILLIS: Yeah.

8 MR. GREG SCHULZ: -- in a best case scenario.

9 MR. STEVE WILLIS: We did look at a few
10 alternatives, but none of them panned out, so we're pursuing
11 that IRA at this point.

12 MR. GREG SCHULZ: Okay.

13 MR. STEVE WILLIS: Did you have anything else?

14 MR. GREG SCHULZ: I don't know. Would you be open
15 to suggestion if somebody came up with something?

16 MR. STEVE WILLIS: Sure.

17 MR. GREG SCHULZ: All right.

18 MR. ARNIE LERICHE: Just a question on Three
19 Pipes. We all call it Three Pipes and that's where it is
20 when it goes into the river. But the outfall has been
21 hidden in there and never discussed really for two years and
22 then this pilot thing came out. So I did a little bit of
23 research in the last month because I wanted to know how that
24 happened. So I went to the ecological risk assessment work
25 plan that was finalized in '22. Lo and behold, their work

1 plan has a sampling for biota and mammals or whatever from
2 that, and I'd like you to check and see was that
3 accomplished and was it accomplished up at the outfall where
4 the 1,000 part per trillion plus concentration has been
5 coming out?

6 MR. STEVE WILLIS: So Paula will give us an update
7 on all that later in her presentation.

8 MS. JESSIE HOWARD: Kyle, did you have an update
9 for us? If we can just try to stick to the updates right
10 now?

11 MR. KYLE JONES: Yes. I -- I have no update.

12 MS. JESSIE HOWARD: And then we'll get to
13 questions and comments and things like that later.

14 MR. KYLE JONES: I -- I have no update.

15 MS. JESSIE HOWARD: Cathy?

16 MS. CATHY WUSTERBARTH: I do have an update. So
17 this action item list that Steve produces for us and he --
18 he got to the RAB this -- this last week, he did get that on
19 the Air Force or RAB website, so this is a first and we're
20 really -- I'm -- I'm personally very excited about it.
21 So -- so you can see of the list of questions and things
22 that we've asked the Air Force to do or maybe the state
23 or -- but it's -- you know, there's, we're on 140 now or
24 something like that. So this is -- these are the ongoing
25 asks that happened in this -- in this meeting and there's

1 some that go back, you know, five years. So it's -- it's a
2 good list for us to look at and to keep an eye on because we
3 don't want things to fall through the cracks and that's what
4 this document is there for. So appreciate that that's on
5 the website now along with all those -- the presentations
6 from yesterday, the technical session is on there and the,
7 you know, poster boards and all that. So thank you so much.
8 That really helps with the transparency, this information
9 and getting it out to the public, so -- oh, and I saw Kelly
10 Lively come in the door. She is with Senator Peters'
11 office, so

12 MS. JESSIE HOWARD: Thank you. Bill?

13 MR. BILL GAINES: Signage. I presume that the
14 signage that is up for no fishing and no hunting is not
15 included in your five-year plan since you've said that
16 signage and its effectiveness was acceptable?

17 MR. STEVE WILLIS: So none of our remedies that
18 are in place include any kind of signage related to that.

19 MR. BILL GAINES: Okay. Just a comment. There is
20 signage. It is absolutely ineffective. I watch people
21 hunt. I watch people fish. I know that there's not signage
22 at the places where you access the river to fish from the
23 river. So if anybody thinks that signage is doing any good,
24 they're wrong.

25 MS. JESSIE HOWARD: Rex?

1 MR. REX VAUGHN: Yesterday at the technical
2 session I had a bit of an epiphany with some of the
3 information that was presented. And the epiphany went wait
4 a minute. They've stuck all this stuff in the ground at the
5 FT02 place and they're not catching a whole lot of PFAS
6 that's getting past it and getting into the marsh. That
7 made me very uncomfortable because at the end of the pipes
8 coming out of the water treatment plants they're meeting
9 standards. It's clean water coming out of there. But it's
10 going back into the ground and it's mixing in with stuff
11 that got by the extraction well and is continuing its way
12 into Clark's Marsh and into the Au Sable River.

13 So my -- my comment is don't get a warm fuzzy
14 feeling about what's happening out at FT02, because there's
15 a awful lot of bad stuff getting past the system that's
16 there and it probably won't be fixed until they get the
17 feasibility study done and then get into the final -- final
18 remedy stage. That kind of amplifies some of the things
19 that Bill mentioned about, you know, warning the public that
20 it's still a hotspot down there. And just because there's
21 pumps and pipes and monitoring wells and a bunch of
22 engineers running around doesn't mean that it's safe.

23 So stay out of Clark's Marsh. It's not a healthy
24 place for humans or animals or anything else even with all
25 the equipment that's there. Because the amount of PFAS

1 that's coming down off that hill from all the stuff that the
2 Air Force dumped on the ground at the Far- -- the Clark
3 training facility, that that system can't get. It just
4 can't get it the way it's designed and operated. It's
5 operating perfectly, but it's only grabbing a small
6 percentage of the total amount of contamination that's going
7 into Clark's Marsh.

8 MS. JESSIE HOWARD: Dave?

9 MR. DAVID WINN: I have nothing right now.

10 MS. JESSIE HOWARD: Denise?

11 MS. DENISE BRYAN: I think my comments are
12 regarding the -- my town exposure update that we're grateful
13 to be a partner in this area to ensure our neighbors have a
14 chance to get some baseline data. And it's going to become
15 ever more important as time and money becomes factors and
16 effective, impactful remediation efforts here. It is on the
17 back of this community that four to five health advisories
18 have been issued from local public health for the State.
19 And I have a clear memory of being in the Oscoda Library and
20 our neighbor Tony telling the Air Force "time's up" seven
21 years ago. So we felt like the time has been up for a long
22 time for the impactful actions.

23 And I think when we look at community recovery and
24 resiliency, we are so far from putting anybody at ease for
25 what's going on and we don't have an end quite in mind or

1 it -- it's -- it's every year it's drawn out and it gets
2 more difficult to really at all rationalize the lack of
3 forward progress that our neighbors, friends and families
4 would have hoped for. I didn't think there was anything
5 that seven years in that library when Tony said "time's up,"
6 if you were in the room and felt the passion of people
7 worried about their health and their grandchildren.

8 And when you think of Van Etten Lake and the foam
9 in the spring that's around the corner and the toxicologist
10 told me "Yes, the water rinse station is even for the dogs
11 swimming in the lake." We are out of time and money but the
12 health impacts are mounting and the data does not give us
13 any reassurance that this is going to be impactful or even
14 enough. And I do think that we -- we really expect better.
15 And time and money, I watched Oscoda Township bills go up
16 with what you had to absorb with those factors around PFAS
17 in this community.

18 I see families also try to come up with the money
19 to hook up to municipal and navigate the change of life with
20 hunting at Clark's Marsh, which we call ground zero. And so
21 I just want to keep in mind that health for our neighbors is
22 the most important focus and we need to continue the
23 expectation that the Air Force find the remedies to time and
24 lack of money because we're out of it, too. So going home
25 tonight, let's continue to talk to families and neighbors

1 about this is really disappointing. But as a health
2 officer, we are fans of community. We're very networked in
3 with the legislators too, and this conversation will
4 continue. Thank you.

5 MS. JESSIE HOWARD: Thank you. Dave?

6 MR. DAVE CARMONA: Dave Carmona, Community RAB. I
7 just want to thank NOW for their continuing efforts in the
8 legislative side of this issue and Senator Peters' office
9 for all they've done in the past year to really start
10 pushing on this issue.

11 MS. JESSIE HOWARD: Thank you. I believe we have
12 Jessica Stuntebeck with us virtually. Would you like to
13 give an update, Jessica?

14 MS. JESSICA STUNTEBECK: I'll turn it over to Ben.
15 He's there in the meeting, I believe.

16 MS. JESSIE HOWARD: Thank you. Ben, do you want
17 to come up and use my microphone?

18 MR. BEN WIESE: That one?

19 MS. JESSIE HOWARD: That one's not going to go on
20 the speaker, sorry. Front and center.

21 MR. BEN WIESE: Great. So I just want to say that
22 the Forest Service has been working with Aerostar quite a
23 lot as these projects progress and we appreciate how willing
24 they are to follow our standards. So folks don't realize,
25 but everything they do out there, Forest Service specialists

1 have looked over. We put a monitoring well in. We verified
2 that there's no endangered plants, we have specifications
3 for dealing with endangered species like snakes. So I just
4 wanted to bring that up that we are doing our part for the
5 other aspects of the environment and appreciate the
6 cooperation, so thank you.

7 MS. JESSIE HOWARD: All right. Thank you, Ben.
8 And I believe we also have Daniel Stock with us virtually as
9 well. Daniel, do you have any updates for us?

10 MS. AMY RAUSER: He hasn't --

11 MS. JESSIE HOWARD: You want to unmute yourself,
12 Daniel? You can address the RAB whenever you're ready.

13 MR. DANIEL STOCK: I think you couldn't hear me.

14 MS. JESSIE HOWARD: Now we can. Start over.
15 Sorry. Whenever you're ready.

16 MR. DANIEL STOCK: I guess my unmute -- my unmute
17 does not seem to be working, so was just talking to myself.

18 MS. JESSIE HOWARD: We can hear you now.

19 MR. DANIEL STOCK: I -- I -- I have no comment.

20 MS. JESSIE HOWARD: Okay.

21 MR. DANIEL STOCK: Don't know what I can do to
22 hear the comments from these people.

23 MS. JESSIE HOWARD: Okay. So next we will have an
24 update on other RAB business from Mr. Willis.

25 (RAB Business Update at 6:18 p.m.)

1 MR. STEVE WILLIS: Next -- next slide, please.

2 MS. JESSIE HOWARD: Brendan, next slide.

3 MR. STEVE WILLIS: So as Cathy indicated, the RAB
4 action item list was distributed to RAB members prior to the
5 meeting via e-mail and also hard copies have been provided
6 to them, each of them here at the meeting and it is on our
7 RAB web site.

8 We did conduct a virtual meeting specifically to
9 review action items. As Cathy indicated, the list is fairly
10 long. We've got some action items that are tied to
11 completion of the RI that were -- the questions were asked
12 two to three years ago and so it's a long process. So the
13 list keeps growing, waiting to finish some of this work so
14 that we can close some of these action items. But because
15 there's so many we really don't get the dedicated time in
16 these RAB meetings to go through them and discuss them in
17 any detail. So we started having separate virtual action
18 item discussions specifically to go through the list item by
19 item. I think the last one took almost two hours.

20 And so we had one in December after the last RAB
21 meeting and the next one, I propose that we have that on the
22 27th of March at 6:00 p.m. eastern. The bottom of the slide
23 here there's a total of -- oops, looks like I can't count.
24 Oh, there was nine action items open at the last RAB
25 meeting. We closed two and then we've got a total of 44

1 that are still active and ongoing. And so, again, in the 27
2 March meeting we'll go through each of those, discuss them
3 and then if any new action items are generated from the RAB
4 meeting tonight, they'll be added to the list and we'll go
5 through those as well. Next slide.

6 MS. CATHY WUSTERBARTH: So, Steve, can we --

7 MR. STEVE WILLIS: Yes.

8 MS. CATHY WUSTERBARTH: -- if there are some that
9 are jumping out at us, can we just comment on -- or can we
10 comment on them? I know there's a couple, like, for
11 instance, 130.

12 MR. STEVE WILLIS: I'm sorry. Which one?

13 MS. CATHY WUSTERBARTH: Item number -- well, not
14 130. The visit to the -- the area, the lab, the local lab.

15 MR. STEVE WILLIS: Oh, uh-huh.

16 MS. CATHY WUSTERBARTH: Yes. If you could mention
17 that to the -- I'd appreciate it.

18 MR. STEVE WILLIS: Yeah. I'm not sure what the
19 action item is. But I did receive an invitation from Dean
20 Wiltse who owns the -- the environmental lab that's here at
21 Wurtsmith. So we did go on a tour of the lab on Tuesday of
22 this week just so he could show us the facility, talk about
23 their capabilities. And so our contractor is going to
24 evaluate whether there is a -- a role that that local lab
25 could fill in our work at Wurtsmith. Thank you.

1 MS. CATHY WUSTERBARTH: Thank you.

2 MS. JESSIE HOWARD: Thank you. All right. So if
3 that is it for the additional RAB business, at this time I
4 would like to take a 10-minute break. When we return, we
5 will have two presentations.

6 (A recess was taken.)

7 MS. JESSIE HOWARD: All right. Before we begin
8 tonight's presentations, I would just like to request that
9 for the sake of time all RAB members please hold their
10 questions and comments to the end of each presentation. The
11 presenters will address those at the end. Without further
12 ado, Paula.

13 (RI & IRA Updates at 6:34 p.m.)

14 PAULA BOND

15 MS. PAULA BOND: All right. Thanks, everybody,
16 for coming. I'm going to do a really brief, brief update on
17 the RI activities that we have accomplished since our last
18 RAB meeting. Could you go to the next slide, please?

19 We had a little bit of discussion tonight about
20 the UFP-QAPP addendum that we prepared. We had a couple of
21 telephone calls with EGLE to go over some of their call maps
22 on the UFP-QAPP addendum. We've gotten those worked out and
23 we sent comment responses. They're back in EGLE's hands now
24 and they're taking a look at those for final review before
25 that document goes final. That's the only document that we

1 have left with the RI right now, other than the final RI
2 report.

3 The nature and extent investigation is 99 percent
4 complete. We have just a few things left to do. Like Steve
5 said, we are planning to be done with everything by the end
6 of the month. The weather has slowed us down just a little
7 bit. There are a couple of well clusters and we've talked
8 about these several times that are on Forest Service
9 property down on the river. The Forest Service has asked us
10 to wait to install those wells until Clark's Marsh is
11 frozen, so that we can get down to those locations without
12 impacting the biota as much. Unfortunately, the winter is
13 not cooperating with us to -- to freeze Clark's Marsh. So
14 we're waiting on those.

15 We have some existing monitoring wells that we're
16 sampling and the new monitoring wells that we're installing.
17 We'll finish that monitoring well installation later this
18 week, early next week and all the monitoring wells will be
19 installed. And then, like I said, we'll -- are expected to
20 be 100 percent complete of this phase by the end of
21 February. Next slide, please.

22 This slide, you guys saw this in your packets
23 before. I just put together some numbers of samples that we
24 have collected during the RI. We've collected groundwater
25 samples, soil samples, surface water sediment, some seep

1 samples, biota samples, we've collected samples from the
2 storm and sanitary sewers. And I have some numbers here in
3 this table and if you look at the total, so far we've
4 collected to date 4,000 -- over 4,000 samples. So just to
5 kind of give you an idea of the magnitude of the sampling
6 that has gone on out here during the RI. You can look at
7 the individual, groundwater is 1200. Soil -- we've
8 collected more soil samples than anything else out here.
9 Next slide, please.

10 This figure is a little bit hard to read with the
11 lighting in here, but these are the groundwater
12 investigation vertical aquifer sampling locations that we've
13 completed during the RI. And this, even though it's a
14 little bit dark, it's kind of a little bit hard to look at.
15 But you can see that all of these green squares are
16 locations where we have done vertical aquifer sampling. So
17 you can see these kind of run the gamut, up in the north
18 where the DRMO is up here all the way down to the western
19 end of the runway, the wastewater treatment plant down here,
20 FT02. So all over -- basically all over the base we've
21 collected groundwater samples.

22 We're investigating the groundwater
23 concentrations. We're trying to delineate those out, the
24 extent of the groundwater plumes using the lower of the RSL
25 or the EGLE screening value and I've listed those there for

1 you. But we're nearly complete with all of that. So next
2 slide, please.

3 The soil investigation. Again, this figure shows
4 just colors red/green to show you where we had a location
5 that exceeded our screening criteria or that was below. And
6 there's also some blue ones in here. They're a little bit
7 hard to see. And those are the locations that exceeded our
8 screening or ecological screening criteria. I've listed out
9 on this slide the regional screening levels that we're using
10 for soil. These are the human health numbers for you, but
11 you can see the red ones, they're kind of concentrated.

12 This is the fire training area which makes the
13 most sense. That's where we had heavy use of AFFF, so
14 that's why there's a lot of red ones here. Sludge spreading
15 areas down next to the wastewater treatment plant, and then
16 all on the base operation apron up here there are some,
17 quite a few red ones up there where calibration activities
18 and different things like that took place up here. Next
19 slide, please.

20 Surface water, sediment and seep samples. We have
21 collected samples for Van Etten Lake, Van Etten Creek, the
22 Au Sable River, from the ponds and streams within Clark's
23 Marsh including pond one, pond two and three that are down
24 here. A little bit hard to see on this figure. And then
25 we've collected some seep samples from Van Etten Lake up in

1 this area, and from Clark's Marsh we've collected some seep
2 samples down here on the north side of pond one. We've
3 collected -- it's this little sample right here. It's --
4 it's a surface water sample. We're calling it surface
5 water, but there's a seep in this area that is supporting
6 the surface water here, so that's kind of a surface water
7 seep sample down that, but we're throwing that into just the
8 surface water category even though I believe it's really
9 more representative of a seep. So that's kind of the
10 locations all over where we've collected surface water
11 sampling and seep samples. Next slide, please.

12 Biota sampling. We've done a bit of this
13 terrestrial and aquatic. We've collected vegetation plants
14 from areas where we've had soil impacts and you can see some
15 of these areas here on this figure. You can see where we've
16 collected a lot of the terrestrial data, and then the
17 aquatic data is collected from the river, Van Etten Lake and
18 the river. We've collected small mammals. We've captured a
19 lot of white-footed mouse, mouse. We've had -- you know,
20 some of our issues with the small mammal collection that
21 we've seen, there wasn't really a whole lot out there to be
22 captured and a lot of times we would capture something and
23 then some other animal would come along and, and steal our
24 capture. So we've had to deal with some feisty racoons out
25 there that were taking, I think, some of our small mammal

1 samples.

2 We've collected soil associated with those small
3 mammal samples in some of these exposure units here. We've
4 collected aquatic vegetation from around the ponds and the
5 river and the lake. We've collected fish samples and we've
6 collected sediment associated with some of those. Next
7 slide, please.

8 Storm sewer sampling. I think we've talked a
9 little bit about this in the last RAB conducted on samples
10 from the storm drains onsite. You can see these blue dots
11 here. These are from around the old maintenance hangar, the
12 apron, and these connect into the pipe that comes down to
13 Three Pipe's Ditch. So we've sampled these manholes here to
14 get a better idea of what's starting at the head of this, at
15 the pipe, and then coming down, all the way down to Three
16 Pipes Ditch.

17 We've also collected some samples over near the
18 base operation area from these storm -- storm drains here.
19 Then we did some, a rain event -- or one event with no rain
20 and then event -- an event later after rain. We did do a
21 camera survey of a portion of the storm drain. One of the
22 issues that we had with the camera survey is that the rover
23 that goes down in the drain, there was just too much water
24 even during a non-rain event, so much water flowing through
25 there, that the rover could not get through the drains. And

1 if you had a chance to look at the posters, this information
2 is shown out there on the posters where the camera did pick
3 up some -- some -- some cracks or seeps in the storm drain
4 pipe where the groundwater is coming in, so -- and that's
5 shown on the posters out there. That's why there's so much
6 water in that pipe. Next slide, please.

7 Sanitary Sewer Sampling. We sampled four pump
8 stations and three manholes up here toward the Aircraft
9 Alert Area and integrated maintenance. We collected samples
10 here at 5091 and 5092. Over by the maintenance hangar we --
11 over here we collected some samples, the old maintenance
12 hangar in AFFF lagoon area. And we tried to camera some of
13 the sanitary sewers as well, but we did have some similar
14 issues there. Not because water was coming in, but just
15 because of different pipe sizes and some other material
16 flowing through there which made it a little bit difficult.
17 But we did get a little bit of camera material for the --
18 the sanitary sewer. Next slide, please.

19 We -- heard it mentioned earlier about the
20 transducer study. We did install a number of new
21 piezometers on the south side of Van Etten Lake and on the
22 east side of Van Etten Lake. We've got transducers in those
23 wells. We installed some transducers also in some of the
24 existing EGLE wells that are down here. And we're looking
25 at those to measure changes in the water levels, seasonal

1 when the lake re-rise and lower the lake level to capture
2 those changes. We're trying to get a better idea of the
3 groundwater flow in this area and the potential groundwater
4 divide that it's a little bit difficult to see with the
5 lighting on this, but over in this area between the lake
6 and -- and Lake Huron. Yes, Mark?

7 MR. MARK HENRY: Mark Henry. I have a question
8 about the transducers on the east side of Van Etten Lake.
9 The screen zones for the wells that you put those in, were
10 they approximately the same elevation as the residential
11 wells?

12 MS. PAULA BOND: We have different screens in
13 those trans- -- those wells that we installed on the east
14 side of the lake. We did shallow, medium and deep so we
15 have three zones that we did transducers in over there at
16 each location. So a lot of the drinking water wells over
17 there we don't necessarily know the depth, but there's no --
18 a lot of information on the screened intervals. But I'm
19 sure with the three screens, the shallow, medium and deep
20 that we have, that we are capturing some -- that the depth
21 of the drinking water wells over there.

22 MR. MARK HENRY: And do you have long screens on
23 those?

24 MS. PAULA BOND: We do have 10-foot screens on
25 those, yeah.

1 MR. MARK HENRY: Okay. Thank you.

2 MS. PAULA BOND: You're welcome. Next slide,
3 please.

4 It's a very -- a similar story with the Van Etten
5 Creek Hydrologic Study. So we have installed more
6 piezometers on the east and west sides of Van Etten Creek
7 with transducers in those again to measure water levels.
8 Both sides up here near the dam we have some wells. And
9 then further down gradient we've got a couple on the side
10 down here on the creek -- it's kind of hard to see here.
11 And then down at 41, down here where the creek cro- -- M-41
12 crosses the creek, we have some locations down there, too.

13 The USGS has installed some monitoring stations.
14 One of those is at M-41 and Van Etten Creek. There's a
15 permanent monitoring station there. They installed a
16 gauging station on Van Etten Lake, and then there's some
17 other stations. There's one in Clark's Marsh and then a
18 couple on the river that they've installed that are doing
19 automatic data collection. So we're using the data that
20 they're collecting. Yes, Mark?

21 MR. MARK HENRY: Is that recent installations that
22 the GS put those in?

23 MS. PAULA BOND: Yes; uh-huh; yeah, this year.

24 MR. MARK HENRY: Wonderful. Thank you.

25 MS. PAULA BOND: Yeah. And we've got the links.

1 Steve can share the links to those websites. You can go to
2 the website and download that data. Yeah. Next slide,
3 please.

4 MR. STEVE WILLIS: And that was actually -- that
5 was actually done under an Air Force cooperative agreement.
6 We funded it.

7 MS. PAULA BOND: Steve mentioned a little bit
8 about the letter campaign that we were doing using to
9 identify private drinking water wells. We actually sent out
10 over 1200 letters to folks that were -- that own property on
11 Van Etten Lake and then properties along Van Etten Creek and
12 then south of the base where the residential area is south
13 of the old residential area on base.

14 Again, the goal of that is to try to identify
15 anyone who may be in the direct line of the groundwater
16 plumes as we know them now that may still be using their
17 well for drinking water and someone who hasn't been sampled
18 by the State. So we have -- like Steve said, we have their
19 data. So we're taking the responses that we get from the
20 well inventory, putting those into a database, comparing
21 those to see if they've already been sampled by the health
22 department.

23 If they have been sampled, we're setting those
24 aside. We're looking for folks who have not been sampled
25 yet but who are still using their wells as drinking water

1 that are in those specific zones that we're looking at.

2 We have -- as much as you guys are aware, the work
3 that we're doing on the east side of Van Etten Lake south of
4 Van Etten Lake and Van Etten Creek, that is all offsite
5 property so we have to have access agreements to install
6 piezometers or install wells on those pieces of property.

7 We have recently gotten access agreements for the locations
8 that we need. I think there may be one outstanding
9 location, but everything else we have been able to get
10 access agreements for. So we're really excited that we have
11 been able to move forward and get those access agreements
12 signed. So next slide, please.

13 So the ongoing activities. Like we've already
14 said, the transducer data, we've installed those transducers
15 and those will be left in those wells for a year. So we're
16 already into that a couple of months, so over 10 more months
17 we'll be looking at that transducer data. We talked just a
18 minute about the monitoring wells along the river. Again,
19 weather dependent and the weather's not really cooperating
20 with us right now. The monitoring well sampling will be
21 completed by the end of February. All of our activities
22 will be done by the end of February.

23 We are still receiving analytical data from the
24 lab for the samples that we have submitted early January.
25 We're still waiting on getting that data back. We are

1 evaluating all of the data that has come in already and the
2 new data and trying to pull all that together. The
3 conceptual site model is being updated with all of our new
4 data as we collect it.

5 As we finish up our last bit of groundwater
6 sampling, we'll still be getting some of that final
7 groundwater data in up into March and we'll get that data
8 validated and then we'll be sharing that in the next RAB
9 meeting, but we'll have all the data by the end. So
10 everything will be incorporated into the CSM which will be
11 part of the final -- of the RI report.

12 Human health and ecological risk assessments are
13 underway. We're providing the data to the risk assessors as
14 it is validated. So they are looking at that to evaluate
15 risks and I think we're probably looking at -- and, Steve,
16 if this has changed you can -- you can correct me. But
17 we're looking at maybe at the next RAB doing a focus for
18 the -- the risk assessment so that we can have those folks
19 come in and give you guys an update on how that risk
20 assessment is proceeding, the methods that they're using and
21 how they're moving forward with that.

22 And like I said, the draft RI report that we're
23 going to issue out will include the updated CSM with all of
24 the new data and the risk assessments for both human health
25 and ecological. And that's anticipated to be delivered to

1 the draft this summer -- or to the Air Force -- sorry --
2 this summer. And I think the next slide, I think that's it.
3 Or map scheduling.

4 We're going to move on to the Aircraft Alert Area
5 real quick. I just have a couple slides here. Not much has
6 changed since the last RAB. So just real quickly, the Air
7 Force is reviewing the interim record of decision which
8 includes the responsiveness summary to the comments that we
9 received from the public and the RAB on the proposed plan.

10 The new monitoring well data that we have
11 collected during the RI is being evaluated and to see if it
12 has an effect on the IRA that we're planning over there. So
13 we still -- because we have collected new data from interim
14 maintenance and we're incorporating that. And the
15 construction is anticipated to start this summer for that,
16 so not a whole lot of updates logistically on the Aircraft
17 Alert Area. Next slide, please. Yes?

18 MR. MARK HENRY: Sorry.

19 MS. PAULA BOND: You're supposed to wait until the
20 end, Mark.

21 MR. MARK HENRY: Yeah, I know, but I'm --

22 MS. PAULA BOND: That's okay. What you got?

23 MR. MARK HENRY: -- I'm impatient. The Alert
24 Aircraft Area, I had heard a rumor that what was currently
25 the thinking of the Air Force as a little bit larger scope

1 than was originally presented to us. Is that true or not?

2 MR. STEVE WILLIS: It is. We -- we had some vast
3 data. We thought the plume was a higher concentration and
4 bigger. But we've put in permanent monitor -- monitoring
5 wells and they didn't support that vast data and so we
6 re-sampled the wells to confirm the initial results. And so
7 what we thought might be a larger, higher concentration
8 portion of the plume in fact does not exist. So the maps
9 and the -- and the posters in the back accurately portray
10 what we believe the plumes look like now.

11 MS. PAULA BOND: So what we have on the slide now
12 is the one year outlook schedule. This hasn't changed a
13 whole lot from the last RAB meeting. We have the RI field
14 sampling and the transducer monitoring which we'll carry out
15 for a year. We've got that rolling through the rest of the
16 year. We'll be doing the RI report and getting that to the
17 Air Force. We've already started that actually, and we'll
18 be getting that to the Air Force later on this year. The
19 proposed plan for the Aircraft Alert Area, that is all
20 already complete.

21 The remedial design/work plan is in the final
22 stages there. And then the ROD, kind of goes out we're
23 looking here at May, hoping to get that wrapped up sooner.
24 But if that carries out that has -- we -- we built some
25 float into the schedule here. The proposed plan public

1 meeting, you know, that happened back in October.

2 And then the Three Pipes Ditch, even though the
3 pilot study was canceled, we are still looking at doing some
4 monitoring in Three Pipes Ditch to support some other
5 things. So even though we're not doing the pilot study,
6 we're still collecting some data. We still have the rain
7 gauge out there, we still have the flow meters out there,
8 we're collecting that data, so -- and we'll continue to do
9 that at Three Pipes Ditch. Next slide, please.

10 Five year outlook. To give you a little bit of a
11 broader perspective on the way things are going to -- we see
12 folding out as we move along. Again, this hasn't changed
13 very much since the last RAB. We're still looking to get
14 the RI report finalized the first quarter of 2025, and then
15 move forward with the feasibility study proposed plan and
16 all the way out to the -- the final remedy, which is 2027.
17 The schedule for the Aircraft Alert Area, the planning and
18 construction, we've got this going through the fourth
19 quarter of '24.

20 So we plan to have Aircraft Alert Area up and
21 running by the end of the year with construction starting
22 this spring. We've got the record of decision just
23 following through from the other end. So as soon as that
24 ROD is signed, we can get -- we can actually start
25 construction there. And then operation and maintenance of

1 Aircraft Alert Area, that will be continuous throughout the
2 next five years and that's it. I think that's all my
3 slides.

4 MR. DAVID WINN: Can we start at -- can we ask
5 questions now?

6 MS. PAULA BOND: Yes. I'm ready. Go.

7 MR. DAVID WINN: Dave Winn. I got a coup- -- I
8 got some.

9 MS. PAULA BOND: Okay.

10 MR. DAVID WINN: You said that the schedule for
11 the Aircraft Alert Area stayed the same. Is that correct?

12 MS. PAULA BOND: I said it did -- yeah, it didn't
13 change much from last.

14 MR. DAVID WINN: From the last RAB?

15 MS. PAULA BOND: Uh-huh.

16 MR. STEVE WILLIS: I think it's been pushed out
17 some.

18 MR. DAVID WINN: Yeah, it did get pushed out some.
19 Let's -- let's not -- make sure, make sure everybody
20 understands. The Alert Area is moving out, just like
21 everything else moving out; right? So it moved out almost
22 five months from when you got -- when it was originally --
23 was told would start construction on April of '24 and now it
24 looks like it's going to be moved out until further?

25 MS. PAULA BOND: Can you go -- can you go back to

1 the schedule slide? So we have the -- can you go to the
2 previous one? Sorry. Oh, sorry.

3 MR. STEVE WILLIS: Dave, you are -- you are
4 correct. We were planning to start probably late April --

5 MR. DAVID WINN: Yes.

6 MR. STEVE WILLIS: -- and it's been pushed out to
7 probably June, potentially July.

8 MS. PAULA BOND: Two months, yeah.

9 MR. DAVID WINN: Any reason why?

10 MR. STEVE WILLIS: Yeah. Several. One, we've
11 been working with EGLE on the -- as Amy said the ARARs,
12 which really are the governing documents for the discharge
13 of the system, the treatment system.

14 MR. DAVID WINN: Okay.

15 MR. STEVE WILLIS: And that process is taking
16 longer than we anticipated which is -- we can't -- we need
17 that input from EGLE before we can put together the record
18 of decision and run that through for everyone's review and
19 get it signed.

20 MR. DAVID WINN: Okay.

21 MR. STEVE WILLIS: So that's pushed us out. We've
22 had some delays with getting all -- going through all the
23 comments -- public comments on the responsiveness -- for the
24 responsiveness summary that goes in the ROD. That's public
25 comments on the proposed plan. We received quite a few more

1 public comments than we anticipated. So all that's pushed
2 out our schedule some.

3 MR. DAVID WINN: Okay. So I want to make sure I
4 understand. This IRA does not include any of the areas that
5 you just talked about that are affected by the changes,
6 the -- the changes that you made to the new information or
7 new data you found; right?

8 MR. STEVE WILLIS: So -- so the new data --
9 preliminary data indicated the plume was bigger. When we
10 got the final data, it -- it turned out it was not, so it
11 didn't really affect the IRA or the shape of the plume.

12 MR. DAVID WINN: But you're not capturing, this
13 IRA is not going to capture everything in that area?

14 MR. STEVE WILLIS: It is not going to capture 100
15 percent. That is correct.

16 MR. DAVID WINN: Okay.

17 MS. PAULA BOND: Yes, Mark?

18 MR. MARK HENRY: Mark Henry, another question.
19 From your -- maybe it's not this one, maybe it's the next
20 one. No, there it is. The RI report is not going to be
21 released for about a year yet; is that correct?

22 MS. PAULA BOND: Right.

23 MR. MARK HENRY: And so is there any way that the
24 validated data could be released ahead of time?

25 MS. PAULA BOND: Oh, I'll defer that to Steve.

1 MR. STEVE WILLIS: Just -- you just want data
2 tables?

3 MR. MARK HENRY: Data tables with soil boring
4 indicators, results, and a map that shows where they are.
5 That's all I need. Same with groundwater. The AS results
6 by sampling location, the results and a map that shows where
7 it was.

8 MR. STEVE WILLIS: Okay. I'll -- I'll look into
9 when -- when would be the soonest we could release that.

10 MR. MARK HENRY: Okay. Thank you.

11 MR. STEVE WILLIS: I -- I hesitate to give out
12 data without information and analysis to support it.

13 MR. MARK HENRY: It's validated data.

14 MR. STEVE WILLIS: Yeah.

15 MR. ARNIE LERICHE: Arnie Leriche. A question on
16 the same point. I suggest it also include the ecological
17 samples too, not just groundwater and soil.

18 MR. STEVE WILLIS: I think the risk assessments,
19 we'll probably go through that in the next meeting, the next
20 RAB meeting when they come in.

21 MR. ARNIE LERICHE: I'm talking about the
22 validated data as soon as it's been validated, just like
23 Mark asked for.

24 MR. STEVE WILLIS: The problem with -- with the
25 risk assessment data is --

1 MR. ARNIE LERICHE: It's not risk assessment.
2 That's the analysis you're going to do.

3 MR. STEVE WILLIS: Right.

4 MR. ARNIE LERICHE: He was asking for the
5 information before you --

6 MR. STEVE WILLIS: Right, but -- but there --
7 there is not published comparison data for the risk
8 assessment. So you have a bunch of data, but with -- it's
9 just data. You need an analysis of that data to know if
10 there's a risk or not.

11 MR. ARNIE LERICHE: Right.

12 MR. STEVE WILLIS: So -- so providing that data,
13 it really is no -- no value. You need the analysis to be
14 done and that's what we'll talk about in the May meeting.

15 MR. ARNIE LERICHE: And that's the same value that
16 Mark is asking for the data.

17 MR. STEVE WILLIS: Well, --

18 MR. ARNIE LERICHE: He's going to do his own
19 analysis. And for the ecological, I mean, to bring back
20 what we've been fighting for, we didn't get the Air Force to
21 sample any deer. The deer sampling by the State was
22 inadequate and it was kept inadequate. Those deer leave the
23 site and the hunters don't know which one is clean deer and
24 which one isn't and it's never been taken into account.

25 Some of the fish sampling that I asked for, Van

1 Etten Lake and Pine River tributary, it's a -- it's a river
2 with 400 square mile watershed. A large number of Steelhead
3 migrate 20 miles upstream to spawn and DNR thought of even
4 protecting that area up there as a -- a rearing area,
5 natural. So just found out by Paula that happened to kill
6 the rainbow trout, a large one in Van Etten Lake. So I'm
7 interested in those results. That's just one example and
8 the biota. We just want to know as you're progressing and
9 what you found and that's valid data and that's why I'm
10 asking.

11 MR. STEVE WILLIS: Okay. I'll look into it,
12 Arnie.

13 MR. ARNIE LERICHE: Thank you.

14 MR. DAVE CARMONA: Okay. I have --

15 MS. PAULA BOND: Yes, Dave?

16 MR. DAVE CARMONA: -- Dave Carmona, a couple of
17 questions. The projected time line for the Air Force review
18 portion of the final RI, how long is that going to be?

19 MR. STEVE WILLIS: It's going to be a large
20 report. It's going to take us several months to go through
21 it.

22 MR. DAVE CARMONA: Is it going to push us up
23 really close to the FS? In other words, will we have
24 sufficient time to comment on it before you move to the
25 feasibility study portion?

1 MR. STEVE WILLIS: So -- so I -- I don't
2 necessarily intend to wait until the RI report is completely
3 final to -- to start moving forward with the FS. We'll get
4 it to a point where we've got the input from EGLE and can
5 start moving on the FS without having the -- the RI report
6 completely final. So there will be some overlap as we
7 finalize one and start the next one.

8 MR. DAVE CARMONA: Okay. And then the other
9 question I have is what's the difference between the
10 remedial design plan for this year on slide 31 versus the
11 remedial design plan for 2026 on slide 32?

12 MR. STEVE WILLIS: I think it's just --

13 MS. PAULA BOND: It's the --

14 MR. STEVE WILLIS: -- one shows the 12-month
15 period -- period of time and the other shows the five years.
16 So it carries over into that five-year schedule.

17 MR. DAVE CARMONA: Okay. Because it's just --

18 MR. STEVE WILLIS: It's the same --

19 MR. DAVE CARMONA: -- it's isolated here, that's
20 all.

21 MR. STEVE WILLIS: -- yeah. It's the same
22 document.

23 MR. DAVID WINN: I got a question. The RI QAPP
24 addendum, the comments from between EGLE and -- and Air
25 Force, that time -- and, Amy, I'm going to ask you kind of

1 this question. There were 87 comments. Out of those 87
2 comments, 19 of them were partially resolved and then there
3 were 14 that were unresolved. In EGLE's opinion, are those
4 issues all resolved? Because a lot of them -- I should say
5 a portion of them had to do with the east side of Van Etten
6 Lake.

7 MS. AMY HANDLEY: So we just got that report back
8 last week, I believe, and I personally haven't looked
9 through every one of the responses to comments yet, but that
10 is my plan for the end of this week and next week is to go
11 through all those and see what still might be unresolved or
12 what has been resolved.

13 MR. DAVID WINN: Okay. So you still -- you still
14 don't know what's all resolved?

15 MS. AMY HANDLEY: Correct.

16 MR. DAVID WINN: Okay. So if they're still
17 unresolved and -- and there's some pretty good sizeable
18 issues in there relative to things that are unresolved, part
19 of the RI addendum, does that mean that the RI addendum is
20 not complete?

21 MS. AMY HANDLEY: So what I had mentioned earlier
22 when Kyle brought it up, some of that work may not have been
23 moved into that additional work plan data gap for the east
24 side of Van Etten Lake.

25 MR. DAVID WINN: Okay.

1 MS. AMY HANDLEY: So those comments might be
2 resolved with comment that they be addressed within this
3 data gap investigation that we're now planning. When we
4 submitted these comments originally, it was before that plan
5 had really been solidified.

6 MR. DAVID WINN: Okay.

7 MS. AMY HANDLEY: So now they might be a little
8 more -- I don't want to say leeway, but they might change a
9 little bit now that we know that that additional plan is
10 going to be happening.

11 MR. DAVID WINN: Okay. One other question I have.
12 Paula, I want to get clarification from you. The surface
13 water samples that you did or the access agreements that
14 you -- you -- you say you got of all the peaks, access
15 agreements you say you need for your investigation, those
16 are only on the southeast portion of the lake, am I correct
17 in saying that?

18 MS. PAULA BOND: Correct; yes.

19 MR. DAVID WINN: So there's nothing up the east --
20 you have no access agreements or no -- nothing up the east
21 side of the Van Etten Lake?

22 MS. PAULA BOND: We did install -- we had access
23 agreements on a coup- -- at a couple of properties on the
24 east side where we did install piezometers on the east side
25 of the lake. So we did get those finished for piezometer

1 installation.

2 MR. DAVID WINN: Okay. But that's only -- but
3 that -- you have not gotten any agreements to do any
4 testing?

5 MS. PAULA BOND: No; no. Because that sampling,
6 Dave, has been moved into the data gap investigation. So
7 those access agreements for that work will be going out
8 hopefully --

9 MR. DAVID WINN: Okay. Well, again, I want
10 everybody to understand that the east side of Van Etten
11 Lake, the investigation is not by anywhere near -- my
12 opinion, nowhere near complete. So I don't want anybody
13 getting the understanding that that this -- that this report
14 says everything's complete, --

15 MS. PAULA BOND: Right.

16 MR. DAVID WINN: -- because it's not.

17 MS. PAULA BOND: And like Steve said earlier, the
18 RI report for those areas where we have collected sufficient
19 data to move to a feasibility study, that those -- that will
20 be the recommendation for that area. If there's an area
21 that there is insufficient data to move forward or make a
22 recommendation to move to a feasibility study, that will be
23 recommended for a data gap and that's where the data gap
24 investigation will kind of revolve around what we identify
25 in the RI. So, yes, Cathy?

1 MS. CATHY WUSTERBARTH: All right. Speaking of
2 data gaps. Testing the aquifer underneath the lake. I am
3 requesting that the Air Force get a proposal on the cost of
4 what that project would be.

5 MS. PAULA BOND: Okay. Do you want -- are you
6 asking for that to be an action item?

7 MS. CATHY WUSTERBARTH: Yes, please.

8 MS. PAULA BOND: Yes. Dave?

9 MR. DAVE CARMONA: So another question about the
10 schedule. You've kind of hinted at it all evening that
11 there's going to be a lot of overlap between the RI final
12 report, the feasibility study, the ROD, that this is all --
13 how malleable is this schedule?

14 MS. PAULA BOND: So there -- there is float built
15 into the schedule. And like Steve said, the RI report is
16 going to be a very large document so I don't want folks to
17 think that you're going to be able to take this document
18 and, you know, over a weekend, you know, read it. It's not
19 going to happen. It will be thousands of pages. So it's
20 going to take the Air Force -- it's going to take us a long
21 time to write it, it's going to take the Air Force a long
22 time to review it, and then when it goes to EGLE, it's going
23 to take them some -- a long time to review it, too.

24 So depending on those review cycles and obviously
25 we're building that into the schedule, but you never know,

1 you know, what can happen with this review or that. It's
2 going to be a big document. It's going to take some time
3 and that's why we have that going out from 2025, so --

4 MR. DAVE CARMONA: So my concern is the
5 feasibility study requires you to have a completed and
6 approved RI so that you can -- no?

7 MS. PAULA BOND: No.

8 MR. STEVE WILLIS: No; no.

9 MR. DAVE CARMONA: Then how can you evaluate the
10 remedies that you want to look at and determine what is
11 feasible and what is not feasible? You have to have
12 approved data to figure that out. So how does that happen?
13 The appearance is -- is that "Oh, we didn't get this data so
14 it's not feasible because there's three decisions you can
15 make. We can do it, we can do it and get it reviewed, or
16 we're not going to do it." So how does that work? Because
17 the appearances with all this slippage and overlap and you
18 only have a six-month gap for this plan for the feasibility
19 study, it's like we're going to move right through the ROD
20 then. So --

21 MS. PAULA BOND: No. That's a -- that's a great
22 question. So the way that we looking at when we move from
23 an RI to the feasibility study, so we're looking at a lot of
24 different areas across the base. So the base -- we've done
25 a base-wide RI. So we have multiple areas that we're

1 looking at on base. And like I said, for -- and I'm just
2 making this up. Like the KC135 area, we have enough data,
3 we have soil data, we have groundwater dat- -- we have
4 everything that we need for the KC135 area. We can push
5 that to a feas- -- to the feasibility study. It's ready to
6 go. We can evaluate alternatives.

7 So we -- we know that and once we write that in
8 the RI, the Air Force takes a look at it, then we send it
9 over to EGLE, as soon as EGLE looks at that, we can have a
10 conversation and say, "Hey, are you guys" -- you know, there
11 may be this particular nuance or that one that we may talk
12 about, but in general do you agree that this one is ready to
13 move forward? And then we can push that -- we can already
14 start working on that for the feasibility study. So there's
15 multiple areas, so it's not kind of like an all -- it all
16 has to go. We can start doing individual areas for the
17 feasibility study as we recognize we've got that data.

18 So there will be some overlap in there. We're not
19 going to have to have EGLE sign or agree to everything in
20 the RI report before we start working on the feasibility
21 study.

22 MR. DAVE CARMONA: So the reality since this is
23 much larger than the QAPP addendum, which took us the better
24 part of the year to get reviewed and approved, you're
25 looking possibly at a couple years?

1 MS. PAULA BOND: It's really hard to say. Like I
2 said, you know, we've built some time into the schedule, but
3 it just depends on the Air Force and EGLE's review time to
4 do that. And I think everybody understands the importance
5 of this and everybody is going to be focused on it to try to
6 get it done to move forward because then we can move to the
7 next step and that's the goal is to continue this -- this
8 project moving forward as efficiently as we possibly can.

9 MR. DAVE CARMONA: So that leads to my next
10 question. Are you and Steve going to be given the
11 administrative help you were promised to move this process
12 forward? Has that begun to happen?

13 MR. STEVE WILLIS: So that's actually more
14 technical help. And, yeah, we've got the resources to
15 review the document.

16 MS. PAULA BOND: Arnie?

17 MR. ARNIE LERICHE: Arnie Leriche, Community RAB.
18 Steve, a couple of bullet things as probably an action item
19 regarding these time schedule charts. Number one, the pilot
20 study was canceled in August. I suggest you take it off
21 this chart, make it a footnote that it was started,
22 whatever. She said that analyses, you're going to use some
23 of the data --

24 MR. STEVE WILLIS: Still -- we're still collecting
25 data.

1 MR. ARNIE LERICHE: Okay. But that's a
2 footnote --

3 MR. STEVE WILLIS: That we can use for an IRA
4 that --

5 MR. ARNIE LERICHE: -- that confuses people and
6 the public. It's never going to be an IR- -- rarely do
7 these pilot studies become an IRA in the short period of
8 time. It's not the intent.

9 MR. STEVE WILLIS: Yeah. No, we just provide us
10 dates that are familiar, dates. You're right.

11 MR. ARNIE LERICHE: Exactly. So don't put it in
12 the same area of the ones that are really critical to us
13 which are the IRAs and the budget polling. So that's why I
14 suggest you make it a footnote. This one has been bugging
15 me a long time, ever since the pilot study was talking
16 about. And for both the five year and the one year outlook,
17 can you add the public will be able to see those products,
18 probably toward the end of those bars -- those schedule
19 bars?

20 MR. STEVE WILLIS: Which -- which products are you
21 talking about?

22 MR. ARNIE LERICHE: Well, for any of these that
23 you have a one-year and a five-year schedule. You have a
24 one-year, usually a two-year outlook for the IRAs. Are
25 those then start -- have they been started for the four

1 CPAs? At least the two that you have the funding for this
2 year, you should start one of those. You've got -- all we
3 have is the schedule for the alert pad.

4 MR. STEVE WILLIS: Okay. Yeah, we can add -- we
5 can add that.

6 MR. ARNIE LERICHE: Okay. If you can indicate two
7 things: when you think in that -- those time lines you're
8 going to share either data or something that the public can
9 see and then the second thing is the public review and
10 comment periods. All these time lines should include that.
11 That's critical. It's for the public. And if you think you
12 don't want to commit to the start, make it a dashed
13 indication, it's a goal. But you can slide on those kind of
14 things. So that -- that's -- that's it. Do you need me to
15 write something up on that or maybe we'll --

16 MR. STEVE WILLIS: No, I -- I think I've got it.

17 MR. ARNIE LERICHE: Okay.

18 MR. STEVE WILLIS: We can talk -- we can go
19 through. I'll write something up and we'll talk through it,
20 the action item. The -- make sure I captioned it right.

21 MR. ARNIE LERICHE: Thanks.

22 MS. PAULA BOND: Mark?

23 MR. MARK HENRY: Mark Henry. I have two
24 questions, please. You had indicated that the USP QAPP
25 addendum work was going to be done, disconnected from the

1 rest of the RI. Is that going to be about, like, right here
2 on this chart?

3 MS. PAULA BOND: Yeah. The schedule for the data
4 gaps I'm not sure of. I'll have to defer that to Steve.

5 MR. STEVE WILLIS: Yeah. This is -- no; no. I
6 made a note to add the data gap investigation to this slide.

7 MR. MARK HENRY: Okay. The other question that I
8 had is, it may not matter much, but you installed a bunch of
9 piezometers and monitoring wells for your transducers. Were
10 those sampled for PFAS?

11 MS. PAULA BOND: Yes, we did -- number one, we did
12 vertical aquifer sampling for all the monitor -- monitoring
13 wells that we installed. For the piezometers, we did not do
14 vertical aquifer sampling, but we did -- we have sampled the
15 piezometers that we've installed for PFAS.

16 MR. MARK HENRY: Do any of them have contamination
17 that is above what we've seen in the residential wells over
18 that area?

19 MS. PAULA BOND: I would have to check the data
20 for sure. It's on the figures back there in the back for
21 all the piezometers we have data. So they're -- it's on the
22 maps back there.

23 MR. MARK HENRY: Okay.

24 MS. PAULA BOND: I do not believe that anything
25 was over our screening criteria in the piezometers with the

1 exception of maybe one that may have been just barely over.
2 But we'll have to check the maps to make sure. But there
3 weren't very many. I know the piezometers on the east side
4 of the lake they did not exceed on the east side for sure.

5 MR. MARK HENRY: Okay. Thank you.

6 MS. PAULA BOND: You're welcome. Yes, Dave?

7 MR. WILLIAM GAINES: Bill Gaines.

8 MS. PAULA BOND: Oh, I'm sorry, Bill.

9 MR. BILL GAINES: Could you please -- slide 21,
10 please?

11 MS. PAULA BOND: Yeah. Slide 21. Okay.

12 MR. BILL GAINES: All right. We talk about
13 stepouts.

14 MS. PAULA BOND: Uh-huh.

15 MR. WILLIAM GAINES: These soil samples, if you --
16 if you stepped out to determine where the over contamination
17 is, why aren't there green circle -- or groomed samples
18 around the red samples, fire training area into the runway?

19 MS. PAULA BOND: That's a great -- great question.
20 So in the fire training area here and then to the north of
21 the fire training area, these are the sludge spreading
22 areas. This is where we know that they sprayed sludge. We
23 noted they -- we don't have any documentation that there was
24 any sludge spreading in between the runway and this taxiway
25 down here so we stopped at that taxiway. And then moving to

1 the south -- you can see this is a great example with
2 stepouts. We collected the sample here and then extended
3 our criteria. We went this way, we went this way, all the
4 way to the end of the airport and then we went to the north.
5 So those are green. So this was as far as we could go here.
6 So what we are doing with the nature and extent -- and this
7 is kind of the way we look at it when we do the nature and
8 extent of something. And if you guys remember from the UMP
9 QAPP how we were determining how far we step out and then
10 what the end was, if it was within a certain distance.

11 Everything, if we have a red here -- and this is
12 as far as we can go. So we're assuming that everything from
13 these green ones down to these red ones all along this
14 sludge spreading area because we know where that happened
15 and we know that's the source, all of that is red in there.
16 So we went to the end of the runway. We don't think that
17 they went over into the woods, you know, outside of the
18 airport over the fence, so we stopped at the fence there for
19 the sludge spreading area on the runway.

20 Everything in the fire training area, all of these
21 red samples, we know this whole area is impacted here. And
22 then you can see as we go, we have green over here at the
23 BOA. These are surrounded by -- it's a little difficult,
24 but those are surrounded by green ones here. Up at DRMO,
25 the scale, there are green ones surrounding everything up

1 here.

2 MR. BILL GAINES: And I'm not -- I'm not
3 questioning those at all.

4 MS. PAULA BOND: Uh-huh. Yeah.

5 MR. BILL GAINES: But "we think" is not an answer
6 to "we tested and we're sure."

7 MS. PAULA BOND: Right.

8 MR. BILL GAINES: "We think" is not an answer that
9 I am willing to accept. Fair?

10 MS. PAULA BOND: Bad choice -- bad choice of
11 words, yes. The area here at the end of the runway, the
12 sludge spreading stopped here and that's where the sample
13 stopped. We know all of this is impacted in here.

14 MR. BILL GAINES: So --

15 MS. PAULA BOND: For the risk assessment, that's
16 the way this is going to be. This is all going to be
17 handled all in here.

18 MR. MARK HENRY: And so are you assuming that this
19 area in here is clean? Is that what I'm hearing without
20 guessing it?

21 MR. BILL GAINES: Yes.

22 MS. PAULA BOND: Yes. We stopped at the taxiway
23 here because we know this is where they did the sludge
24 spreading -- sludge spreading.

25 MR. BILL GAINES: So you're totally relying on

1 historical data and -- to determine the extent of where
2 you're going to -- you're going to -- you're going to take
3 action?

4 MS. PAULA BOND: If we had -- oh, sorry. Go
5 ahead.

6 MR. BILL GAINES: It -- it really seems to me that
7 you ought to have tests to show that your historical data is
8 accurate and that, for example, there hasn't been surface
9 water that carried contamination into the soil and -- and
10 spread it past where the sludge was. I mean, that -- that
11 looks like an incomplete investigation to me. If you could
12 help me understand why it's truly complete, I'd appreciate
13 it.

14 MS. PAULA BOND: Well, that, that is a great
15 question. And what we're trying to do, again, with this
16 area where we have the reds that we know were over, we know
17 where the sludge was spread in this area and that's what the
18 source of all of these red dots are in here. So we've
19 sampled all the way from the end of the apron here all the
20 way down to the end over here. So we have samples all along
21 there. So --

22 MR. BILL GAINES: But -- but there aren't any
23 samples outside of those areas that are green.

24 MS. PAULA BOND: There are no -- that's right.
25 There are no samples in the center here because we know they

1 did not spray the sludge here. This area right here was one
2 of the crash areas where --

3 MR. BILL GAINES: But maybe is --

4 MS. PAULA BOND: We can take that back as a
5 discussion item.

6 MR. BILL GAINES: I -- it -- it seems to me that
7 that's an incomplete investigation with my understanding of
8 stepout.

9 MS. PAULA BOND: Well, but -- yeah, we can take
10 that as a discussion -- back as a discussion and get back to
11 you on --

12 MR. DAVE CARMONA: So, Mike, did you dig up the
13 aggregate underneath that portion of the taxiway?

14 MR. MICHAEL MUNSON: No, just along the edge of
15 the taxiway.

16 MR. DAVE CARMONA: Just along the edge. And it
17 sampled negative?

18 MR. MICHAEL MUNSON: Yes; yes. Yeah, all that --
19 all the stuff that -- that we had the contractor do to
20 touch, we made sure that -- that we had it checked.

21 MR. KYLE JONES: Paula, I have a series of
22 questions outside of this particular issue, but I -- these
23 are soil samples we're talking about --

24 MS. PAULA BOND: Right.

25 MR. KYLE JONES: -- and soil doesn't migrate,

1 groundwater does. And so that fire training area is the
2 FT02 groundwater I- -- or IRA; correct?

3 MS. PAULA BOND: Uh-huh.

4 MR. KYLE JONES: And so whatever effectiveness or
5 efficacy that IRA has for stopping the PFAS from the soil
6 that's leached into the groundwater and is migrating away,
7 it -- whatever is being caught is being caught. So my
8 question then is when you get to a feasibility study, the
9 ROD, and the final remedial design and remedial action,
10 whatever remedial action has to be taken with respect to the
11 soil, is the plan to continue to take additional samples to
12 figure out how much soil it needs to be addressed --

13 MS. PAULA BOND: So --

14 MR. KYLE JONES: -- during the RDRA or how --

15 MS. PAULA BOND: Right; yeah. No, that's a great
16 question.

17 MR. STEVE WILLIS: And that's --

18 MS. PAULA BOND: Oh, go ahead, Steve.

19 MR. STEVE WILLIS: Yeah. I was going to say
20 that's standard in any remedial design is you'll collect
21 additional data if you're going to do a soil excavation.
22 You'll take additional soil. You know, this is a nature and
23 extent. This wasn't defining it. I think somebody made the
24 analogy shovel versus spoon yesterday. When you're actually
25 going to start digging up contaminated sco- -- soil, you

1 want to delineate to the spoon level to make sure you get it
2 without digging up a bunch of clean soil.

3 MR. KYLE JONES: Right. No, I -- that's right.

4 MR. STEVE WILLIS: So -- so there'll be a lot more
5 investigation done when you're actually going to -- if it's
6 a soil excavation to -- to determine that. If we're going
7 to do some other type of soil remediation, you'd still need
8 that level of detail. So, yeah, there -- there will -- we
9 will continue to do investigation work out here for awhile.

10 MR. KYLE JONES: Yeah. Okay. So I -- clearly
11 that was not at all evident to the public, because when you
12 talk about a nature and extent, the extent is the extent and
13 you don't have the full extent of the soil.

14 MR. STEVE WILLIS: Well, we -- we have the broad
15 extent. We don't have the mi- -- the -- the micro --

16 MR. KYLE JONES: You're right. The shovel versus
17 spoon.

18 MR. STEVE WILLIS: Right; right.

19 MR. KYLE JONES: We understand that analogy and it
20 makes sense now. It would have been really helpful to know
21 that fact, that you were going to go get to the, you know,
22 spoon level of -- of contamination detail.

23 MR. STEVE WILLIS: But if -- if we do the risk
24 assessment and the risk assessment doesn't identify the
25 unacceptable risk for some of the contaminated soil onsite,

1 then we may not take an action on it and we wouldn't need
2 that spoon level of detail because we're not going to take
3 an action. We need to know what the action is to know what
4 level of detail of -- of results --

5 MR. KYLE JONES: Yes. No. And, again, that is --
6 that is, that makes perfect sense, Steve. It just wasn't
7 evident to the public.

8 MR. STEVE WILLIS: Okay.

9 MR. KYLE JONES: So do you guys have questions on
10 this issue still because -- okay. Go ahead.

11 MR. ARNIE LERICHE: Arnie Leriche. Got a question
12 about Clark's Marsh, the real Clark's Marsh not where the
13 IR -- where the FT02 is. But we have one CPA -- an IRA
14 that's going to be installed into Clark's Marsh and that's
15 already been somewhat approved by Forest Service; right?
16 There's a plan. So I know it's -- the ground's got to be
17 frozen, but, like, whatever. Okay. So when that happens,
18 what's the plan for sampling?

19 That would serve two purposes. One is the nature
20 and extent in that whole plume area or as much as the Forest
21 Service will let you go to the sample, but also to support
22 the design of the IRA.

23 MS. PAULA BOND: So a couple things there. I'm
24 not really familiar with --

25 MR. STEVE WILLIS: Paula? I'll take that.

1 MS. PAULA BOND: Oh, go ahead. Go for it.

2 MR. STEVE WILLIS: Yeah. And so, yeah, you're
3 right, Arnie. That's going to be a big challenge to collect
4 the data required to implement that IRA. There's a lot of
5 data gaps. You know, you can look at the posters in the
6 back even here. We don't have a lot of data in Clark's
7 Marsh just because it's -- you can't down in there with
8 heavy equipment and do soil borings or drill and put in
9 monitoring wells just because of the wet conditions. So it
10 is going to be a big challenge to collect the required data.

11 MR. ARNIE LERICHE: Right. And it's the most
12 mixed up geologic site that I've seen anywhere because of
13 the time line and the oxbows, the river condition to
14 (indiscernible). Okay. But how about down gradient from
15 FT02? There's never been any talking about the sediment
16 there, how contaminated is it, how much does it hold the
17 PFAS, how much does the PFAS transform itself into other
18 PFAS's where it breaks down.

19 MR. STEVE WILLIS: Yeah, breakdown products.

20 MR. ARNIE LERICHE: Yeah. And I think there is
21 some opportunities and I don't know if you've looked at it,
22 but that whole general question is what's the plan? Because
23 I consider Clark's Marsh sediment as a secondary source.
24 It's going to be emitting long into the future. And I don't
25 know what the solutions are, but maybe some of the natural

1 ones like the one you're going to put in the wastewater
2 treatment plant plume is a potential option, but at least
3 know what's there.

4 MR. STEVE WILLIS: Right.

5 MR. ARNIE LERICHE: Okay? The dike I would think
6 you'd be able to get a drill right there, if the Forest
7 Service would let you be able to go five feet, ten feet
8 beyond where the dike, you know, where the boom --

9 MR. STEVE WILLIS: Yeah. There's definitely areas
10 that you could get down in there, but there are areas that
11 we cannot.

12 MR. ARNIE LERICHE: Right; right. But do what you
13 can. Just because you can't do what you want to in this
14 nature and extent, at least do what you can because you
15 never know when the next surprise is around the corner.

16 MR. STEVE WILLIS: Yeah. We've done -- if you
17 look at the groundwater investigation map you'll see we've
18 worked with EGLE and put quite a few wells down in the -- in
19 the Clark's Marsh area, even over on I guess what you guys
20 refer to as Tucker Swamp between the fire training area and
21 the Three Pipes. So in areas we can get to, we -- we've
22 tried to get down as far as we can and put in monitoring
23 wells or collect samples, so --

24 MR. ARNIE LERICHE: Right. But you're not
25 recognizing that there are areas where you have figured out,

1 again, approval to go, but it's still a potential issue but
2 you don't talk about that, you don't show it on your maps.
3 And that's -- that's where we don't have the confidence as
4 Bill was pointing out in what you're looking at. You've got
5 a lot more in your heads than you put on paper.

6 MR. STEVE WILLIS: Yeah, the -- the maps have all
7 focused on results, what data we've collected, but, we --

8 MR. ARNIE LERICHE: That's huge.

9 MR. STEVE WILLIS: -- yeah, you're right. We
10 haven't -- we haven't identified, you know, data gaps. You
11 know, we're going to make --

12 MR. ARNIE LERICHE: But that's -- you're past the
13 time that it should have been, I think, the RI. Okay. So
14 I'll get off that one. The next one is -- if you could --
15 this is soil investigation. We heard that the soil
16 investigation around the air strippers that control the
17 VOC --

18 MR. STEVE WILLIS: Right.

19 MR. ARNIE LERICHE: -- sent droplets possibly of
20 PFAS from the groundwater out there and deposited and on the
21 east side where you're going to do some foam on the shore --
22 shoreline on the east side, that was delayed because the
23 State wanted a different sampling regime. What's the
24 schedule of -- of that?

25 MR. STEVE WILLIS: That'll all be part of this

1 data gap investigation we've been talking about.

2 MR. ARNIE LERICHE: And you've got a time line?

3 MR. STEVE WILLIS: I don't yet. I'm working on
4 it.

5 MR. ARNIE LERICHE: Okay. And you'll inform us?

6 MR. STEVE WILLIS: Sure.

7 MR. ARNIE LERICHE: Doesn't have to go --

8 MR. STEVE WILLIS: I think --

9 MR. ARNIE LERICHE: -- yeah.

10 MR. STEVE WILLIS: -- yeah, somebody asked that we
11 put that on the schedule.

12 MR. ARNIE LERICHE: Okay.

13 MR. STEVE WILLIS: Scott, did you have --

14 MR. SCOTT LINGO: Yes, sir. Scott Lingo,
15 Community RAB. I guess my question is, is talking about
16 data gaps and looking at the map and the red dots and the
17 green dots. In between the runway and the taxiway there's
18 been no testing done there. Why wouldn't they continue to
19 test towards the runway until they get green dots that line
20 up with what they have on the approximately north side of
21 the runway? From the taxiway heading to the runway to -- to
22 find out what's actually there?

23 All the other locations within the map seem to
24 have a concentration of red until they hit that green safe
25 zone and that's pretty obvious that we don't have it there

1 as Bill had brought up. And it's runoff, it's hard surface.
2 The water is going to go somewhere and I would like to see
3 it as a action item that we do some testing in that big open
4 area.

5 MR. STEVE WILLIS: Okay. I'll look into that. I
6 mean, our understanding of historical activities where a
7 release would have occurred is that the sludge spreading
8 stopped at the taxiway.

9 MR. SCOTT LINGO: Yeah, but -- but it moves
10 differently than just the sludge spreading, you know.
11 There's surface water, there's stuff underneath, there's the
12 airborne component, there's just so many things that could
13 take it there. And if you're looking at the area, it just
14 seems kind of silly that there aren't any dots in that area.

15 MR. STEVE WILLIS: Yeah.

16 MS. PAULA BOND: Dave has been waiting.

17 MR. DAVID WINN: Oh. I just have one action item.
18 As stated earlier in your presentation, the IRA for the
19 DR- -- DRMO and the LF30/31, you have the funding for that;
20 correct, Steve?

21 MR. STEVE WILLIS: Yes.

22 MR. DAVID WINN: And that's going to start --
23 you're going to award a contract; right?

24 MR. STEVE WILLIS: Correct.

25 MR. DAVID WINN: Can that be added to the time

1 line so that we understand when the time line is going to
2 be, when the work plan's going to be generated, when
3 we're -- if in fact we're going to have a public comment on
4 that IRA and then when the design and construction's going
5 to be done? So, again, it's another item that needs to be
6 tracked on the schedule. So I'd like to see it as an action
7 item, please.

8 MR. STEVE WILLIS: Yeah. We can add the -- the
9 project as a -- pretty much as a long solid bar at this
10 point. Until I have a contract and a contractor and have
11 negotiated a schedule for all that work, you know, I can't
12 really put it on here. But I can show you broad, you know,
13 we'll award a contract here and it should take approximately
14 X number of years to get the project completed. But the
15 individual milestones, work plans, field work, reports, I
16 won't be able to provide that until I actually have a
17 contractor on board.

18 MR. DAVID WINN: When do you plan on having a
19 contractor on board?

20 MR. STEVE WILLIS: This year.

21 MR. DAVID WINN: That's 12 months. Any idea --

22 MR. STEVE WILLIS: No. I'm sorry. This fiscal
23 year. So by the end of September.

24 MR. DAVID WINN: Okay.

25 MR. ARNIE LERICHE: Steve, that basically is the

1 one that I asked for, so my --

2 MR. STEVE WILLIS: Yes; yeah; yeah; yes.

3 MR. ARNIE LERICHE: -- it's got both our names on
4 it.

5 MR. STEVE WILLIS: I've already got my notes
6 and --

7 MS. PAULA BOND: Kyle?

8 MR. KYLE JONES: On this particular issue, again,
9 pretty -- let's say we -- we see you haven't sampled in that
10 direction. We -- we just established that you will sample
11 in that area once the remedial design or soil remediation is
12 established. But if there is additional PFAS in that area
13 that hasn't been tested yet, the impact to the community,
14 though, is -- is by leaching vertically downward to the
15 aquifer and the aquifer migrating away from the base;
16 correct? And that's being caught at least to the degree
17 that we -- that is effective FT02; correct?

18 MS. PAULA BOND: (Nodding head)

19 MR. KYLE JONES: Okay.

20 MR. BILL GAINES: To the degree that it's
21 effective.

22 MR. KYLE JONES: Well, that we -- we had a
23 discussion on that yesterday.

24 MR. BILL GAINES: Yes.

25 MR. KYLE JONES: Okay. I -- I have a series of

1 questions that I'm just going to leaf through here. You --
2 you talked about seep samples. Can you just explain to the
3 public what that -- what's a seep as opposed to a soil or a
4 groundwater sample?

5 MS. PAULA BOND: Sure. The seep sample is -- is,
6 it's where the groundwater daylights at the surface. So if
7 you have -- like we were talking in the technical session
8 yesterday, there is a long pond -- it's really hard to see
9 here.

10 MR. STEVE WILLIS: Paula? Paula?

11 MS. PAULA BOND: Yeah.

12 MR. STEVE WILLIS: Wouldn't Iargo Springs be a
13 large example of a seep?

14 MS. PAULA BOND: Yeah.

15 MR. STEVE WILLIS: I mean, I think most -- most of
16 the community is probably familiar with Iargo Springs. The
17 groundwater is coming out of the side of the hill there.

18 MR. KYLE JONES: Yeah; yeah. Okay.

19 MR. STEVE WILLIS: Yeah.

20 MR. KYLE JONES: I guess -- so that's -- but it
21 can be --

22 MS. PAULA BOND: Yeah.

23 MR. ARNIE LERICHE: But it can be under water,
24 too.

25 MR. STEVE WILLIS: It could be.

1 MS. PAULA BOND: Right.

2 MR. ARNIE LERICHE: Okay.

3 MR. STEVE WILLIS: But it's where groundwater's
4 coming out of the ground to the surface as Arnie indicated.
5 It could be coming into the ground -- into the water or
6 typically on the surface.

7 MR. KYLE JONES: Steve, you mentioned, and Paula,
8 you mentioned the extreme challenges of collecting sediment
9 and groundwater and surface water data in the marsh and that
10 I think we all can understand that. Do you think that
11 samples though of those media need to be taken in that area?

12 MR. STEVE WILLIS: At some point we'll -- we'll
13 have to do something, yeah.

14 MR. KYLE JONES: And what's the something?

15 MR. STEVE WILLIS: Excuse me. For the RI we will
16 make the assumption that the contamination is present in
17 the -- in the whole marsh until we have data to refute that.

18 MR. KYLE JONES: Okay. All right. Is it possible
19 you would just assume that it's always going to be there
20 and -- and take care of the migrating water?

21 MR. STEVE WILLIS: No. With what?

22 MR. KYLE JONES: Migrating groundwater.

23 MR. STEVE WILLIS: Oh.

24 MR. KYLE JONES: Capturing the --

25 MR. STEVE WILLIS: Okay. All right. All right.

1 That's something we'll have to evaluate.

2 MR. KYLE JONES: Yeah; okay.

3 MR. STEVE WILLIS: I don't have an answer right
4 now.

5 MR. KYLE JONES: I mean, I think others have said
6 why would you leave a significant source in place.

7 MR. STEVE WILLIS: Yeah.

8 MR. KYLE JONES: Okay.

9 MR. STEVE WILLIS: I mean, short -- short of
10 digging up Clark's Marsh, I mean, we may not be able to
11 remove the source, the PFAS that's already migrated off the
12 base for decades. It's in the marsh. We may have to catch
13 it on the other end down at the river before it gets into
14 the river, you know.

15 MR. KYLE JONES: Yes; yeah, for the next couple
16 three millenia maybe.

17 MR. STEVE WILLIS: Yeah. It's all the pump and
18 treat systems are going to operate for decades.

19 MR. KYLE JONES: Yeah. On -- on slide 24 you
20 have, Paula, you've got storm sewer sampling. What happens
21 to the storm sewer discharge?

22 MS. PAULA BOND: Do you mean where does, is it
23 going or --

24 MR. KYLE JONES: Where does it go?

25 MS. PAULA BOND: Yeah. So there's a couple of

1 different outfalls for the storm. You guys are most
2 familiar, we've done a lot of talking about Three Pipes
3 Ditch, so that's one discharge point.

4 MR. KYLE JONES: Okay.

5 MS. PAULA BOND: There is a discharge down here
6 on -- there's two discharges on Van Etten Creek. One is
7 closer. It's hard to tell on this map. This is where the
8 discharge from the central treatment system comes out over
9 here and then the discharge from the Mission Street
10 treatment plant comes out down here on the creek.

11 MR. KYLE JONES: You mentioned treatment plans.
12 Is storm water treated?

13 MS. PAULA BOND: No. That is the -- the discharge
14 from the Mission Street treatment plant.

15 MR. KYLE JONES: Yes.

16 MS. PAULA BOND: The clean water is discharged to
17 the storm sewer.

18 MR. KYLE JONES: Okay.

19 MR. MARK HENRY: The storm sewer discharges in the
20 corner of the hospital.

21 MR. KYLE JONES: Okay. So is there concern that
22 PFAS is getting into the storm sewers other than by escaping
23 the -- the treatment -- those two treatment plants --

24 MS. PAULA BOND: At those two, no.

25 MR. KYLE JONES: Well, okay. I -- I guess the

1 question is -- the bottom line question is, is there a
2 concern that PFAS is being discharged with the storm water
3 in those two locations? No?

4 MS. PAULA BOND: No. These have been sampled.
5 These two have been sampled, like, initially when they
6 put -- that was one of the reasons for actually putting the
7 treatment on the central treatment system and the Mission
8 Treatment Plant. That was why those two systems were
9 upgraded with carbon was to treat that discharge that did
10 have PFAS on --

11 MR. KYLE JONES: When you tested the storm water,
12 did you find PFAS?

13 MS. PAULA BOND: They did when the -- before those
14 systems were installed and but now the -- after or the
15 post-treatment samples -- I mean, we collected some
16 additional samples for these locations. I don't know if the
17 map's back there for surface water, too. And I don't
18 believe that these were over screened too.

19 MR. KYLE JONES: Same question with respect to
20 sanitary.

21 MS. PAULA BOND: Okay.

22 MR. KYLE JONES: Did you find anything?

23 MS. PAULA BOND: There is PFAS impacts in the
24 sanitary sewer system, yes.

25 MR. KYLE JONES: And what happens to the sanitary

1 sewer water?

2 MS. PAULA BOND: It goes to the wastewater
3 treatment plant.

4 MR. KYLE JONES: Okay. On slide 26, you indicated
5 that new piezometers were installed on the south and east
6 sides of Van Etten Lake, transducers installed to measure
7 changes in water levels, sure. What are you doing with that
8 data?

9 MS. PAULA BOND: So the transducers were put in --
10 we put in a few right before Christmas and then we just put
11 in a few more a couple of weeks after the new year. So we
12 are currently collecting that data and then we're --
13 download -- those transducers are automatically recording
14 that data. So we're going out about monthly. We were just
15 out there two weeks ago to download the transducers to get
16 the data, so now we're taking that data and evaluating it.
17 So that data right now is still in-house.

18 MR. KYLE JONES: What is your evalua- -- what
19 are -- what are you evaluating? For what purpose?

20 MS. PAULA BOND: Oh. So we are looking at --
21 transducers measure pressure which tell us the head
22 difference or the change in the water level in those
23 monitoring wells. So, for example, when the lake level is
24 raised or lowered, the surrounding groundwater also responds
25 to that higher or lower. So we are looking at the

1 difference, the higher or lower water levels in those
2 piezometers and that will tell us which way the groundwater
3 is flowing. So basically the groundwater is higher, it's
4 going to flow this way, right, and then if it's lower, it's
5 going to go this way. So that's what we're trying to do is
6 determine which way the groundwater from and around the lake
7 is actually moving.

8 MR. KYLE JONES: And how far down were those
9 piezometers and wells drilled?

10 MS. PAULA BOND: So all of the piezometers that we
11 put in we drilled down to the clay layer that we had talked
12 about. So there all -- there is a deep piezometer installed
13 on top of the clay at all of those locations.

14 MR. KYLE JONES: Is that deeper than the deepest
15 part of the lake?

16 MS. PAULA BOND: Yeah, because the lake is, like,
17 roughly 25 feet, so yeah.

18 MR. KYLE JONES: All right. And --

19 MS. PAULA BOND: So some of these are deeper.

20 MR. KYLE JONES: -- so is there -- is one of the
21 purpose -- because we -- you mentioned that there could be
22 variability depending on the elevation of the lake.

23 MS. PAULA BOND: Right; uh-huh.

24 MR. KYLE JONES: It's been contended by the
25 community that there is groundwater migration from the west

1 from the base under the lake to the east side. Is this
2 effort here or these measurements here attempting to refute
3 that?

4 MS. PAULA BOND: It will support that evaluation.
5 So all of this data is being fed into CSM, the conceptual
6 site model. So all of that is being looked at and that is
7 one of the things that we are trying to do is to support our
8 current CSM which is there is no flow completely underneath
9 the lake from the west to the east side.

10 MR. KYLE JONES: And do you -- Cathy mentioned
11 adding to the AI, the sampling in the middle of the lake.
12 Do you think that's unnecessary?

13 MS. PAULA BOND: I don't think at this point it's
14 necessary. Once we complete the transducer study, then we
15 can maybe make some decisions on that, but we're going to
16 take that back as an action item and discuss it with the
17 team.

18 MR. STEVE WILLIS: Yeah.

19 MR. KYLE JONES: At the deepest part of your
20 piezometers that are -- are below the lowest level of the
21 lake, is the water that's there affected by the variability
22 that you mentioned earlier from the -- you know, whether
23 groundwater is flowing this direction or this direction
24 depends on the level of the top of the lake, surface of the
25 lake. Is the water at the very bottom of that well affected

1 by those -- that variability?

2 MS. PAULA BOND: Yeah. So -- and that's one of
3 the things that we're trying to look at, so right now --
4 it's hard to see on the spec here. But the -- the contour
5 lines, the blue lines that you see coming around are showing
6 the groundwater flow. And if you see this little blue arrow
7 here, that is the flow of groundwater. So on the east side
8 of the lake, the groundwater flows toward the lake.

9 MR. KYLE JONES: All the time?

10 MS. PAULA BOND: That's what we're -- that's what
11 we have the transducers to measure that to see if it does do
12 it all the time or are there some periods when the lake
13 level changes that it may affect that. So that's what we're
14 trying to determine.

15 MR. STEVE WILLIS: And -- and we -- when we put
16 the transducers in -- in the area she was pointing, we've
17 got a series of three of them installed moving away from the
18 lake. So if that interaction between the lake and the
19 groundwater occurs, how far inland does it actually occur?
20 Is it the first 30 feet or is it several hundred feet
21 inland?

22 MR. KYLE JONES: Yeah. All right. So that's
23 good, too.

24 MR. STEVE WILLIS: So, yeah.

25 MR. KYLE JONES: But is it -- do you have data

1 throughout a year or two years or something to catch
2 seasonal variations in the lake?

3 MR. STEVE WILLIS: We will. They just were put
4 in.

5 MR. KYLE JONES: Oh, okay.

6 MR. STEVE WILLIS: So, yeah.

7 MR. KYLE JONES: Oh, that's right. Right before
8 Christmas.

9 MS. PAULA BOND: Yeah; yeah.

10 MR. STEVE WILLIS: Yeah; yeah. So -- so, you
11 know, we've got very little data right now.

12 MR. KYLE JONES: Okay.

13 MS. PAULA BOND: Yeah.

14 MR. ARNIE LERICHE: And how deep do they go? Do
15 they go below the bottom of the lake? Van Etten Lake?

16 MS. PAULA BOND: Yeah. Some of these we
17 encountered -- and I have to -- to verify the depths. But I
18 want to say the clay, depending on where you are and how
19 close you are to the lake, the clay is shallower. So maybe
20 35 feet deep or 40 feet deep in some locations as we move
21 farther away. Especially in the areas down here it's a
22 little bit deeper, but up here I believe it's between 35 and
23 40 feet where we installed those piezometers. But I can
24 verify that and get you guys the information on the depth of
25 clay over there.

1 MR. KYLE JONES: On slide 28. You mentioned the
2 letter campaign to verify the use of private drinking water
3 wells. That seemed to be a little bit more regional in
4 nature and not just about Van Etten Lake or am I incorrect
5 on that?

6 MS. PAULA BOND: Yeah. Actually, if you can go
7 back to that last slide that we were just looking at, the
8 transducer study? Yeah. So this doesn't cover everything.
9 But our focus area was properties along this side of the
10 lake down here, down around Van Etten Creek Road, Van Etten
11 Creek down here, and then this area down here. So that was
12 our focus area. So we sent letters to everyone because
13 we're try -- we want to maintain that information. We know
14 a lot of folks are -- on Loud Drive are on city water. We
15 know that city water was just run into a couple of areas
16 down here on Van Etten Dam Road.

17 So we're trying to capture who's on city water
18 because we still want to know that because a lot of folks --
19 and, Bill, you may if you're around, you can verify that
20 some folks were required to abandon their well when they got
21 put on city water. Some folks were not. So are those folks
22 that did not abandon their well, is it, are they still using
23 it for irrigation or how are they using that well? So we
24 want to know how folks are using those wells and if they
25 still have them. But the drinking water focus is the areas

1 down here where the plume -- we know the plume exists today.

2 MR. KYLE JONES: Do you know whether all of the
3 residents along the east side of Van Etten Lake do or do not
4 have a drinking water well?

5 MS. PAULA BOND: We do not know if all of the --

6 MR. KYLE JONES: Is that something that the
7 township knows or the county knows?

8 MR. STEVE WILLIS: Don't think so.

9 MS. PAULA BOND: We -- that's a challenge. We
10 have information from the township where they ran the lines.
11 There are some folks who chose not to hook up to city water.
12 I mean, they're not forcing people to do it. So some folks
13 are choosing not to, some folks have. There are some folks
14 maybe out there that have never reported that they've had a
15 well before to the township or the State or anybody else who
16 have not been sampled by the health department. So we're
17 also looking at the health department data to see who they
18 have seen.

19 MR. KYLE JONES: Sure. We, yeah, we heard that.

20 MS. PAULA BOND: So we're trying to take all of
21 that data and, like I said, build it into a database so that
22 we can try to figure this out. And if there are places that
23 we think, oh, we need to drive by over there, we need to do
24 a door to door to check in on to make sure -- you know, we
25 don't have any data for this location, do these folks have a

1 well or do they not if they do haven't been using it.

2 MR. STEVE WILLIS: And this -- all of this
3 investigation is not to get people in trouble.

4 MR. KYLE JONES: Of course. No.

5 MR. STEVE WILLIS: You know, they got to know.

6 MR. KYLE JONES: We're trying -- we're talking
7 about environmental protection here.

8 MR. STEVE WILLIS: Yeah. It's, you know, concern
9 for public health.

10 MR. KYLE JONES: Right.

11 MR. STEVE WILLIS: And so we need an understanding
12 of, you know, do they have a well and are they drinking it
13 and if -- if they have city water but they still use their
14 well to water their garden or their lawn and it's -- they're
15 in the middle of the groundwater plume, they're pumping
16 contaminated water out and putting it on the soil. And so
17 that almost creates --

18 MR. KYLE JONES: Into their tomatoes.

19 MR. STEVE WILLIS: Yeah.

20 MR. KYLE JONES: Yeah. No.

21 MR. STEVE WILLIS: It almost creates a new source
22 area that --

23 MR. KYLE JONES: Please, please understand these
24 questions I'm asking are not about challenging what you're
25 doing or by --

1 MR. STEVE WILLIS: I think my comment is intended
2 not so much for you, but for the broader community.

3 MR. KYLE JONES: Okay.

4 MR. STEVE WILLIS: That, you know, we're not
5 looking to get people in trouble.

6 MR. KYLE JONES: Okay.

7 MR. STEVE WILLIS: We're trying to address a
8 problem and if there's stuff going on there that we don't
9 know about, our understanding of the problem is incomplete.

10 MR. KYLE JONES: Yeah. So, I mean, to the degree
11 that one member of the RAB can make a plea to the community,
12 please cooperate with because it's only to your benefit and
13 to the community's benefit that the data are collected. Is
14 the drinking water well testing that you still have to do
15 part of this budget that you seem to have run out of money
16 with or for?

17 MR. STEVE WILLIS: So we do have money in -- in
18 the budget for the current RI to do some drinking water
19 wells simply.

20 MR. KYLE JONES: Okay. Okay.

21 MR. STEVE WILLIS: And -- but based on the
22 responses we've gotten from people, and the phone calls I've
23 gotten from people, a lot of people in -- in the area we're
24 interested in are seasonal residents and may not be back
25 until May or June. And so we may not be able to collect all

1 the information we need until this summer related to
2 drinking water. But that's not going to impact us finishing
3 the RI report.

4 MR. KYLE JONES: Okay.

5 MR. STEVE WILLIS: Because that's really a focus
6 on -- on, you know, the consumption of the water, not on
7 delineating the extent of the plume.

8 MR. KYLE JONES: Thank you for that. Let me just
9 keep -- did -- did we talk -- I kind of didn't quite catch
10 and there were questions from this side and that side about
11 adding items to the -- your Gantt charts, your time lines.
12 Did we get in there your -- the CPA IRAs? Did we talk about
13 those?

14 MR. ARNIE LERICHE: Yes.

15 MR. STEVE WILLIS: We did.

16 MR. KYLE JONES: Okay. Okay.

17 MR. STEVE WILLIS: Yeah. They -- they'll be much
18 like the -- well, yes, we did.

19 MR. KYLE JONES: Okay.

20 MR. STEVE WILLIS: And it'll be a very broad line
21 at this point with no detail until I actually get a
22 contractor and the contractor and we negotiate a schedule
23 for everything.

24 MR. KYLE JONES: Okay. Are you working on
25 contractors for the two IRAs that are currently not in the

1 budget? Can you do that?

2 MR. STEVE WILLIS: Yes.

3 MR. KYLE JONES: Okay. All right. Okay. All
4 right. So I have two sort of big kinds of questions here.
5 Steve and Paula, I took or I understood early in our meeting
6 tonight when it was when -- when folks were wondering why
7 the east side of Van Etten Lake work was being deferred
8 and -- and you basically, at least I understood you to say,
9 well, we're out of time and we're out of money and we spent
10 money doing work that the RAB had requested. Did I -- did I
11 capture -- did I characterize that right, Steve?

12 MR. STEVE WILLIS: There -- there were a number of
13 areas that based on conversations with some of the RAB
14 members, yes. We did some additional investigation. Some
15 of them proved fruitful, some of them did not. But, yes.

16 MR. KYLE JONES: So when -- and of course we --
17 when we ask for tho-, that work, --

18 MR. STEVE WILLIS: It was based on -- on
19 individual's knowledge.

20 MR. KYLE JONES: Yes. No.

21 MR. STEVE WILLIS: So we've added it and
22 investigated it.

23 MR. KYLE JONES: I understand. You're not letting
24 me finish my question. At that time did you come to realize
25 when -- when we asked for that work to be done, you agreed

1 with whatever work you did, you agreed that it needed to be
2 done properly under a remedial investigation. Did you come
3 to the realization, though, that that would preclude your
4 work on the east side of Van Etten Lake?

5 MR. STEVE WILLIS: No. It -- it happened in very
6 small increments over a period of time and I don't think we
7 really had a good -- a good appreciation of the magnitude it
8 would impact the overall plan.

9 MR. KYLE JONES: Because you know that the extreme
10 concern the community has over that site. So having that be
11 usurped by some other work that quite frankly had we known
12 that, we might have prioritized it differently. Is -- is --
13 I guess what's done is done. I would say please include us.
14 To the degree we have -- we have comments about other work,
15 either RI work, data gap work and -- and there is a
16 potential that other work has to be again deferred because
17 of budgetary reasons, we would like to know that as soon as
18 possible.

19 And we'd like to know that -- well, we would
20 encourage you as much as we possibly can to protect the
21 money for the work on the east side of Van Etten Lake from
22 further usurping. Because quite frankly as I mentioned
23 yesterday, this isn't only an environmental protection
24 issue. It's a -- it's a -- it's an issue of property
25 rights. People -- people on the east side of Van Etten Lake

1 have had their property values affected. We don't know how
2 much. I don't know that they would want to know how much,
3 but we know it hasn't gone up and likely down because of the
4 presence of the contamination from the base.

5 So this is the kind of community concern that -- I
6 mean, I think all of us go to Au Sable and this general area
7 of Iosco County is -- has been obviously impacted pretty
8 negatively over this issue that you guys are taking care of.
9 But in particular, the folks that live on the east side of
10 Van Etten Lake are -- are facing it in a very personal way.
11 And so I -- I think I just need -- I would request that
12 maybe -- maybe the Dave Carmona comment about getting some
13 extra money in June because there's a process for asking for
14 that money. You -- you put, you know, full steam ahead and
15 all your gun barrels pointed toward that to get that money
16 so you can start earlier than late '25 on the east side of
17 Van Etten Lake.

18 This is, you know, pretty big surprise to all of
19 us and, you know, it was good for you to sort of admit that
20 it didn't dawn on anybody until it was too late, but it's --
21 it's really a -- it's really a bad -- a bad outcome.

22 Second is the issue I brought up yesterday, Steve,
23 about the philosophy on installing IRAs where you are not --
24 not capturing 100 percent of the water -- groundwater, that
25 legally would need to be remediated at the final remedial

1 action stage. It's my understanding that the four CPA IRAs
2 that went through the CPA process, the design agreed to by
3 EGLE and Air Force and those consultants will capture 100
4 percent of the legally required.

5 MR. STEVE WILLIS: (Shaking head)

6 MR. KYLE JONES: You're shaking your head no.

7 MR. STEVE WILLIS: Yeah. No. If you -- if you
8 look at the maps with the plume contours, the -- the IRAs
9 proposed in the CPAs are focusing on about the same
10 concentrations all of the other IRAs at Wurtsmith have
11 focused on.

12 MR. KYLE JONES: All right. Can we have --

13 MR. STEVE WILLIS: They -- they do not address 100
14 percent of the plume.

15 MR. KYLE JONES: Well, 100 percent of the plume
16 that legally must be remediated. That's what I'm asking.
17 There's going to be parts of the plume where contamination
18 leaves -- goes beyond the -- the -- the, the traction wells
19 but isn't necessary to remediate under law; correct? Let's
20 say that the -- you're not understanding my question?

21 MR. STEVE WILLIS: I'm not -- I'm not -- yeah, I'm
22 not following.

23 MR. KYLE JONES: Okay. So -- so if this was a
24 drink -- if we're applying a drinking water standard of
25 eight or seven or nine parts per trillion and there's water

1 that is on the far edges of the plume that are at two or
2 three or four parts per trillion, you're not -- you're not
3 legally required to put a extraction well there and
4 remediate it. That's what I was saying.

5 MR. STEVE WILLIS: Yeah. We don't consider that
6 part of the plume if it's below the criteria.

7 MR. KYLE JONES: Okay. Okay. All right. I've --
8 I've heard consultants both ways. Any -- any detection is
9 part of the plume and then there's a part of the plume that
10 needs to be remediated.

11 MR. STEVE WILLIS: Yeah.

12 MR. KYLE JONES: I -- I think it would -- I really
13 think that, and the statement I made yesterday was that if
14 you were to design these IRAs and any IRA prior to the --
15 the actual final remedial design or remedial action stage,
16 to collect 100 percent of the legally required contamination
17 that is to be remediated, you could do that now. It makes
18 sense to do it now. You're protecting the community now.
19 You're not letting contamination that must be cleaned up in
20 the future to continue to affect the community. And then it
21 would be a very simple matter at the remedial
22 design/remedial action stage to say that one's done.
23 There's no more design or action to do other than what we've
24 already installed.

25 And so I'm willing to have this discussion, but I

1 also think that's required under CERCLA as a matter of law.
2 Is there a possibility that the community can have another
3 conversation with Air Force, with EGLE and those consultants
4 to talk about this issue?

5 MR. STEVE WILLIS: What type of forum are you
6 proposing?

7 MR. KYLE JONES: Any forum that -- where -- where
8 we have a live discussion.

9 MR. STEVE WILLIS: Yeah. I'm, I'm not an
10 environmental attorney, but I'm not sure your interpretation
11 is the same as ours.

12 MR. KYLE JONES: I -- I'm certain that's true
13 otherwise you wouldn't be doing it, yes.

14 MR. STEVE WILLIS: I'll talk with the folks and --
15 and see -- see what we can do to address your concern.

16 MR. KYLE JONES: Despite the fact that whether or
17 not you're right or I'm right on this -- on this
18 interpretation of the statute, it still can be done. And
19 from a logical and a -- you know, just a -- a methodology of
20 actually furthering the remediation quicker than has been in
21 the past and we fully are appreciative of all the work
22 that's happened over the last couple years to move things
23 along much more quickly than they used to.

24 But this -- even if CERCLA doesn't -- and I'm not
25 conceding this point, but even if it doesn't require a 100

1 percent cleanup of legally required contamination to be
2 remediated, it's still a very sensible thing to do. Spend
3 the money now. If you want to delay spending money, that --
4 that doesn't really sit well with the community.

5 MR. STEVE WILLIS: Yeah.

6 MR. KYLE JONES: And so logically speaking it
7 makes 100 -- in my opinion 100 percent sense to fully fund a
8 full cleanup remedy for any IRA to stop 100 percent of the
9 legally required contamination that's migrating away and
10 into the community.

11 MR. STEVE WILLIS: Like I said, I'll -- I'll look
12 into it. I'll talk to the folks, see how we can address
13 your concern.

14 MR. KYLE JONES: All right. That would be really
15 great. I -- I -- in some way I, I hope to have a -- it's --
16 it's great that the, that the Air Force announced these
17 IRAs. It's not great that the IRAs are not going to capture
18 all the contamination that's still going to continue to
19 affect the community.

20 MS. PAULA BOND: Cathy?

21 MS. CATHY WUSTERBARTH: I have a question.

22 MS. PAULA BOND: Go ahead.

23 MS. CATHY WUSTERBARTH: And I do want to backtrack
24 to the Alert Aircraft Area IRA. From what I heard you say,
25 Steve, that you -- you did some additional sampling and you

1 determined that the plume is smaller than what you had first
2 indicated?

3 MR. STEVE WILLIS: No. Basically the plume hasn't
4 changed since we designed the system. We collected some
5 additional RI data. Preliminary data indicated it was
6 bigger, but when we got the final data it turned out it was
7 not, so the size of the plume effectively has not changed.

8 MS. CATHY WUSTERBARTH: Oh.

9 MR. STEVE WILLIS: Based -- based on the design.

10 MS. CATHY WUSTERBARTH: So that -- that the plans
11 that you have, they -- if they don't capture that entire
12 plume --

13 MR. STEVE WILLIS: That's correct.

14 MS. CATHY WUSTERBARTH: -- that it's going into
15 the state campground area soak up; right?

16 MR. STEVE WILLIS: That's correct.

17 MS. CATHY WUSTERBARTH: And you don't plan on
18 capturing that?

19 MR. STEVE WILLIS: At this -- at this point we do
20 not plan to change the design.

21 MS. PAULA BOND: I think Arnie beat you, Mark. Go
22 ahead, Arnie.

23 MR. ARNIE LERICHE: Okay. Arnie Leriche. I
24 brought this up about three years ago and the issue is --
25 and I'm really concerned now is what I'm saying. You

1 mentioned that you don't know which homes on the east side
2 gave up their wells and closed off their private well and
3 which ones are continuing to use it. I raised the issue
4 that some people -- and I know of one that did, used that
5 water for their humidifier during the winter and it was not
6 the spigot that had the reverse osmosis on it. It was in
7 the laundry room that they filled it. And I even filled it
8 once without thinking and then I just -- it just dawned on
9 me. And so I talked and I just -- I got an e-mail about a
10 month ago, two months ago but I haven't connected with her
11 from DHHS. You know about that issue?

12 MS. CHELSEA GARY: Uh-huh; yes.

13 MR. ARNIE LERICHE: Did it ever make it to the
14 questioning? Can you shed any light on that?

15 MS. CHELSEA GARY: Oh. I've actually been working
16 with the local health department and EGLE on that issue as
17 far as raising awareness and things like that if that's what
18 you're asking about. How we can make residents aware of
19 this issue.

20 MR. ARNIE LERICHE: Right. But did it get to the
21 Air Force questionnaire? Who's the EGLE representative that
22 can follow up on that? Because when I read the
23 questionnaire, it sounded to me that you were just asking
24 about the drinking water and people just key in on drinking
25 water, you know, "Yes, I do use a well" or, "No; no, I don't

1 anymore. I've got municipal water." Okay. They don't
2 think about this other --

3 MS. PAULA BOND: Yeah. There, there is a question
4 on there how -- "if you are you using it, how -- are you
5 using it for drinking water, irrigation or other purposes."

6 MR. ARNIE LERICHE: "Other" is too political, I
7 mean, too open. It's got to ask because people won't think
8 of that. Older people won't ever think because they've just
9 been doing it for 30 years. So is any way that you can have
10 your people bring that to a specific, humidifier during the
11 winter? I would appreciate it.

12 MS. PAULA BOND: We can look at that.

13 MR. STEVE WILLIS: I would -- I would -- excuse
14 me -- like to propose that we move to the next presentation.
15 It's already 8:00 o'clock and we're supposed to be wrapping
16 up. Once we do that presentation, we can come back if
17 there's additional comments, but I'd like to be able to do
18 the next presentation before we wrap up. So, Celeste,
19 hopefully you're still on? This next one will be a -- a
20 virtual presentation.

21 MS. JESSIE HOWARD: Yes. Celeste is with us
22 virtually. And, Celeste, as soon as you're ready, go ahead
23 and unmute yourself and address the RAB.

24 MS. CELESTE HOLTZ: Thank you. Can I just do a
25 quick mic check real quick, make sure you all can hear me

1 okay?

2 MS. JESSIE HOWARD: We can hear you fine.

3 MS. CELESTE HOLTZ: Okay. Great. Thank you.

4 MS. JESSIE HOWARD: Yes.

5 (Vapor Intrusion RI Update at 8:05 p.m.)

6 CELESTE HOLTZ

7 MS. CELESTE HOLTZ: As Jessie mentioned, my name
8 is Celeste Holtz and I'm the project manager for the vapor
9 intrusion and remedial investigation project. We presented
10 at the last RAB meeting in November to summarize the field
11 activities that had been completed as part of the first
12 quarterly sampling event for the immediate sampling task.
13 At that time we didn't have validated data, so tonight I'll
14 be doing just a quick refresher on what those activities
15 included, presenting the analytical results as well as a
16 summary of the field activities we recently completed as
17 part of the second quarterly sampling event, and then at the
18 end I'll just wrap up with a quick update on the overall RI
19 schedule. Next slide, please.

20 So for the refresher that first quarterly sampling
21 event for the immediate sampling task was completed in
22 August 2023. Those activities included completion of
23 interior building surveys at the four buildings shown on the
24 map, buildings 25 and 43 at site 21, and buildings 5067 and
25 5068 at site 8, and then we installed and sampled a total of

1 57 sub-slab vapor pins. Next slide, please.

2 Those sub-slab vapor pins were collected and
3 analyzed for VOCs utilizing EPA method TO-15. The results
4 were compared to our project action levels that were
5 outlined in our final report plan that was compared and
6 submitted to EGLE and MDHHS. Those project action limits
7 including the EGLE-derived site specific volatilization to
8 indoor air criteria, which is primarily used for delineation
9 purposes as part of the RI. And then we also compared the
10 results to the EPA vapor intrusion screening levels or
11 VISLs, which are primarily used for long-term risk
12 assessment purposes. Next slide, please.

13 So on this slide and the next few slides we're
14 going to take a look at the sub-slab vapor pin results from
15 that first quarterly sampling event. So on this slide we
16 have the sub-slab results for building 25. So just as a
17 reminder, this building is a very small building. It's
18 approximately 800 square feet in size. The building is not
19 occupied currently. It's been utilized for kind of
20 long-term document storage. The west side of the building
21 or the left side on the picture there, was where most of
22 those files were stored and it did include a basement, and
23 then the east side is slab on grade and was more maintenance
24 based. There was some equipment in there. And then from
25 what we've been told, the former airfield lighting used to

1 enter that east side of the building. So we installed and
2 sampled two vapor pins in this building. We did have
3 trichloroethylene or TCE and naphthalene that were detected
4 sub-slab above the project action levels, the EGLE site
5 specific VI criteria and the EPA VISLs. Next slide, please.

6 On this slide we have the building 43 sub-slab
7 results. So this building is approximately 26,000 square
8 feet. It's currently used mostly for aircraft engine
9 building and maintenance activities in that large open
10 space, and then there are a few smaller office spaces along
11 the southwest wall. So in this structure we installed and
12 sampled a total of 16 vapor pins. We did have sub-slab
13 exceedances for trichloroethylene pretty uniformly across
14 the building except for at two vapor pins, vapor pin 03 and
15 vapor pin 05 in that northwest corner there.

16 The detected concentrations except for those two
17 pins did exceed our site specific VI criteria and the EPA
18 VISLs. And we also had chloroform exceedances, but were
19 primarily limited to that northeast corner of the building
20 that exceeded our project action levels as well. Next
21 slide, please.

22 On this slide we have the building 5067 results.
23 So this building is an active airplane hangar. They do
24 active plane maintenance and repair activities throughout
25 that big shop area and then, again, like the other building

1 there are some smaller work spaces along that southern wall.
2 So at this building we installed a total of 23 vapor pins.
3 We did have sub-slab exceedances of our site specific VI
4 criteria for trichloroethylene again and then Cis-
5 1,2-Dichloroethylene or DCE. They were generally limited to
6 that east central portion of the building and then TCE did
7 exceed the EPA VISLs at four of those vapor pins. Next
8 slide, please.

9 This is our last building that was included as
10 part of that immediate sampling task, building 5068. So
11 this building is approximately 27,500 square feet. It's a
12 former hangar that is currently used for cold storage only
13 right now, so there's no continuous operations or occupants
14 in this building. But we did install and sample 16 vapor
15 pins and at this building we had no sub-slab exceedances of
16 our project action levels.

17 So that wraps up the results for our sub-slab
18 sampling that we completed at the four buildings during that
19 first quarterly sampling event. I did want to mention that
20 we did also prepare and submit a summary report documenting
21 all of the results to EGLI and DHHS as well. On the next
22 two slides we'll kind of move into a summary of the
23 activities that we completed as part of our second quarterly
24 sampling event. Next slide, please.

25 So the second quarterly sampling event was

1 conducted in late January/early February. As part of that
2 event we updated our interior building surveys. We went
3 through and we re-sampled all of those sub-slab vapor pins
4 again in the four buildings, and then based on the results
5 from the quarter one event, we did collect indoor air
6 samples at three of the buildings that had sub-slab
7 exceedances. So those included one indoor air sample at
8 building 25, four indoor air samples at building 43, and
9 then five indoor air samples at building 5067.

10 We also collected during that event a total of
11 four outdoor air quality samples. One was collected upwind
12 and one downwind of building 25 and 43 just based on their
13 proximity to each other, and then one was collected upwind
14 and downwind of building 5067. Next slide, please.

15 So our indoor air and outdoor air samples were
16 collected over an approximately eight-hour duration that's
17 outlined in our work plan that we prepared and submitted.
18 Based on discussions with EGLE and MDHHS, we did put a rush
19 turnaround time on the results for the indoor air and
20 outdoor air samples. As Amy mentioned earlier tonight, we
21 did receive the draft/preliminary indoor air and outdoor air
22 data. We had a few meetings the end of last week, I guess,
23 and discussed those results with EGLE and MDHHS for
24 evaluating the need for an interim response action. And
25 then the preliminary indoor air data has also been discussed

1 with the Airport Authority and the building tenants. So
2 based on those preliminary indoor air results, building 25
3 is planned to be closed for use until additional data can be
4 collected. As a reminder, building 25 is that small
5 building that was historically used for long-term file
6 storage and is not routinely occupied. The sub-slab vapor
7 pin data from the sampling event has not yet been received
8 from the laboratory. We're expecting that data sometime
9 next week. And then once all of the data is received and
10 validated, the data will be shared with stakeholders. Next
11 slide, please.

12 For the next steps as part of this immediate
13 sampling task, we're going to prepare and submit the summary
14 report for the second quarterly sampling event. Just
15 schedule-wise, we're planning to complete the quarter three
16 event in April time frame where, again, we'll re-sample all
17 the sub-slab vapor pins and continue our indoor air and
18 outdoor air sampling. And then the last quarterly sampling
19 event that is included as part of this immediate sampling
20 task will be conducted in July. Next slide, please.

21 On this slide I just have a quick update on the
22 overall RI activities and progress since our last meeting.
23 So we worked with EGLI to address their comments on the QAPP
24 and we just finalized and submitted that document. And then
25 for the upcoming field activities for the overall remedial

1 investigation, we're planning to be out in the field
2 hopefully in April time frame to start the passive soil gas
3 sampling.

4 And I think the next slide is my last one. It's
5 just a quick snapshot of the overall project time line. And
6 as I mentioned, that's all we have for our update tonight so
7 we open it up for any questions.

8 MS. JESSIE HOWARD: Does anybody have any
9 questions for Celeste?

10 MR. REX VAUGHN: Got a question, Rex Vaughn,
11 Community RAB. How many members of the public are at
12 immediate risk in the three buildings that tested hot? Are
13 those ongoing businesses with employees? Do we have a head
14 count as to how many folks are at risk?

15 MR. MICHAEL MUNSON: I don't -- I don't have a
16 head count, but I know the -- like she said, the one
17 building that is -- is high is not being used and the other
18 ones -- I didn't see the document, but the airport manager
19 did and it was shared with the -- with the employees. I'm
20 not sure how many are there.

21 MR. REX VAUGHN: You don't have an airport
22 manager, so let's --

23 MR. MICHAEL MUNSON: Well, we do; we do. We do
24 have -- we have an airport manager. We are currently
25 looking for a director that will -- the current one will be

1 probably here until May.

2 MR. REX VAUGHN: You've got an extra level of
3 management there I wasn't aware of.

4 MR. MICHAEL MUNSON: Yes.

5 MR. REX VAUGHN: Thank you.

6 MR. STEVE WILLIS: Yeah. We -- we did communicate
7 it with the airport and the airport's communicated the
8 results with the tenants. And I did confirm that in person
9 within just today.

10 MR. REX VAUGHN: Is there any protective action
11 that those employers and employees need to take that's on
12 the level?

13 MR. STEVE WILLIS: There is -- there is no action
14 at this point for them.

15 MR. REX VAUGHN: Okay. So the levels are low
16 enough that they don't need to be wearing a mask and all
17 that kind of stuff?

18 MR. STEVE WILLIS: Correct; correct.

19 MR. REX VAUGHN: Okay. Thank you.

20 MR. STEVE WILLIS: Right. No immediate action is
21 required.

22 MR. REX VAUGHN: That's the end of my questions.

23 MR. STEVE WILLIS: We'll continue to monitor it
24 and if the situation changes, we'll notify them.

25 MR. MICHAEL MUNSON: Yeah, the Air Force has been

1 good about keeping the airport in -- in the loop. Yeah,
2 we'll make sure those people know.

3 MR. KYLE JONES: Kyle -- sorry -- Kyle Jones here.
4 Does Michigan Health Department and EGLE agree that at this
5 time nothing needs to be done with the tenants in those
6 buildings?

7 MS. AMY HANDLEY: So it's the -- the State's
8 preference that mitigation happens sooner rather than later
9 and that the stuff happen as quickly as possible and that we
10 explore every possible avenue to do that. We are aware
11 that, you know, they're operating within constraints of they
12 have to reach that action level, but we do want to see them
13 pursuing any possible route to do some sort of mitigation
14 proposed by --

15 MR. KYLE JONES: Understood. But right now
16 tenants using that building, breathing that indoor air, is
17 that okay as far as you guys are concerned? I mean, Air
18 Force just said it is okay, and I want to know that whether
19 you guys agree with that.

20 MS. AMY HANDLEY: So I guess indoor air is more or
21 less regulated through DHHS, --

22 MR. KYLE JONES: Yes.

23 MS. AMY HANDLEY: -- so I'll let Chelsea answer
24 that one.

25 MR. KYLE JONES: And OSHA as well, by the way,

1 so

2 MS. CHELSEA GARY: Yeah. I guess I wouldn't say
3 that it's okay for them to be breathing indoor air with
4 vapors.

5 MR. KYLE JONES: All right. I'm used precise
6 terms. "Okay" is not clear. Are the levels, the
7 concentrations of the hydrocarbons inside the building over
8 some established level or standard or are above some
9 screening level that either Michigan OSHA or Michigan Health
10 DHS -- DHHS would want those tenants to be not working in
11 that building right now?

12 MS. CHELSEA GARY: I would say yes.

13 MR. KYLE JONES: Yes, you want them out?

14 MS. CHELSEA GARY: Yes, I would not want them
15 breathing that air for sure.

16 MR. KYLE JONES: Okay. Then -- then I would
17 suggest that the State of Michigan get with the Air Force
18 immediately to figure this out.

19 MS. CHELSEA GARY: Yeah, we have been working on
20 that.

21 MR. KYLE JONES: Okay.

22 MS. AMY HANDLEY: Yes, we -- I think we've had
23 about five or six meetings just in the last couple weeks
24 with the Air Force to figure out what's our best approach
25 for this, so

1 MR. DAVE CARMONA: So Dave Carmona. I have a
2 question. Since this is fairly new to many of us, the vapor
3 pin readings don't necessarily translate or have a ratio to
4 the air readings that you take. Is that true or not?

5 MS. CELESTE HOLTZ: That -- that's correct.
6 Sorry. There's a bad echo. So a lot of these structures
7 have slabs that are somewhere around 12 to 24 inches in
8 thickness. They're, you know, the two big structures we
9 looked at are hangars with jets in there. They're --
10 they're very thick. There's different things that have been
11 done over the years as far as sealing the floors, the
12 cracks, things of that nature. So the concentrations that
13 you see sub-slab do not necessarily equate to detections or
14 issues in the indoor air.

15 MR. REX VAUGHN: But you're waiting for those
16 indoor air samples to be tested and the results returned;
17 correct?

18 MS. CELESTE HOLTZ: Yes. We're still waiting on
19 the validated data from the laboratory.

20 MS. JESSIE HOWARD: Mark?

21 MR. MARK HENRY: Mark Henry. I have a question
22 about your phase one passive soil gas sampling. What
23 technology are you going to use for that?

24 MS. CELESTE HOLTZ: So those are the passive soil
25 gas samplers is what they're called. There's a number of

1 different laboratories that utilize that, but they're
2 basically a sorbent tube that you leave in the ground for
3 approximately 14 days. The vapors, if there are any, can
4 passively enter into the sorbent tube and then those tubes
5 get sent in the lab and analyzed.

6 Their screening methodologies are not something
7 you would use for -- for, let's say, compliance purposes,
8 but because of the nature of the releases historically, the
9 footprints of some of the IRP sites were basically using
10 that passive soil gas sampling tool to try and refine where
11 we're going to be focusing our investigation efforts.

12 MR. MARK HENRY: The reason that I ask this
13 question is on your maps you have where soil gas work was
14 done in 1995. I was here at the base when that was done and
15 they used the Gore-Sorber technology to identify the soil
16 gas exceedances. I think it might be helpful if you used
17 the same technology -- and I think Gore-Sorber is still in
18 business -- to do the work this time so that you can compare
19 the results to the previous work that was done by ICF
20 Kaiser.

21 MS. CELESTE HOLTZ: Okay. Yeah, we can take a
22 look at that and see what we find out.

23 MS. JESSIE HOWARD: Arnie?

24 MR. ARNIE LERICHE: Arnie Leriche. Where would I
25 have to go to find the total universe of buildings that you

1 initially screened or sampled?

2 MR. STEVE WILLIS: That -- that's a -- that's in
3 the QAPP and it was just finalized yesterday or today, so
4 we'll post that to the AR and it'll have a list of all the
5 buildings being investigated.

6 MR. ARNIE LERICHE: It will be?

7 MR. STEVE WILLIS: Yeah. The list of buildings is
8 all on the QAPP.

9 MR. ARNIE LERICHE: Oh, okay. So right now I can
10 see it?

11 MR. STEVE WILLIS: Right.

12 MR. ARNIE LERICHE: The reason I ask is there's a
13 very large building that's just south of the row of hangars
14 and it's used by Phoenix Composites is the company in there.
15 And I don't know all of what it was used when the Air Force
16 owned it, but pretty sure it had -- it was a machine shop
17 with degreasers and TCE. We as a RAB, I don't remember have
18 talked about or been briefed at all about the volatile
19 organic compound plumes. Have they stayed within the limits
20 after these air strippers stopped operation in 2014 or '16?
21 Bob, help me out.

22 MR. STEVE WILLIS: So -- so all of those legacy
23 sites are in our annual reports so all the data is available
24 to you on the AR and then record.

25 MR. ARNIE LERICHE: Okay. So --

1 MR. STEVE WILLIS: So, yes, it's --

2 MR. ARNIE LERICHE: -- is anyone here that could
3 answer? Is someone familiar with --

4 MR. STEVE WILLIS: Yeah. We continue to monitor
5 those and update that annually.

6 MR. ARNIE LERICHE: Are they all meeting all the
7 standards?

8 MR. STEVE WILLIS: Yes; yeah.

9 MR. ARNIE LERICHE: Okay.

10 MS. JESSIE HOWARD: I think Celeste has something
11 to add.

12 MS. CELESTE HOLTZ: Yeah. I was just going to
13 elaborate a little bit more. So that we presented not the
14 last RAB, but the prior RAB, one of the phases of our
15 remedial investigation will include additional soil and
16 groundwater sampling for VOC analysis. So we'll essentially
17 be taking, you know, another closer look at the VOC data and
18 soil and groundwater to basically, you know, validate what
19 has been collected historically and help drive the VI work
20 that we're doing.

21 MS. JESSIE HOWARD: Okay. Did we have any
22 additional questions at all for Celeste? No? Do we have
23 any additional questions in general from the RAB members
24 before we move on to public comment?

25 (RAB Member Questions at 8:26 p.m.)

1 MR. DAVID WINN: I -- I have one. Is Air Force
2 looking any further into foam transport as part of the RI or
3 any of this investigation?

4 MR. STEVE WILLIS: That -- that'll be part of that
5 additional investigation, the data gap investigation.

6 MR. DAVID WINN: So -- so that is planned to be
7 looked at?

8 MR. STEVE WILLIS: We will look at that further,
9 yes.

10 MR. DAVID WINN: Okay.

11 MR. ARNIE LERICHE: Which foam are you referring
12 to?

13 MR. DAVID WINN: PFAS foam on Van Etten Lake.

14 MR. ARNIE LERICHE: Okay. So we do have an AI to
15 talk about that if it -- it's -- you're just starting from
16 the last two meetings to have some gist of what's going on.
17 Can you say a little bit about --

18 MR. STEVE WILLIS: Well, I mean, it --

19 MR. ARNIE LERICHE: -- and will that be involved?
20 Well, who have you been talking with quarterly and so forth?
21 Can you just quickly in two minutes or less?

22 MR. STEVE WILLIS: And, yeah. So what -- I
23 mentioned, Arnie, before the meeting that Wurtsmith is not
24 an NPL site, so EPA has no official role, but Amy and myself
25 talk quarterly with the EPA region five person. If -- if

1 this were an NPL site, it would be the EPA RPM. So we -- we
2 talk quarterly, share information, we update her on what's
3 going on and I believe you guys talk with her quarterly as
4 well.

5 MR. ARNIE LERICHE: Not me.

6 MR. STEVE WILLIS: Okay. I know some --

7 MR. MARK HENRY: I do.

8 MR. STEVE WILLIS: -- okay. I know -- I know some
9 of you do. I don't know who's included in the group.
10 And -- and we basically use it as an opportunity to share
11 information. I've asked them on a couple of occasions what
12 they're doing, how they're doing it, you know, their broader
13 reach across the U.S. for -- for various things. Foam was
14 one of the topics we've talked about. But we -- we do not
15 have a definitive plan or anything at this point.

16 MS. JESSIE HOWARD: Mark?

17 MR. MARK HENRY: Mark Henry. I have two more
18 questions, please. Paula? No, it's -- it's okay. You
19 could probably just answer from there. Where the sludge
20 spreading area was over by the wastewater treatment plant,
21 approximately how far below land surface was the majority of
22 the contamination?

23 MS. PAULA BOND: That's a great question and I
24 don't know that I can give you a good answer. I do know
25 that in most cases the zone -- we, we took multiple

1 samples -- multiple vertical samples; zero to six inches,
2 six inches to two feet, two to four feet, five to seven and
3 on at five foot intervals after that. Most of the mass that
4 we saw over there is really in that two to four, two to five
5 foot zone. So there is also in shallow, you know, where the
6 release originally occurred, but I think most of what we saw
7 was the mass was in that -- that two -- two to four foot
8 interval. There could be exceptions to every rule, but I
9 think that's -- that's what is was in that area.

10 MR. MARK HENRY: Thank you.

11 MS. PAULA BOND: You're welcome.

12 MR. MARK HENRY: Another question. Clark's Marsh,
13 the upper pond. I saw on your sediment sampling poster
14 presentation you had done some work there along the
15 shoreline. I've spent probably too much time out on Clark's
16 Marsh working in pond one and there are about roughly six
17 feet of highly organic sediments over most of that. The
18 whole thing is only -- I mean, the whole pond is about four
19 feet deep, but there is considerable sediment down there
20 from the decay of the cattails and all that other kind of
21 stuff that's gone on during the 50 years that that place has
22 been polluted by the fire training area plume.

23 I didn't see any samples to determine if those
24 sediments pose a risk and I don't think that the ecological
25 people did that work. I think it would be very helpful to

1 know if someone were to want to remediate that, how much
2 sediment would they have to remove out of there to get to
3 depths where the PFAS levels are low enough that they don't
4 cause ecological harm?

5 MS. PAULA BOND: Right. And that -- that -- that
6 is a great question and Steve kind of alluded to that when
7 we were talking earlier about collecting the samples and
8 having a risk assessment. So they're going to take the
9 sediment samples that we collected along with fish samples
10 that we collected, the vegetation that we collected from
11 pond one. We did all three of those from that pond. So
12 when the risk assessors look at that data, they do the risk
13 assessment, then they will make that determination. And
14 then whatever the risk turns out to be for that, then we can
15 then go back and go, okay, this is the number that we're
16 looking for, how much of this is that and then that's what
17 will be into the feasibility study.

18 MR. MARK HENRY: Okay. I guess it would be nice
19 to have the samples up front so we do have something to
20 compare to.

21 MS. PAULA BOND: Right. But -- sorry. Go ahead.

22 MR. MARK HENRY: That's all I had for this one. I
23 have one other one that may be answered by yourself or
24 Steve.

25 MS. PAULA BOND: Okay.

1 MR. MARK HENRY: I'm understanding that the Iosco
2 County Sportsmens Club which is reusing the small arms
3 firing range was allowed to put in a drinking water well
4 there. Steve and I had talked awhile ago about the Air
5 Force sampling that for PFAS and also for lead because of
6 it's immediately down gradient of a small arms range that
7 has been used for -- well, close to 70 or 80 years now. Was
8 that -- were those samples taken and what is the result of
9 the testing that you did in the well?

10 MR. STEVE WILLIS: I can answer that. No, we have
11 not sampled that. We were actually talking about it
12 recently. I was given the indication that the health
13 department may have already sampled that well for PFAS. So
14 before we went out and did it, I needed to verify that's the
15 case. If they sampled for PFAS, then we will need to get
16 their data.

17 MR. MARK HENRY: Has the health department sampled
18 it?

19 MS. CHELSEA GARY: Yes.

20 MR. MARK HENRY: Is there lead and PFAS in it?

21 MS. CHELSEA GARY: It's just -- as far as I'm
22 aware it's only been sampled for PFAS. I'm not aware of
23 lead sampling there. I don't remember the results off the
24 top of my head. I believe they were at least below our
25 comparison values, but I can get back to you on that one

1 just to verify that.

2 MR. MARK HENRY: Can I suggest that you do the
3 analysis for, lead because it makes so much sense in a
4 drinking water well at a small arm's firing range?

5 MS. CHELSEA GARY: Yeah, I can look into that too.

6 MR. MARK HENRY: Thank you. That's it. Thank
7 you.

8 MS. JESSIE HOWARD: All right. Did we have any
9 additional questions from the RAB members? Kyle? Yes.

10 MR. KYLE JONES: Any questions?

11 MS. JESSIE HOWARD: Any questions.

12 MR. KYLE JONES: Steve, I'd like to -- and Paula,
13 I'd like to return to the -- the Alert Aircraft Area IRA. I
14 know you explained earlier that subsequent sampling has
15 determined that the -- what might have been the case that
16 the plume was wider than originally thought turns out not to
17 be the case. We don't know exactly what -- because you're
18 not collecting 100 percent of the legally required remedial
19 or contamination that is to be remediated from a legal
20 perspective, we don't know what levels you're cutting it off
21 at, if you will. Can you answer that?

22 MR. STEVE WILLIS: Off the top of my head I don't
23 know the -- if you look at the -- the maps in the proposed
24 plan, I think it shows the contours of the concentration and
25 how far out the wells go.

1 MR. KYLE JONES: Okay. Have you considered,
2 though, that which is not being remediated in the IRA and
3 whether -- because that water -- that groundwater, the plume
4 affects the state park area. And so, you know, people are
5 using the park, they're swimming in the water in the lake
6 and my understanding is the water there now exceeds the GSI
7 standards that need to be, i.e., the PFAS contamination is
8 higher than the GSI levels, therefore you're allowing, you
9 know, high enough contamination that should otherwise be
10 remediated. Have you considered that in deciding not to
11 widen your capture or the number of extraction wells for the
12 Alert Aircraft Area?

13 MR. STEVE WILLIS: Yes. We've looked -- looked at
14 all that.

15 MR. KYLE JONES: And -- what? -- you concluded
16 that the, once you capture these higher -- and I can go look
17 at the -- at the poster outside, but whatever, you know, the
18 highest contamination that you are capturing, it's your
19 conclusion that the groundwater venting to the lake surface
20 water will be below -- be below the GSI levels?

21 MR. STEVE WILLIS: The groundwater sampling data
22 that we've collected for the RI doesn't indicate there's a
23 problem there. We've got one area where we exceeded -- take
24 a look at the minute mark. There was -- we've got one area
25 that exceeded the surface water criteria and it coincides

1 with a small plume that we were previously not aware of and
2 so we're evaluating that now.

3 MR. KYLE JONES: And is the "that" going to be
4 addressed in the data gap work plan? How -- how are you
5 going to address it once you evaluate it and assume there's
6 something that needs to get done?

7 MR. STEVE WILLIS: That's -- that's what we're
8 working on. I don't have an answer for you.

9 MR. KYLE JONES: Okay. Would I be right in saying
10 that because you're out of time and out of money that it
11 would have to be in that subsequent work plan?

12 MR. STEVE WILLIS: Not necessarily.

13 MR. ARNIE LERICHE: Is that plume on the map
14 already?

15 MR. STEVE WILLIS: It's on -- it's on the map in
16 the back, yeah.

17 MR. ARNIE LERICHE: Is this the first time it's
18 been added to it?

19 MR. STEVE WILLIS: I -- I think we previously
20 showed that plume looking differently. It was much closer
21 to the Van Etten Lake IRA extraction wells. But based on
22 the -- the monitoring wells we put in, it's a little further
23 north.

24 MR. ARNIE LERICHE: Okay.

25 MR. KYLE JONES: Steve -- by the way, I keep

1 forgetting to announce my name. It's Kyle Jones, Community
2 RAB. I -- I would ask that the -- this issue of whether the
3 groundwater that is venting to the surface water at Van
4 Etten Lake at this state park campground be put on the --
5 the AI list for -- for future consideration, please, because
6 I think the RAB is -- is of the pretty firm opinion that the
7 water right now does exceed the GSI and so it's a bit of a
8 surprise to us that -- that the Air Force thinks it does
9 not.

10 MR. MARK HENRY: And the GSI is groundwater
11 compliance, not surface water compliance.

12 MR. STEVE WILLIS: Right.

13 MR. MARK HENRY: Which is rule, 57 which is a
14 whole other act. And the fact that you have a rule 57
15 exceedance at that one location is very troubling.

16 MS. JESSIE HOWARD: Do we have any additional
17 questions from the RAB members before I open public comment?
18 No? Amy, did we have anybody virtually who had any
19 questions from the RAB or a public comment as of yet, or no?

20 MS. AMY RAUSER: Someone raised their hand and
21 then put it down again so I think we're good.

22 (Public Comment at 8:39 p.m.)

23 MS. JESSIE HOWARD: Okay. I will quickly review
24 the public comment guidelines.

25 MS. AMY RAUSER: Oh, Tony Spaniola does have a

1 public comment.

2 MS. JESSIE HOWARD: Okay. I will read the
3 guidelines and then we'll get to Tony. Number one, please
4 raise your hand if you're here to indicate that you would
5 like to make a comment. Number two, when it's your chance
6 for a comment, please approach the mic in the middle of the
7 room. Please state and spell your first and last name for
8 our court reporter and those attending virtually. Number
9 three, please keep your comment to three minutes or less.
10 And number four, please remember that your comment will be
11 addressed at a later time if the RAB members determine that
12 a follow-up is needed. Did we have anybody with us in the
13 room that would like to make a public comment? Yes, ma'am,
14 in the sweater.

15 KELLY LIVELY

16 MS. KELLY LIVELY: Hello. My name is Kelly
17 Lively, K-e-l-l-y L-i-v-e-l-y, with Senator Peters' office.
18 And I also just wanted to reiterate that question that Cathy
19 and Kyle had about the Alert Aircraft Area. Something that
20 I heard you say was that you didn't intend to capture the
21 whole plume, and so that would be an area of concern.

22 And then just to reiterate so that everybody
23 knows, that 28 senators penned a letter to the DOD asking
24 for some clarification on their new policy regarding PFAS
25 remediation nationwide and are waiting for a report back

1 that was due the end of December. And so would like to --
2 to see that. The senator is one of those that -- that
3 authored that letter. And one of the things they ask in
4 there is about getting accurate numbers because Congress is
5 willing to fund remediation efforts and has been -- has been
6 doing so, but needs accurate numbers so that we're not
7 getting to these places where then we don't have enough
8 money. So that's all I'd like to say.

9 MS. CATHY WUSTERBARTH: Thank you.

10 MS. JESSIE HOWARD: Thank you. Did we have
11 another comment in the room? Yes, sir.

12 ROBERT DELANEY

13 MR. ROBERT DELANEY: Robert Delaney,
14 D-e-l-a-n-e-y, and my question is really for EGLE. The Air
15 Force has repeatedly said that the contamination on the east
16 side did not come from their base and their -- all their
17 efforts on the east side really pointed only at showing that
18 they didn't do it, not to, you know, consider multiple lines
19 of evidence. They're just going to prove they didn't do it.
20 So when you have a somewhat recalcitrant responsible party,
21 it's usually is on EGLE's shoulders to go out and find the
22 source of contamination.

23 If the Air Force is not the source of
24 contamination and I -- that is always a possibility, but
25 using multiple lines of evidence it seems highly likely that

1 they are, nonetheless, they're recalcitrant and trying to
2 actually show that. Is EGLE going to step up and actually
3 find the source of contamination if the Air Force will not
4 do it? You don't have to answer right now, but

5 MS. AMY HANDLEY: Okay. I was going to say it's
6 kind of above my pay grade to make that statement.

7 MR. ROBERT DELANEY: Oh, okay.

8 MS. JESSIE HOWARD: Thank you. Tony, if you're
9 still with us virtually, please unmute yourself and address
10 the RAB when you're ready.

11 MR. TONY SPANIOLA: Sure. Can you hear me okay?

12 MS. JESSIE HOWARD: I can. Yes.

13 TONY SPANIOLA

14 MR. TONY SPANIOLA: Yeah. Okay. Yeah, Tony
15 Spaniola, S-p-a-n-i-o-l-a. First of all, I want to thank
16 Denise Bryan for her comments earlier this evening reminding
17 us that the focus here -- that this is all about human
18 health. This is all about the -- the -- the hardship that
19 this community has had to face for now over 14 years. And
20 it's unfortunate. It feels like tonight we've taken some
21 pretty significant steps backward.

22 To not test under Van Etten Lake makes no sense at
23 all. To put it off -- we keep putting things off and
24 putting things off and putting things off. And I say to the
25 Air Force, please reconsider it. Please test that aquifer.

1 And I say to EGLE, if they don't, you need to do it. I live
2 on the east side of Van Etten Lake and so do a lot of other
3 people and we have been horsed around for a long, long,
4 long, long time. It needs to stop.

5 My question -- I have a couple questions. First,
6 how many people work in those buildings that are impacted by
7 the vapor intrusion?

8 MR. MICHAEL MUNSON: This is Mike Munson from the
9 Airport Authority. I'm not sure. I'm going to probably say
10 maybe 20 people in those buildings because they're --
11 they're basically maintenance operations. Doors are open
12 continuously so the air is being changed. The concrete has
13 had spills probably over the last 20 or 30 years and they're
14 anywhere from a foot to 20 inches deep. It's important that
15 if there's something there, that we need to test it,
16 but

17 MR. TONY SPANIOLA: Thank you for that, Mike, for
18 that clarification. I appreciate that. And with regard to
19 the -- the interim remedies proposed at the wastewater
20 treatment plant and Three Pipes, what -- what activities in
21 connection with those, even if it's evaluation, are -- are
22 in the current fiscal year budget? Do you have any money to
23 move those forward in any way at all?

24 MR. STEVE WILLIS: No. No funding for those.

25 MR. TONY SPANIOLA: I just want to say that having

1 been at these meetings for years and years and having heard
2 that we don't have funding is very troubling because we have
3 members of congress including Senator Peters' staff who --
4 and the staff who are here tonight, who are repeatedly
5 indicating a willingness to provide funding. The fact that
6 we don't have sufficient funding, again, very troubling.
7 There's a pretty serious disconnect between whoever is
8 putting together the budgets and the communications to
9 Congress. And, again, it underscores the lack of concern
10 about the health of the people in our community. We've got
11 to do better.

12 And we know the Air Force can because we've seen
13 some steps that they've taken in the right direction. But
14 tonight is very, very, very disappointing. And I -- I ask
15 each of you who work for the Air Force and for EGLE to think
16 about what you can do to impact in a positive way the health
17 and the well-being of the people in our community because
18 that seems to get lost in a lot of the mumbo jumbo that
19 we're hearing tonight. Thank you for your time and thank
20 you to all the RAB members for your hard work in -- in this
21 situation. I appreciate it.

22 MS. JESSIE HOWARD: Thank you, Tony. Do we have
23 any other public comments either with us or virtually?

24 MS. AMY RAUSER: We have a Krystal Gurnell has a
25 comment.

1 MS. JESSIE HOWARD: Okay. Krystal, whenever
2 you're ready you can unmute yourself and address the RAB.
3 We cannot hear you. Oh, now we can. Go ahead.

4 KRYSTAL GURNELL

5 MS. KRYSTAL GURNELL: I am Krystal Gurnell.
6 Krystal, K-r-y-s-t-a-l, and Gurnell, G-u-r-n-e-l-l. I'm
7 here for Representative Jack Bergman (inaudible).

8 MS. JESSIE HOWARD: I'm sorry, Krystal.

9 MS. KRYSTAL GURNELL: (Inaudible) so if we can
10 follow up in a hearing for the (inaudible). Thank you so
11 much.

12 MS. JESSIE HOWARD: Krystal, I apologize. We're
13 having some issues hearing you clearly. We were not able to
14 catch your comment. Could you repeat, please?

15 MS. KRYSTAL GURNELL: Yes. Can you hear me now?

16 MS. JESSIE HOWARD: We can hear you now. If you
17 could just speak a little slower for us.

18 MS. KRYSTAL GURNELL: Can you hear me now?

19 MS. JESSIE HOWARD: Yes.

20 MS. KRYSTAL GURNELL: Okay. I can. Hi, this is
21 Krystal Gurnell. I am from Representative Jack Bergman's
22 office. And I was just going to reiterate the (inaudible)
23 and how important it is for our office to focus on the --
24 capturing the entire plume. This is an important issue for
25 our office. So we look forward to follow-up discussions and

1 meetings and (inaudible). Thank you.

2 MS. JESSIE HOWARD: Thank you very much, Krystal.
3 Amy, do we have anybody else virtually with a comment?

4 MS. AMY RAUSER: (Shaking head)

5 MS. JESSIE HOWARD: No? Okay. If there's nobody
6 else in the building with a comment, I will turn the floor
7 back over to our co-chairs for their closing remarks.

8 MR. STEVE WILLIS: Yeah. This is Steve Willis and
9 I want to thank everybody for coming tonight in person as
10 well as those that joined us online. I think we had some --
11 some good discussions. There's quite a few issues that are
12 still open ended and we need to try and wrap up. But we'll
13 continue to -- to make progress and brief you guys on what
14 we're doing.

15 MS. JESSIE HOWARD: Thank you. Mr. Henry?

16 MR. MARK HENRY: I also would like to thank those
17 that -- that showed up this evening and participated
18 virtually. A lot of topics to cover here. We've only
19 touched on some of the stuff. We'll be hearing more about
20 it in the future I'm sure. Besides that, I thank everybody
21 and have safe trips home. Thank you.

22 MS. JESSIE HOWARD: Thank you. Thank you,
23 everybody. Have a great night.

24 (Proceeding concluded at 8:49 p.m.)
25

CERTIFICATE

I, Marcy A. Klingshirn, a Certified Electronic Recorder and Notary Public within and for the State of Michigan, do hereby certify:

That this transcript, consisting of 162 pages, is a complete, true, and correct record given in this proceeding on February 20, 2024.

I further certify that I am not related to any of the parties to this action by blood or marriage; and that I am not interested in the outcome of this matter, financial or otherwise.

IN WITNESS THEREOF, I have hereunto set my hand this 6th day of March, 2024.

Marcy A. Klingshirn

Marcy A. Klingshirn, CER 6924
Notary Public, State of Michigan
County of Eaton
My commission expires: March 30, 2029

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