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MS. JENNIFER VAN WIE

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I N D E X

THE WITNESS: TATSUJI EBIHARA

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HEARING OFFICER HALLORAN: Hi. Good morning. My name is Bradley Halloran. I'm the Hearing Officer with the Illinois Pollution Control Board. I'm also assigned to this matter. It's PCB 14-3. It's entitled Johns Manville, complainant, versus the Illinois Department of Transportation, respondent. Today is October 26th, 2020. It's approximately 9:20.

This hearing was properly noticed and will be conducted pursuant to Sections 101 and 103 of the Board's procedural rules. Due to the COVID-19 pandemic, we also have available a Webex platform that will allow the public participants and witnesses to participate without being physically present. Information for accessibility can be found in my September 22nd, 2020, notice of hearing order and also if you have connection issues I have my webmaster and general counsel to the right of me. You can call her, Marie Tipsord, at (312) 814-4925 and she will presumably help you out.

I'm here to rule on any procedural and evidentiary matters. After the hearing, I'll take the record transcripts and post-hearing

[^1]briefs and forward them to the capable members of the Board who will decide. Speaking of which, I believe we have Chair Currie on Webex and we have Member Van Wie here physically present to my right and we have various staff attorneys on -- on Webex as well and technical person Essence Brown, I believe.

And, again, we're here because on December 15th, 2016, in their interim order the Board found that IDOT caused and allowed open dumping of asbestos-containing material. Specifically, the Board found that IDOT caused open dumping of ACM waste along the south side of Greenwood Avenue within Site 6 and adjacent areas along the north edge of Site 3 .

The Board further found that IDOT allowed open dumping of $A C M$ waste on a portion of Site 3 within Parcel 0393. It's my understanding that that there is a little disagreement as far as what portion of Parcel 0393 is. The Board, after finding the violations, made a determination as to Section 33(c) factors and availability of cost recovery. The Board found further hearing is necessary. They directed me to conduct a hearing

[^2]for evidence on the following issues.
The cleanup work performed by JM on the portions of Site 3 and Site 6 where the Board found IDOT responsible for $A C M$ waste present in the soil. Number two, the amount and reasonableness of JM's cost for this work and it's my understanding that the parties have stipulated this morning, two. It's -- number three, the share of JM's cost attributable to IDOT.

After the hearing is completed, the Board will enter a final order awarding cleanup costs as the Board deems appropriate on the facts and circumstances and I do want to remind the parties that we had a sequester order entered. So any lay or fact persons must leave the hearing room and Webex until -- until they are called. In any event, JM, would you like to introduce yourself and we'll move on to IDOT.

MS. BRICE: Sure. Thank you very much. My name is Susan Brice. Welcome to the COVID hearing that we finally got scheduled here after much, much delay. I appreciate it, Mr. Halloran, Board members, Board Member Van Wie. Thank you for having us and --

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[^3]and we've made it thus far, $I$ think we can make it a few more days. So thank you, all, for your patience. Ms. Brice, opening.

MS. BRICE: Yes, sure. And I will be brief. You said a lot of what I'm going to say. So very brief here.

So National Marine Service
versus Illinois EPA the Illinois Supreme Court held that a primary -- "The primary purpose of the act is to ensure that adverse effect upon the environment are fully considered and borne by those who cause them."

This case is about fulfilling that purpose and making the polluter pay. In this case, IDOT is the polluter. The Board found, as Mr. Halloran said in the first hearing, that IDOT violated Section 21 of the act by causing open dumping of $A C M$ waste on portions of Site 3 and Site 6 and I have here Dorgan Figure 1, which is not in dispute and I'm going to -- I'm going to show you guys and I'm going to show the people over here.

So this right here is Site 3, the black line right here, and Site 6 starts
here and then goes over this way past the Board, but in the first hearing we were focusing in on this area so we don't have everything, but you'll hear about that later in the hearing. The Board also -- let me show you guys. Site 3 is this big black here, Site 6 starts here and here and goes further this way.

As Mr. Halloran said, the Board also found that IDOT was liable because it allowed open dumping on Parcel 0393 and held -- because IDOT has held an interest and controlled Parcel 0393 since the 1970s. This right here is Parcel 0393 within this black area up here. This is Parcel 0393 within this black area up here. The Board also waived -- weighed all the Section 33 factors and found each of them was weighed against IDOT and so what -- what is our purpose today?

Our purpose today is to decide how much money IDOT owes Johns Manville, or JM for short, for cleaning up the ACM waste IDOT dumped in the 1970s. As the Board said in its interim opinion, and this is important, it is "Appropriate that a party recover the cost of performing cleanup as a result of another party's
violations."
In other words, a party who cleans up contamination caused by the illegal acts of another can recover the cost incurred. In order to decide how much IDOT owes Johns Manville, the Board asked the Hearing Officer to -- to take in evidence of three topics, which he has gone through, which are the cleanup, work performed by JM and the portions of Sites 3 and 6 where the Board found IDOT responsible for ACM waste present in soil.

Number two, the amount and reasonableness of the cost of the work and the share of the JM cost attributable to IDOT. The good news as Mr. Halloran said is that Johns Manville and IDOT agree on a lot. They agree that Johns Manville spent $\$ 5,579,794$ on cleanup work at Site 3 and Site 6 and they also agree that this amount was reasonable. They also agree on how that money should be divvied up among the various tasks performed by Johns Manville as part of the cleanup mandated by the U.S. EPA. That said, there is a dispute and as Mr. Halloran mentioned the dispute primarily focused on Question 3 which

[^4]is up there on the board on the share of JM's cost attributable to IDOT, including a little bit about the areas where IDOT is liable.

You will hear from Johns Manville witnesses in the cleanup who were involved in the cleanup as well as a Johns Manville expert, Mr. Dorgan, and not surprisingly the experts -- experts from both sides. You will also hear from Mr. Gobelman, the expert from IDOT, and they do disagree as expected on the issues and calculate IDOT's share of costs in different ways. Mr. Dorgan uses the Board's causation language to determine how much of JM's response costs were caused by IDOT.

The testimony of IDOT's expert, Mr. Gobelman, will show that he did not use this language, rather he looked narrowly at the costs he believed were incurred at specific boring locations identified on his own version of the Sites 3 and 6 map. Not this map.

It's important to stress here that IDOT's liability is not at issue. There was no counterclaim brought in this case. So that all we are dealing with is -- I mean, JM's liability
is not at issue. All we are dealing with is IDOT and IDOT's expert who has already opined that IDOT owes JM $\$ 600,050$. JM contends that the amount is much higher and that's why we're here.

So let's call our first witness
after you do your opening.
HEARING OFFICER HALLORAN: Thank
you, Ms. Brice, very much. Ms. O'Laughlin.
MS. O'LAUGHLIN: Yes. Susan, this
is our demonstrative Figure 8 from Mr. Gobelman. Good morning. Good morning, Illinois Pollution Control Board, members of the Board, good morning counsel and co-counsel. My name is Ellen O'Laughlin and I am here representing IDOT in this action that Johns Manville has brought against IDOT where they seek money to help pay for the cleanup mandated by the United States

Environmental Protection Agency against Johns Manville pursuant to an enforcement action memorandum.

MS. TIPSORD: Slower.
MS. O'LAUGHLIN: Slower.
MS. TIPSORD: I appreciate it.
MS. O'LAUGHLIN: It's a challenge

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speaking with these masks. So as everyone knows and has been said, this is our second time here. The first part of this proceeding was with a five-day hearing where Johns Manville presented their theories of liability and IDOT defended themselves and following those five days of contested hearing the Board issued an interim order and the interim order was very specific fortunately for us. It was very specific about what the additional hearing was to be and I quote additional hearing.

As explained above, the Board finds that IDOT caused and allowed open dumping of ACM waste. Specifically, IDOT caused open dumping of $A C M$ waste along the south side of Greenwood Avenue within Site 6 (1S, 2/4S) and adjacent areas along the north edge of Site 3 (B3-25, B3-16 and B3-15). IDOT continues to allow open dumping as long as ACM waste remains at these locations. Additionally, the Board finds that IDOT allowed open dumping through its control over Parcel 0393 at sample locations B3-25, B3-16, B3-15, B3-50, and B3-45 (to the extent sample B3-45 falls on Parcel 0393).

So the purpose of today's
hearing is additional evidence on what is the costs that are attributable to those areas where the Illinois Pollution Control Board "the Board" found IDOT liable and responsible for the ACM waste and I think it's very important to keep that in context exactly what we're doing here. JM is going to try and is trying to expand the areas of liability. We have been here before. We had the five days of hearing. We have been here before. IDOT -- excuse me -- JM is trying to expand areas of liability and they make arguments that frankly are wrong and IDOT had, through Mr. Gobelman, has shown just a very straightforward approach given the areas and the sample locations for which IDOT, as mentioned by the Board, this is the amount that -- this is the amount that would be IDOT's maximum liability and, I mean, the difference could not be more stark.

You know, Johns Manville comes up with a figure of $\$ 3,274,000$-- approximately 275 million of the $\$ 5,579,794$ and I'd like to just give the Board an idea of that huge number of all over costs given what is IDOT's area of liability.

So --
MS. BRICE: Sorry. Just -- just for
the record, sorry, we had objected to these exhibits and based upon foundation and accuracy and reliability we hadn't had a chance yet to -to make that -- renew that objection in the motion in limine. So now that you're going to talk about that exhibit $I$ just want to make that cleat that we do not agree that that exhibit is accurate.

MS. O'LAUGHLIN: And we talked about
this before. You will make that objection.
MS. BRICE: Sure. I just wanted to
make it clear for right now.
MS. O'LAUGHLIN: Okay. That's fine.
So you don't need to make it every single time.
MS. BRICE: Understood.
MS. O'LAUGHLIN: But if you want to
do it again for the record, that's fine, too.
HEARING OFFICER HALLORAN: What
exhibit is this, Ms. O'Laughlin?
MS. O'LAUGHLIN: This is Figure 8
and this is Figure 8 to Mr. Gobelman's
supplemental report, which is Exhibit 207.
HEARING OFFICER HALLORAN: Okay.

[^5]Thank you.
MS. O'LAUGHLIN: It's Figure 8 of
Mr. Gobelman's 207. And I just -- it's, you know, we use this -- we'll use these later and present Mr. Gobelman's report and there is a number of figures that he has, but this one is just pretty straightforward and it shows -- it shows, you know, Site 3 and Site 6 and as Ms. Brice pointed out, Site 6 goes to here, but this was the area that is in play right now and so this is the area that IDOT is responsible -- has been found responsible for by the Board in its December 2016 order. Just this area here and this area here. So that -- those are the sampling results. Those are the wells. You know, there is a little bit of dispute about, you know, exactly where this goes and that goes, but the dispute between the maps are negligible. The important thing is the expansive area that JM wants to assign IDOT and the area that IDOT, pursuant to the Board's order, is responsible. So we're going to talk a lot about this stuff so I won't go into too much, but $I$ just want to point out that, you know, Mr. Dorgan has presented a

[^6]theory that $I$ think it's important to know that he expands liability and is basically three ways.

He expands 6 -- excuse me -Site 6 area of liability and he wants to reopen the hearing basically from previous. He had made that argument before, Johns Manville had made that argument, and he is trying to rehash areas that have already been decided. The Board decided 01S through 04S. Johns Manville argued that it should be further than that, including to 08S. The Board -- they did not prevail. The Board decided $01 S$ to $04 S$, but nevertheless given that order Johns Manville still wants to argue again that IDOT is responsible for $05 S$ to $08 S$ in addition to $01 S$ to 04S.

And the other -- the second area is this expanded area of 0393. The Board's order references specific sample wells. It does not reference areas outside of -- outside of these specific sample wells. So that's the second area, this expansive area 0393, and the third area is this theory that Johns Manville is promoting that the remedy has driven IDOT liability whereas it's just sort of a theory for them to, you know,

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frankly be able to capture, to try to argue that more costs should be assessed to IDOT when it's just -- it's just an unfounded theory.

So what we'll be doing in
this -- in this, you know, hearing is sort of just sorting through each of these theories and each of these liabilities and $I$ will just mention some of the costs apply to the whole area. They can't be segregated. And because Johns Manville has such a large area associated with IDOT liability that the overall percentage is high, which carries through to other expenses that are applied to --

MS. BRICE: Your Honor, Mr.
Halloran, sorry. This has been a lot of argument, which is usually not what is presented in opening. HEARING OFFICER HALLORAN: Yeah. MS. O'LAUGHLIN: I'll just try to -MS. BRICE: I was very careful not to do that and so I would -- you know, I don't think this is appropriate for opening.

HEARING OFFICER HALLORAN: Yeah, it's more argument than not.

MS. O'LAUGHLIN: Okay. I was trying to frame the issues for the Board. It's sort of
complicated and a little dull. So I just wanted to introduce these -- the areas -- these things so we can sort of sort through it all.

HEARING OFFICER HALLORAN: If you
can just do an outline.
MS. O'LAUGHLIN: Sure.
HEARING OFFICER HALLORAN: We can --
MS. O'LAUGHLIN: We will continue to
do that.
HEARING OFFICER HALLORAN: Thank
you.
MS. O'LAUGHLIN: So let me just finish up. The stipulations are correct. So really just what is at issue is what is IDOT responsible for given these numbers. And I think that also to keep in mind is that, you know, culpability has not been waived by the other expert. Culpability, source of pollution, culpability has not been waived by either expert which will most likely be brought up in post-hearing briefs. And having said that, they have covered the cost and the buckets and things like that. So thank you.

HEARING OFFICER HALLORAN: Thank

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you.
MS. O'LAUGHLIN: We can continue.
HEARING OFFICER HALLORAN: Ms.
Brice, your first witness.
MS. GALE: Hearing Officer, we call
Tab Ebihara and I have binders to deliver.
MR. GRANT: Kristen, what is on your
screen?
MS. GALE: Here.
MR. GRANT: I was just wondering if I should sit on the other side, if I need to see what is presented.

MS. GALE: If you want to,
absolutely.
MR. GRANT: Is that okay with the
Hearing Officer?
HEARING OFFICER HALLORAN: I didn't know what you're doing.

MR. GRANT: I wanted to see what was up on the screen with what the witness was seeing. So can I come up over here?

HEARING OFFICER HALLORAN: Sure.
MR. GRANT: Thank you.
MS. BRICE: Kristen, make the

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objection first.
MS. GALE: Dr. Ebihara, why don't you sit right there and if you can face the screen, but the microphone is right that way.

HEARING OFFICER HALLORAN: Thanks
for being here Mr. Ebihara. If you can raise your right hand, the court reporter will swear you in. WHEREUPON:

## TATSUJI EBIHARA

called as a witness herein, having been first duly sworn, deposeth and saith as follows:

MS. TIPSORD: Let's adjust the camera a little bit.

MS. GALE: So is it now on where it clicks on his face when he's talking? When he talks, I want the viewers to be able to see him.

MR. NISHIOKA: I don't know if it goes that far.

MS. TIPSORD: Would it work to set it for that, but then turn it on speaker view so when he is speaking you would only see him?

MR. NISHIOKA: Let me see. I can manually do it. It depends what you want me to do. Do you prefer speaker view?

MS. GALE: I prefer speaker view.
MR. NISHIOKA: Okay.
MS. GALE: Thank you. Mr. Hearing
Officer, before I begin, throughout this -- we made an objection to a base map and various figures by IDOT's expert witness Mr. Gobelman and you overruled our objection and before we go any further we're going to ask some questions about those figures and base maps, but by asking these questions Johns Manville is not waiving its objections to the base map and the figures and Johns Manville is not agreeing or admitting that Mr. Gobelman has the skill, expertise or education to create the base maps and the figure -- figures, nor is Johns Manville agreeing or admitting that the figures and the base maps created by Mr. Gobelman are reliable or admissible or have adequate foundation.

So throughout this hearing we may say it occasionally on a shorter matter. We will have a continuing objection to the admissibility of the base maps and the figures and objection to Mr. Gobelman's opinions that are based upon that base map and those figures.

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HEARING OFFICER HALLORAN: More
importantly, the Board affirmed these.
MS. GALE: I know. I understand.
You know, we have a continuing objection regardless of the Board's opinion.

HEARING OFFICER HALLORAN: So noted.
Thank you.
MS. O'LAUGHLIN: Since we are making objections to maps and they expanded their objection to expertise, we also have objections which we outlined in our motion in limine, which was denied by the Hearing Officer, but we would like to maintain and preserve all those objections regarding the expertise and the creation of the maps and all the arguments that were made during our motion in limine.

HEARING OFFICER HALLORAN: So noted. Thank you, Ms. O'Laughlin. Ms. Gale.

MS. GALE: Ready.
D I R E C T
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BY MS. GALE:
Q. Dr. Ebihara, ready?
A. Yes.
Q. Very good. Dr. Ebihara, can you

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please state your name for the record.
A. Tatsuji Ebihara.
Q. Can you spell Tatsuji for the court reporter, please.
A. Sure. T-A-T-S-U-J-I and last name is $\mathrm{E}-\mathrm{B}-\mathrm{I}-\mathrm{H}-\mathrm{A}-\mathrm{R}-\mathrm{A}$.
Q. Thank you. Dr. Ebihara, I'm calling you doctor, why am I calling you a doctor?
A. I have a Ph.D. --
Q. What is your Ph -- thank you.
A. -- in environmental engineering.
Q. Okay. And do you hold any professional licenses?
A. Yes, I have professional engineering license in the state of Illinois and the state of New York.
Q. And where do you currently work?
A. Here in Chicago.
Q. For whom?
A. AECOM.
Q. And what is your title?
A. Senior technical leader.
Q. And how long have you been with

## AECOM?

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related to Sites 3 or 6?
A. Yes, there's an environmental
covenant for Site 3 that is being finalized and also for the paved portion of Greenwood Avenue.
Q. Great. Now, I want to get into
professional services and I believe you said you began working at the site around 2007. Who were you working for at that

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time?
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A. I was working for LFR.
Q. And what timeframe was LFR's involvement at the site approximately?
A. For southwestern sites?
Q. Yeah.
A. Probably 2000 -- from 1998 until -until 2012. So Arcadis --
Q. Arcadis, right?
A. Arcadis purchased LFR.
Q. Right.
A. So the involvement continued through about 2012.
Q. And your involvement started in 2007, right?
A. That's -- my involvement started in

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2007.
Q. So about '07 to 2012 was the LFR/Arcadis portion, correct?
A. That's correct.
Q. And then what happened -- and what was going on from 2007, generally speaking, to 2012 at the site?
A. From 2007 to 2012, LFR and Arcadis developed an extent of contamination work plan that was reviewed and approved by the U.S. EPA.
Q. And is that commonly called the ECA?
A. It's actually a work plan just --
Q. Okay.
A. -- before the ECA.
Q. Sorry. Continue.
A. And we also prepared engineering evaluation and cost analysis, which is -- the acronym is ECA.
Q. Thank you. And that involved a field investigation, too?
A. That's correct.
Q. Very good. Who did you submit the ECA to?
A. To the United States EPA.

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Q. Wasn't there a water main as well?
A. City of Waukegan water main.
Q. Very good. All right. Mr. Dorgan,

I want you to open up your binder.
THE COURT REPORTER: You called him
Mr. Dorgan.
BY MS. GALE:
Q. I'm sorry. Dr. Ebihara. Sorry.

MR. GRANT: We're all going to do
that.
MS. GALE: Oh, boy. The word is right in front of me.

BY MS. GALE:
Q. Dr. Ebihara, I want you to open up your binder to Dorgan Figure 1, that's where that came from, which is the second tab and labeled as Exhibit 204-38.

MS. O'LAUGHLIN: Can you do the trial exhibit number as well?

MS. GALE: I think Exhibit's 204.
MR. GRANT: It's down at the bottom.
MS. O'LAUGHLIN: Thank you. I
apologize.

> MS. GALE: I get it. So Exhibit

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204-38.
MS. O'LAUGHLIN: That's fine.
You're good.
(Document marked as Complainant Exhibit No. 204-38 for
identification.)
BY MS. GALE:
Q. Are you there?
A. Yes.
Q. Very good. Do you recognize this?
A. I do.
Q. What is it?
A. It's a figure prepared by Weaver Consultants Group utilizing the base map information that $I$ provided to Weaver.
Q. Okay. So you said utilizing the base map information.

What is the base map information
you're describing?
MR. GRANT: Can you tell me where
you are? I'm sorry.
MS. GALE: I'm sorry. I'm at
204-38.
MR. GRANT: Okay. Thank you.

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BY MS. GALE:
Q. What kind of data do you put into the AutoCAD software to create the maps?
A. It's locational information points, lines.
Q. Such as longitude and latitude?
A. That's right. Or state plane coordinates.
Q. State plane coordinates. Is plane P-L-A-N-E or P-L-A-I-N?
A. $\quad \mathrm{P}-\mathrm{L}-\mathrm{A}-\mathrm{N}-\mathrm{E}$.
Q. Thank you. I believe you said this, but you provided the AutoCAD base maps to Mr. Dorgan?
A. Yes.
Q. Very good. Okay. So I want you next to flip to 229 on your -- on your binder and technically it's Exhibit 229F-377. Do you see that there?
(Document marked as Complainant Exhibit No. 229F-377 for
identification.)

BY THE WITNESS:
A. Yes.

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BY MS. GALE:
Q. Okay. Do you recognize this?
A. Yes.
Q. What is it?
A. It appears to be a screenshot of an
open AutoCAD file of Site 3.
Q. Okay. So by screenshot, we're looking actually at a picture of the software AutoCAD?
A. That's correct.
Q. Is that what you prepared -- what you worked off of when you created the auto -- the base maps?
A. Yes.
Q. And --

MR. GRANT: Did he say he created
the base map?
THE WITNESS: Yes.
MR. GRANT: Not AECOM generally, but him personally?

BY MS. GALE:
Q. Dr. Ebihara --

MR. GRANT: I just want to clarify.
MS. GALE: Okay.

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BY MS. GALE:
Q. Dr. Ebihara, you were part of the preparation of the base maps?
A. Yes.
Q. And you oversaw --
A. The original base map created by LFR under my authority.
Q. Yes, you oversaw --
A. Oversaw the development.
Q. Of the base maps.
A. Yes.
Q. You approved the final version of the base maps?
A. Yes.
Q. So I think we discussed this. The input data that goes into an AutoCAD you said the state plane location --
A. Coordinates.
Q. -- coordinates. Now, where do those come from?
A. They come from land survey
information, from an official land surveyor and they come from utilizing a field global
positioning system unit that is very precise and

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it records a location and that -- that data -those data are directly inputted into the AutoCAD software.
Q. And is that a standard engineering practice?
A. Yes.
Q. And in this AutoCAD software -MR. GRANT: Before you ask another question.

MS. GALE: Is this an objection?
MR. GRANT: Are you just going to have the exhibits that you're -- in here that you're referring to up there? Because then I can get out of the Board's way.

MS. GALE: Yes. That's accurate.
MR. GRANT: Okay. I'll sit down.
BY MS. GALE:
Q. A -- shoot. Okay. Dr. Ebihara, looking at Exhibit 229F-377, that's just a picture. In an AutoCAD, describe for me what other elements are in an AutoCAD that you can't see in this picture.
A. The elements that are visible on a particular screenshot are part of layers of

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information that are turned on or off. So there is -- depending on what you're interested in viewing or the purpose of generating a figure, you'll turn on the -- the layers that are required of the information and then leave others off.
Q. $\quad \mathrm{Mm}-\mathrm{hmm}$.
A. So there's a lot of digital
information stored within it.
Q. Very good. And when you provided the AutoCAD to Mr. Dorgan, you provided the whole thing?
A. All of the -- all of the information requested.
Q. Okay. And in your work using this AutoCAD base map, how is this used?
A. It was used to develop all the engineering plans and site figures for all of the U.S. EPA submittals that were reviewed by the U.S. EPA.
Q. And so they were put into your reports that you submitted to U.S. EPA?
A. Yes.
Q. Okay. And what did the U.S. EPA do with those reports?

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Q. But in your final report, how big was it?
A. It was over 3,000 pages.
Q. Too much -- it would probably cover your entire table, wouldn't it?
A. Yes.
Q. So -- and who wrote the final
report, which is Exhibit 213?
A. This is a report by AECOM that I supervised and reviewed and participated in.
Q. So --
A. So my team wrote the report.
Q. Right. And your signature is right there, right?
A. That's correct.
Q. Okay. And you submitted this report to U.S. EPA?
A. Yes.
Q. And what did U.S. EPA say?
A. They -- they have approved all of the construction, the physical construction, and removal action completion. They have not formally approved the final report in its entirety because the environmental covenants for Sites 3 and 6 have

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not been finalized yet.
Q. But they're maps in this final
report?
A. Yes.
Q. And did they approve those maps?
A. They approved them because they
didn't have further comments to request any revisions to them.
Q. Very good. Dr. Ebihara, at some point, you became aware of this litigation, isn't that correct?
A. Yes.
Q. And you learned that Mr . Dorgan was the expert?
A. Yes.
Q. And what, if any, information did he ask from you?
A. He asked me for the pertinent documents about the removal action, but also requested cost information about Sites 3 and 6 that the LFR, Arcadis and AECOM had expended.
Q. And what did you do when he asked you for that information?
A. I provided a summary of that

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information of -- to him.
Q. Mm-hmm. Along with the AutoCAD, you provided him the costs as well?
A. Yes.
Q. And when you provided that
information to him, what did you create, generally speaking?
A. I created correspondence, two
different ones, one updated from the previous one to summarize in tables the costs invoiced to JM for the southwestern sites project as well as the costs going forward that would end in completion of the removal action and the final reports.
Q. Very good.

MS. GALE: I just want to ask, can you hear him?

THE COURT REPORTER: Yes.
MS. GALE: Okay. Can you hear him?
HEARING OFFICER HALLORAN: Mm-hmm.
BY MS. GALE:
Q. All right. Let's flip now to

Exhibit 204 -- it's actually in your binder 204
Exhibit B. Do you recognize this?

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MR. GRANT: Can I interrupt for a second, Kristen? Sorry.

MS. GALE: Sure.
MR. GRANT: You said 204(c)?
MS. GALE: Exhibit B.
MR. GRANT: B.
MS. GALE: I'll get there. I will
get you there.
MR. GRANT: I have it. I'm sorry.
BY MS. GALE:
Q. So if you flip to the first page, Exhibit B, it's your understanding this is part of Mr. Dorgan's expert report, correct?

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period that I mentioned and then I summarized both the total cost for Site 3, the total cost for Site 6, as well as a categorization of those costs into approximately eight categories.
Q. So you said categories, have you heard the term task buckets?
A. Yes.
Q. What is your understanding of task bucket?
A. They're the same categories I'm referring to.
Q. Okay. So when we use task bucket, it's also a category, right?
A. Yes.
Q. And, generally speaking, how did you determine which costs went into each task bucket?
A. So I have a -- I have an invoice -the invoice documentation provides a summary narrative of Site 3 and Site 6 work. I also have timesheet information from each employee that charged time during that invoice period and that has detailed notes regarding what they're working on at the time and also $I$ was familiar with the main work going on in each of those invoice

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periods as $I$ was supervising each of those team members directly.
Q. Okay. Great. So let's -- let's turn to Table 1 in Exhibit 204. That's actually on Exhibit 204-49.
(Document marked as Complainant
Exhibit No. 204-49 for identification.)

BY MS. GALE:
Q. Okay. I have a magnifying glass if you need it to see. Would you like to use the magnifying glass?
A. I'm okay.
Q. I'll be asking you questions. So, Dr. Ebihara, what is Table 1 and you'll see that it is a number of -- there are four pages for this table?
A. This is a summary for Site 3 and Site 6. It's costs that were invoiced between April 28th, 2007, and September 8th, 2017.
Q. Okay. So when you said earlier about going back to invoices and looking at timesheets, that's what you did in Table 1, right?
A. That's correct.

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Q. Okay. And you said you started in 2007.

Why -- why did you start in 2007
for costs? Why didn't you go back further?
A. Right. 2007 I believe was June was when the settlement agreement for southwest sites was issued. So it kicked off a series of requirements for Johns Manville to respond and prepare for the U.S. EPA.

So that was the beginning of my
involvement, but also the beginning of where the invoice records specifically identified southwestern sites --
Q. Right.
A. -- as an invoice item.
Q. So before 2007, it was general,
right?
A. It was folded into the consulting work we were doing, but not specifically identifies southwestern sites in Sites 3 and 6 work.
Q. So you wouldn't be able to in your -- looking at the invoices to distinguish, right?

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number, Kristen? I'm sorry.
MS. GALE: Sure.
MR. GRANT: 204-50.
MS. GALE: Table 2 is 204-53.
(Document marked as Complainant Exhibit No. 204-53 for identification.)

BY MS. GALE:
Q. So, Dr. Ebihara, can you describe for me what Table 2 is?
A. Table 2 is the completion costs for Site 3 that were anticipated to be incurred after the end of that final invoice cost provided in Table 1.
Q. How did you go about putting this together?
A. We understood what was yet to be completed and those line items were -- were identified and estimated and those are totaled at the bottom of the page.

So you can -- you can see that
most of the work was involving establishing of thriving vegetative cover and then completing some project management regulatory support and final

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report preparations.
Q. Okay. And then flipping to Table 3, which is on Exhibit 204-56.
(Document marked as Complainant Exhibit No. 204-56 for identification.)

BY MS. GALE:
Q. Generally speaking, what is this?
A. This is a completion cost summary for Site 6, in all of Site 6. So it's the similar table to site -- Table 2, but associated with Site 6 where it identifies the costs that were anticipated to be incurred to get through to the end of the final report.
Q. Did you use a similar methodology to create Table 3 as you did for Table 2?
A. Yes.
Q. Flipping to Table 4.

Again, Dr. Ebihara, do you need
a magnifying glass?
A. I'm okay.
Q. Good. Table 4, what is this?
A. Table 4 is a total of operation and maintenance costs for Sites 3 and 6.

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costs each year is based on. So it's engineering, it's staff hours and rates, that total, as well as expenses for signs and stone materials to keep the soil covering in good condition.
Q. And then in Table 4 it's that value from Table 5, but projected out using what kind of projection?
A. It includes an average rate of escalation, but it assumes the same scope of work each year is incurred, each year to maintain the cap.
Q. Okay. Dr. Ebihara, going back to look at all of 204-46 and your tables from February 15, 2018, do you believe you've accurately reflected the costs since 2007 at Site 3 and Site 6?
(Document marked as Complainant
Exhibit No. 204-46 for
identification.)
BY THE WITNESS:
A. Yes. BY MS. GALE:
Q. Now, I want to flip to and discuss the task buckets that we mentioned before.

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describe for me how this figure works?
A. The top part of the figure shows the right of way of Greenwood Avenue and the very top portion of the figure is the western half of Site 6 and just below it is the eastern half of Site 6 and they -- they match up at the match line that is described in the upper right corner.

So it's a -- it's a continuous
road right of way and it's a way of representing in a figure so there is enough detail that is available.
Q. And it was done this way so you wouldn't have a two-foot page heading out of the binder, right?
A. That's right, with really small print.
Q. Exactly. And so looking at this map, these two rows are actually connected at the match line, right?
A. That's correct.
Q. Very good. And I want to focus on the AT\&T lines now. Let's look at the legend and there is a -- for the record, I'll say pink, but Dr. Ebihara does not see color very well. So this

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will be somewhat difficult, but do you see the Comm, C-O-M-M, line?
A. Yes.
Q. What is that for?
A. That's for the AT\&T underground
phone cables that were present --
MR. GRANT: Can you show --
BY THE WITNESS:
A. -- before any work was completed.

MS. GALE: Pink Comm line right
there.
THE COURT REPORTER: Can you repeat the end of your answer. AT\&T underground phone cables that were --

BY THE WITNESS:
A. Present before the removal action work was performed. BY MS. GALE:
Q. And that -- is the -- so before the removal action was begun, what happened to them during the removal action?
A. They were removed or deactivated, decommissioned before the removal action was started.

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Q. Okay. So looking at the map, do you see the Comm line, and it is difficult to see, but I'll try for the record, on the northside of the top row beginning at 01N?
A. Yes.
Q. Okay. And where does that go to, on the northside of the top row, approximately what sample point?
A. Approximately, 27N.
Q. 27 N , right. And then what happens there at 27N?
A. That underground cable comes up out of the ground and goes up to overhead utility poles.
Q. And those overhead utility poles, that's the OH ?
A. That's correct.
Q. And these are -- these OH , overhead utility poles, this is a representation before construction began, is that right?
A. That's right.

MR. GRANT: I'm lost a little bit.
Can you show me? I don't see an OH.
MS. GALE: Right there.

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BY MS. GALE:
Q. So the OH is on the far right-hand side right next to 29N?
A. That's correct.
Q. Okay. And that OH continues on through the match line on the -- excuse me -eastern -- towards the east on Greenwood Avenue, right?
A. That's right. Continues to proceed east and ends approximately at --

MR. GRANT: Mr. Halloran, I'm going to object at this point. I don't understand the relevance of this testimony. This is way outside of the area that the Board found that IDOT was involved.

HEARING OFFICER HALLORAN: I don't know what your intention is. Ms. Gale?

MS. GALE: This is related to the calculations that were by the experts in their estimation of what the costs were associated with. Part of the calculations that we contend Mr. Gobelman did were inaccurate based upon inaccurate information about his estimates of how far these lines went. So it's related to, in

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effect, the denominator of Mr . Gobelman's estimations.

HEARING OFFICER HALLORAN:
Mr. Grant?
MR. GRANT: I'll withdraw my
objection.
HEARING OFFICER HALLORAN: Okay.
Thank you. You may proceed.
BY MS. GALE:
Q. Okay. I think we said it, but I lost -- so -- these overhead lines depicted on this map, these were there before construction occurred, right?
A. That's correct.
Q. And during construction, what, if anything, was done on these overhead lines?
A. They were -- they were not modified.
Q. They were not modified?

MR. GRANT: Let me object to the
term construction. What do you mean by construction? You mean construction of the AT\&T lines?

MS. GALE: Okay. Fine.

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BY MS. GALE:
Q. I'm using the term -- construction term, what do you think I'm meaning by that?
A. It's the soil removal action and any related utility work that was required to allow that to occur safely.
Q. Okay. So where did the work on the north side of Greenwood Avenue end?
A. On the north side, approximately 58 N.
Q. On the north side?
A. Utility work or soil?
Q. I'm sorry. You're right. Where did the utility work
related to Comm line end?
A. It ended at approximately 27 N .
Q. Thank you. And so, to your
knowledge, were any costs incurred for the -beyond 28 -- 27N by Johns -- excuse me -- by AT\&T that AT\&T billed Johns Manville for?
A. For the north side?
Q. Correct.
A. No, there were no additional costs.
Q. Thank you. All right. I want to

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now focus on the south side. Looking at the south side, you see the Comm on the western end that is actually not in the road and it heads northeast on the south side of --
A. Yes.
Q. Where does it sort of enter the area?

MR. GRANT: Excuse me. Can you show
me? I thought you were on this one.
MS. GALE: So match line. That's
how this works.
MR. GRANT: Yeah, I know. So it goes here and continues there, right?

MS. GALE: Continues here, correct.
MR. GRANT: You're here.
MS. GALE: South end.
BY MS. GALE:
Q. So on the south end starting on the western edge of Greenwood Avenue, where does the Comm line seem to start?
A. Approximately, 03S.
Q. Mm-hmm. And then it travels along the south side to approximately what sample number? I think you're going to have to cross the

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match line.
A. Right. It's 37 S or 38 .
Q. Yeah. In between 37 and 38 , right?
A. Right.
Q. Okay. And then what happens to that line?
A. It goes across Greenwood Avenue from south to north.
Q. Mm-hmm. And connects to --
A. The overhead line.
Q. Thank you. So now let's look at the AT\&T fiber line. Looking at the legend, the AT\&T fiber line is orange with FIB. So it's -- for your sake, it's the top in the legend, the top FIB.
A. That's correct.
Q. Okay. And this one is a bit harder to see, but looking at the north side of Site 6 so the top, top row, do you see the orange FIB running along --
A. Yes.
Q. -- on the top?
A. Yes, I do.
Q. Okay. And you see that it travels

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on the north side of Site 6 from one end to
approximately where?
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A. To 27 N .
Q. Okay.

MR. GRANT: I'm going to renew my
objection on relevance because there was -- there was no finding of any involvement by IDOT on the north side of Greenwood Avenue in its order. So, number one, $I$ say this is a very cluttered document. I am continuing to get lost on it. HEARING OFFICER HALLORAN: Ms. Gale?

MR. GRANT: Number two, to the extent that this is running on the north side of Greenwood Avenue, it really has no relevance to -to what we're here for today.

HEARING OFFICER HALLORAN: Ms. Gale?
MS. GALE: Sure. Well, first of
all, I mean, it's a cluttered document, but this was a document that was submitted to -- to the U.S. EPA as part of the work done. So I can't help that it's cluttered by AECOM. It has the information of the utilities.

Secondly, as I said before, the purpose of this -- of this testimony and this
description is to rebut the calculations made by Mr. Gobelman in his expert report. He made certain calculations and certain distances that we contend are inaccurate based upon what the work that was done there and because of his calculations that are inaccurate because his denominator is inaccurate. So this goes towards the overall what was done and what was not done at the site.

MR. GRANT: If they're talking about a utility line that is running -- from what $I$ can see, if $I$ am seeing this correctly, this orange line runs only on the north side of Greenwood Avenue where we weren't involved at all. MS. GALE: Mr. Hearing Officer, one last thing. This was an interim order. I understand the Board made its decision. It is an interim order and we still contend the Board may be wrong and so part of, you know, in an interim decision we would like this to be in there in case there is a different decision at a later basis that includes these sites so that we can contend --
HEARING OFFICER HALLORAN: Did JM

[^29]file a motion to reconsider? I mean, the Board -I'm looking at my cryptic notes found IDOT violated at open dumping waste on the south side of Greenwood Avenue. I don't see anything north of Greenwood Avenue.

MS. GALE: Right. But we don't have to -- just because it's an interim order. We don't have to appeal it or do a motion to reconsider. The Board made its decision. We may disagree with it, but it's still available for appeal later.

HEARING OFFICER HALLORAN: The issue is not for this hearing, correct? Share of JM's costs attributable to IDOT based on what they found.

MS. GALE: Right. But our
contention is you have to understand all the costs to understand what should be assigned to each party.

MR. GRANT: Mr. Halloran.
HEARING OFFICER HALLORAN: It sounds like you're backdooring it.

MR. GRANT: We're going to be getting into this. You know, this is not Day 6 of

[^30]the 2016 hearing. We're not still putting on a bunch of engineers to find, you know, what's on Site 3. The Board had to review a ten-foot shelf of exhibits and go through a lot of work to come up with the order that it came up with.

Yeah, it's an interim order,
but -- but it was an interim order that set exactly the purpose and the scope of this hearing and you mentioned it at the beginning, it's been mentioned several times, I hesitate to read the order again, but basically it's -- it's defined the share of IDOT's costs for open dumping at these specific spots and they've got it laid out very carefully in their order exactly where those spots are that is meant to be found.

The Johns Manville site has got asbestos all over the place. It's a Superfund site. And after all the work we did in 2016 to pin down the areas where IDOT may have been involved for moving around this stuff, the Board did it and, I mean, obviously they're not happy with the scope of the Board's decision. They're asking for all of Site 3 and an extensive part of Site 6 on both sides of the road and they didn't

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get it.
We're not particularly happy
that we were found liable for open dumping either, but we're not challenging that in this hearing because that's not the purpose of this hearing. So I do think the scope needs to be limited. This is not giving them an opportunity to reopen entire new areas of this very contaminated site to try to ascribe it to IDOT. Otherwise, we're going to have another six-day hearing with trying to find liability that has already been done.

MS. BRICE: Mr. Halloran, if I may. HEARING OFFICER HALLORAN: Yes, you may.

MS. BRICE: The Board order said it is looking at the share of JM's cost attributable to IDOT. Within that context, the Board said "A party can recover the costs of performing cleanup as a result of the other party's violations." They didn't say you look at each little dot and how much was -- was, you know, spent at that specific dot. That dot is obviously representative of a bigger area.

> It's not our fault that it was
decided upon the basis of sampling locations. We're not trying to -- there was no -- we researched this. We did not have to appeal anything at this point in time.

Listen, we're not trying to reopen everything with respect to this testimony. This testimony is only to rebut what their expert did. Their expert assumed -- and they did this. He calculated these lines. He said the lines run all the way across the north side of 6 and all the way across the south side of 6 . He calculated that number and then he said IDOT's portion of responsibility is from here to here. He divided it, came up with a percentage and then applied that percentage to the cost incurred for that AT\&T line task bucket.

So how in the world we can't -if we can't rebut what he is saying with his assumption that the lines went all the way across the north side of Site 6 and all the way across the south side of 6 -- this is their testimony. This isn't our testimony.

MR. GRANT: I would -- I guess my
response to that is that should be handled during
the examination of Mr. Gobelman.
MS. BRICE: But we're laying the foundation for it.

MR. GRANT: Laying the foundation. We're get into areas on the north side of Site 6 that by their own map show is outside of the area as defined by the Board.

HEARING OFFICER HALLORAN: You know, just by these arguments in front of me and the 2016 order is not crystal clear and understandably so. It was mentioned again $I$ think in the 2018 order that the parties were in disagreement. They didn't address it there.

Ms. O'Laughlin addressed it in her opening. It's rather confusing. So, you know, my thought is that they're going to go ahead and lay the foundation. I mean, nowhere does it say north side of Greenwood, but, again, it's -it's a complicated case.

MS. BRICE: Thank you.
HEARING OFFICER HALLORAN: It is
what it is and I wish it didn't have to be, but I will allow Ms. Gale to continue, but I hope you don't reopen this whole thing again.

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BY MS. GALE:
Q. Okay. I may have to backtrack.

Okay. The FIB orange line, that's the AT\&T fiberoptic cable, right?
A. Yes.
Q. Okay. And, again, looking at the north side at 01 N , do you see the orange FIB line?
A. Yes.
Q. Do you know -- we did this. You said it traveled to 27 N and went to the OH . Okay. Sorry.

Now, the AT\&T orange FIB line, did it travel on the south side of Site 6?
A. AT\&T --

MR. GRANT: Just let me point out -again line --

MS. GALE: Actually you're going to get a no on this one.

MR. GRANT: You said FIB line?
MS. GALE: Here.
MR. GRANT: Thank you.
BY MS. GALE:
Q. So the orange FIB line we already said is on the north side 27N. Now, I'm looking

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at the south side. Do you see the orange FIB line on the south side of Site 6?
A. Yes.
Q. You do?
A. Is it orange? I don't know.
Q. It's not orange.
A. You have to distinguish between AT\&T
and ComEd.
Q. Any FIB on the south side, on the south side. It's not there, right?
A. Is there a color difference between the AT\&T and the ComEd fiberoptic cable?
Q. There is. The Comed C-O-M-M is pink, but the FIB is orange. It's on the north side, but it's not on the south side, right?
A. Yes.
Q. Great. Forgive me. We have coloring issues.

So I want to look actually at the bottom of this figure Exhibit 67-542. On the right-hand side, there is these charts excavation coordinates. What are those -- so I just said it, but what are these charts for?
A. It's to identify the corners of the

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required excavations to remove asbestos-containing
material --
    MS. BRICE: Can you point me?
    MR. GRANT: Just point for the
    record. They're essentially illegible on this
    exhibit.
    MS. GALE: Okay.
```

BY MS. GALE:
Q. Would you like -- I have a
magnifying glass. Would you like to look at it?
MR. GRANT: I have one in my office.
No, I'm just saying this exhibit is illegible and
obviously you know what it is because you've
looked at it and prepared testimony on it, but I
have no idea what these things are.
MS. GALE: Again, I have a
magnifying glass if you'd like to use it, but we
also have it blown up here.
MR. GRANT: Let me come around.
MS. GALE: So if you want to focus
in on the right-hand corner?
MR. NISHIOKA: Right here?
MS. GALE: Yes. There we go.
HEARING OFFICER HALLORAN: Can you
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see it, Mr. Grant?
MR. GRANT: Yes. I apologize for
invading her space here.
MS. GALE: I'll load it up again.
MR. NISHIOKA: I have to go to the
bottom right.
MS. GALE: Mm-hmm. I just need the
chart table. Perfect.
BY MS. GALE:
Q. So those coordinates, what are those -- describe for me what those coordinates are.
A. They're longitude and latitude. So specific locations, point locations, on the Greenwood Avenue right of way where excavation is to be performed to that limit. So each -- each corner --
Q. Right.
A. -- of the rectangular excavation area.
Q. And those relate to the GPS locations, right?
A. Yes.
Q. Okay.

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A. So it allows the field construction worker to know what limit to dig to.
MS. GALE: Chris, you might want to go back again.
MR. GRANT: Thanks for the warning.
MS. TIPSORD: You can pull a chair
around.
MS. GALE: We're almost done with
this exhibit.
MS. VAN WIE: I do have a question.
HEARING OFFICER HALLORAN: Ms. Gale?
MS. GALE: Yes.
HEARING OFFICER HALLORAN: Member Van Wie has a question.
MS. VAN WIE: I do have a question.
I can't quite see the furthest left corner of where it says 123. Is that referring to a specific boring location or --
MS. GALE: I'm getting there.
MS. VAN WIE: Okay.
MS. GALE: I'm doing it right now.
Okay. So if you want to zoom out a bit.
MR. NISHIOKA: How much?
MS. GALE: Keep going. One more
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time.
BY MS. GALE:
Q. Right. So, Dr. Ebihara, I'm looking at this -- this excavation point which has -excavation points 28, 30, 29 and 27, and this is an excavation. The hashmarks are three feet proposed, is that accurate?
A. That's right.
Q. And can you describe to me where these, you know, 20 -- so what is 27 pointing to?
A. Twenty-seven is the point number that you go to the table, reference table, and then 27 in that middle second column from the left is the longitude and latitude coordinate for that point location and same for the other corners of that rectangle for 28 --
Q. Right.
A. -- 29 and 30 .
Q. So if we go back and look at that rectangle -- and, for the record, the rectangle is on the south --

MR. NISHIOKA: Sorry.
BY MS. GALE:
Q. For the record -- I'll describe it

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for the record. It's on the south -- it's the southeastern excavation and this is simply to identify where these points are located, not to in any way expand any scope. One more time.

MR. NISHIOKA: One more time?
MS. GALE: To the right.
MR. NISHIOKA: Okay.
MS. GALE: One more. You have to
get over here. There we go.
MR. NISHIOKA: I'll double click it.
Okay.
BY MS. GALE:
Q. So the coordinates in -- the excavation coordinates they match up to each of these points, right?
A. That's correct.
Q. And these points are -- these coordinates are based upon what?
A. Their longitude and latitude locations.
Q. And where did you put in these coordinates -- what software did you use?
A. This is from our AutoCAD software where those coordinates originated from.

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Q. Great. Okay. All right. We can get off of that.

Dr. Ebihara, I want to flip back to 204-38, which is the second tab in your binder. Are you there?
A. Yes.
Q. Okay. Dr. Ebihara, can you describe for me where the northeast excavation is?
A. Yes, it's located within Site 3 along the north boundary on the east side and it's labeled northeast excavation and it is also marked with the diagonal cross hatch dash lines.
Q. And it --
A. It looks like it is three rectangles linked together.
Q. And in looking at this map, is it in the correct location?
A. Yes.
Q. How do you know that?
A. Because it's -- it was included in the plans that were sent to U.S. EPA for approval and this looks consistent with the base map in the AutoCAD files that I provided.
Q. And, to your recollection, what

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did -- what work did you have to do in this area specifically?
A. In this area, soils were excavated to about four foot depth and removed from the site because of the presence of asbestos-containing material.
Q. And there weren't any utilities in this area, right? Well, I guess --
A. There are a couple utilities that were abandoned, but that wasn't the driving force for the removal action.
Q. What was the driving force?
A. The presence of asbestos material.
Q. Okay. Okay. And now I want to flip back to 2 -- so now we're going to go to 213G, which is the last tab in your binder. Are you there?
(Document marked as Complainant
Exhibit No. 213-1834 for
identification.)
BY THE WITNESS:
A. Yes.

BY MS. GALE:
Q. Okay. What is this?

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A. This is a technical memorandum by AECOM authored by me and Matt Pyrus regarding sample results from Site 3 to the Site 3 ramp. MS. O'LAUGHLIN: I'm sorry. 213G, do you have a more specific reference than 213G? MS. GALE: Sure. 213-1834.

MS. O'LAUGHLIN: Thank you.
MS. GALE: It's -- I'll be
discussing 213-1834 through -- the whole report is 213-1852.

MS. O'LAUGHLIN: Thank you.
BY MS. GALE:
Q. Okay. I believe you said the ramp. Can you describe that location, generally speaking?
A. Within Site 3, it's the -- it's the northwestern corner that follows more of the northern boundary from that -- from that northeastern corner across to the north.

MR. GRANT: I'm going to object on the basis of relevance. It's my understanding the ramp area is not at all included.

HEARING OFFICER HALLORAN: Can you
speak up? I'm sorry.

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you see the phrase site ramp on here?
A. The site ramp is located in labels of the sample locations that are positioned at a diagonal for each of the sample locations that are summarized in this report.

HEARING OFFICER HALLORAN: Can you
speak up, please, Doctor?
THE WITNESS: Yes, sure.
BY THE WITNESS:
A. Site ramp followed by a number is what denotes the sample locations located throughout the sample area of the slope in that northwestern corner of the site.

BY MS. GALE:
Q. Okay. And, Dr. Ebihara, to your recollection, did you perform -- you said sample location. So sampling was performed here?
A. Yes.
Q. And did you find ACM in this area?
A. Yes, in two of the samples.

MR. GRANT: I didn't see. I don't
see site ramp referred to when you say site ramp. I mean, you know --

MS. GALE: Right here.

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A. September of 2016 is when the sample was conducted.
Q. Very good.

MS. GALE: I have nothing further.
Thank you.
HEARING OFFICER HALLORAN: Thank
you. Do you want to take a 10, 12-minute break now? I'm seeing the most important guy in the room say yes. Ten, 12 minutes. We're off the record.
(Whereupon, a break was taken
after which the following proceedings were had.)

HEARING OFFICER HALLORAN: All
right. We're back on the transcript.
Mr. Grant, cross of Dr. Ebihara.
You may proceed.
CROSSSEXAMINATION BY MR. GRANT:
Q. Dr. Ebihara, you prepared the cost summary for Sites 3 and 6 for Mr . Dorgan, didn't you?
A. Yes.
Q. And was that in April of 2017?

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3 and 6?
A. That's correct.
Q. Okay. Let's go to Exhibit 204 Page 47. You're not going to find it conveniently in that binder unfortunately. We're going to have to go to the big white binders that are over to your right. Do you want me to help assist in finding it?
(Document marked as Complainant
Exhibit No. 204-47 for
identification.)
BY THE WITNESS:
A. I see it.

BY MR. GRANT:
Q. Do you need help?
A. The cover letter for my --
Q. Yes, but I have a lot more that's in the expert report. It's in the binder. It begins with 047.

MS. VAN WIE: You said 47, 204-47?
MR. GRANT: Yeah, but I've got -- I
need Exhibit 204 in our binder. I have -Kristen, I have the witness' book over here. Did they get moved?

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[^43]BY MR. GRANT:
Q. And, in general and summarizing,
these are periods of time from approximately six-month periods that you reviewed or that you mentioned in this narrative description summary?
A. Yes.
Q. Okay. And you reviewed all the invoices from 2007 and you made the allocations?

MS. GALE: Objection.
Mischaracterization -- allocation as to between IDOT and --

MR. GRANT: No.
MS. GALE: Okay.
MR. GRANT: To Sites 3 and 6.
MS. GALE: Very good.
BY MR. GRANT:
Q. And in the first ten summaries that you have there listed in the section the cost for Sites 3 -- or 4, 5 and 6 were all lumped together, correct?
A. 4,5 and 6?
Q. Yes, they were lumped together in the invoices?
A. I believe it was Site 3 separately

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and then Sites 4,5 and 6.
Q. Okay. So the costs would all be listed for Sites 4, 5, and 6 and you guys split that model between 4, 5 and 6, correct?
A. That's correct. MS. GALE: Objection as to relevance. The costs have been stipulated to. MR. GRANT: Yeah, I know.

MS. GALE: Okay.
MR. GRANT: How they came up with the cost $I$ think is relevant.

MS. GALE: Yes, but the stipulation was that you're not disputing how they came up with the costs.

MR. GRANT: This is -- we're cross-examining your witness and you provided the costs to Mr . Dorgan and there is a huge difference of opinion as to what the costs allocable to IDOT are, number one.

MS. GALE: Okay.
MR. GRANT: Number two, the fact that you and I have stipulated to costs does not bind the Pollution Control Board. It can make a decision differently. Whether they decide to or
not, $I$ don't know, but it is an agreement between the two of us. It doesn't bind the finder of fact and then, second, I think it adds a lot of color to the -- to making the decision as to what the appropriate costs are to find out how they were arrived at. Plus, this is all tied in with Mr. Dorgan's testimony that is going to come later on as to what the cost allocation should be.

MS. GALE: Right. And to your first end about Mr. Dorgan, Mr. Dorgan is the expert making the allocation between IDOT and JM. Dr. Ebihara has no opinion -doesn't have an opinion on that whatsoever. So I guess our objection to relevance is why is it relevant -- or it isn't relevant since we have already stipulated to it.

MR. GRANT: He relied entirely on the -- on both Mr. Peterson and Dr. Ebihara's figures in coming up with his figures. He has a firm figure and that's what he relied on in coming up with it.

MS. GALE: He relied on the total amount that Dr. Ebihara came up with, but he

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didn't rely upon --
MR. GRANT: He didn't rely on the
method that he came up with? For example, he was attributing costs for Sites 4 and 5.

MS. GALE: Okay.
HEARING OFFICER HALLORAN: Objection
overruled. You may proceed and -- and you can redirect him.

MS. GALE: Thank you.
HEARING OFFICER HALLORAN: Thank
you, Ms. Gale.
MR. GRANT: Okay.
BY MR. GRANT:
Q. I think I have a pending question, but I can't remember.

I think you agreed that sites
for an extensive period of time, which I've represented is the first ten summaries in this document the cost for 4, 5 and 6 were lumped together, correct, in the invoices?
A. In the invoices, but not in the summary.
Q. Correct, yeah.
A. Because the costs for Sites 4 and 5

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were not included in the summary.
Q. And looking at the summaries with the exception of 1 period, which is between December 29th, 2007, and June 27th, 2008, I believe that's the period for the work, not the invoices, that with -- with the exception of that one you allocated the costs for Site 6 as 50/50 with Sites 4 and Sites 5, correct?
A. That's correct.
Q. Okay. Now, there are three -- these are all part of the southwest sites Superfund sites.

## There are three sites, why did

 you choose one-third instead of one-half?A. Because the Site 4, 5 is a grouped site. It's one utility corridor and it was actually quite -- it's of similar size to Site 6, but Site 6 actually included much more complex utility agreements and work. So I picked a conservative number compared to what I thought would actually be representative because Site 6 took more of our effort proportionally than Sites 4 and 5 combined, but because they're about equal linear length of utility corridor, that 50 percent

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was considered to be representative, but also conservative. I think it actually took more than 50 percent -- Site 6 took actually more than 50 percent of our proportional effort during those time periods.
Q. Sites 4 and 5 are not contiguous, right?
A. They are.
Q. Are they adjacent to --
A. It's labeled Site 4-5 and it's -there is not really a distinct Site 4 or a Site 5. It's Site 4/5.
Q. Aren't there --
A. It's a contiguous unit.
Q. I'm sorry. Aren't there several hundred feet between Site 4 and Site 5?
A. No, Site $4 / 5$ is one site. Site $4 / 5$ is one site.
Q. I understand it's being treated as one, but is it one contiguous piece of property?
A. Yes.
Q. In the second summary where you
reduce the amount allocated I think to 65 percent to Sites 4 and 5 and the balance of the site to

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Site 6 --
HEARING OFFICER HALLORAN: Can you keep your voice up, Mr. Grant? Thank you. Sorry.

MR. GRANT: I read the transcript.
I should have -- from the previous hearing. I know that was an issue.

BY MR. GRANT:
Q. It appears that was based on -- and I'm talking about this is 204-61 second paragraph for the period December 29th, 2007, if you're there. It appears that that was based on an objective criteria based on the number of drillings, do you agree?
A. Yes.
Q. I'm sorry. You have to give an
oral --
A. Sample -- sample grid sampled, correct.
Q. Was that the only period that there was some sort of objective criteria to differentiate Sites 4 and 5 and 6?
A. Because it was field investigation work plan oriented, it seemed appropriate to proportion it that way --

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and they actually did separate --
A. Yes.
Q. -- the costs out by site, correct?
A. Yes.

MS. BRICE: Tab, could you speak up a bit. I think they're having trouble --

THE COURT REPORTER: And one at a time with the overlapping.

HEARING OFFICER HALLORAN: One at a time guys. Thank you. BY MR. GRANT:
Q. Do you know how many invoices this period covered?
A. I don't -- I don't recall in total.
Q. I'll tell you what. I'll take you there. If you can go to 204-49.
A. It's represented in Table 1?
Q. $\quad \mathrm{Mm}-\mathrm{hmm}$.
A. Do you want me to count them?
Q. I sort of already have and, frankly, this is a document that is already read, but it goes between those three sheets, I'm going to represent that there were 45 invoices that separated the costs out for 4, 5 and 6 at 45 -- or

[^45]at $50 / 50$ ?
MS. GALE: I would only object. I
think you mean four sheets.
MR. GRANT: Is it four sheets?
MS. GALE: Yes.
BY MR. GRANT:
Q. So if you want to count them, I
don't know if it's necessary.
A. Forty-five total?
Q. Total invoices from I think there were LFR or Arcadis invoices that are listed here where you allocated the work 50 percent for Sites 4 and 5 and 50 percent for Site 6.
A. Yeah, I would have gone through the details to --
Q. No, I understand and it's hard to read. So $I$ will just represent that there were certainly -- there were a number of invoices where they were split. I'm going to take you to Exhibit 229, which is not in that binder by the way. 229G G.

MS. VAN WIE: I'm sorry. What was that?

MR. GRANT: 229G.

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He just has the deposition.
MR. GRANT: Yeah, it's the exhibits
to the deposition.
HEARING OFFICER HALLORAN: Steven, we're off the transcript, $I$ guess, until we get situated here. Let me know.
(Whereupon, a discussion was had off the record.)

HEARING OFFICER HALLORAN: Back on. BY MR. GRANT:
Q. If you can turn to 229G-208.

MS. GALE: I'm sorry?
MR. GRANT: 208.
MS. GALE: Thank you.
MR. GRANT: It's in the exhibits.
MS. GALE: Got it. Thank you.
(Document marked as Complainant Exhibit No. 229G-208 for identification.)

BY MR. GRANT:
Q. Page 208 is a copy of an invoice that was used at your deposition in this case, Dr. Ebihara.

Is this the sort of invoice that

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you reviewed?
A. Yes.
Q. Okay. And down at the bottom --
A. It's one page -- one page of it.
Q. Okay. And down at the bottom line

26 where it says 4,5 and 6 were -- that's what you would have used in your calculation for the report to Mr. Dorgan?
A. Only the current invoice columns.
Q. Not actual cost?
A. Not billed to date. That's a summary --
Q. Okay.
A. -- across multiple invoices. So the only invoice numbers that $I$ would have used would have been the current invoice and not --
Q. Here was what $13--\$ 1,343.50$,

## correct?

A. That's correct.
Q. Okay. So you would have split that number in half and reported half of the number -half of that figure for work that was done against Site 6, right?

MS. GALE: Objection.

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HEARING OFFICER HALLORAN: Ms. Gale?
MS. GALE: Objection to the extent of generalization. I believe earlier he testified that depending what was done he either did it -split it 50/50 or he looked at field investigation.

HEARING OFFICER HALLORAN:
Mr. Grant?
MR. GRANT: Yeah, he said that, but I just asked him the question about whether he used the number on this invoice and split it 50/50.

HEARING OFFICER HALLORAN: He can
answer if he's able. Overruled.
BY THE WITNESS:
A. I'd have to -- I'd have to refer to the narrative. BY MR. GRANT:
Q. Refer to what?
A. I'd have to refer to the narrative I provided to reflect the basis.
Q. Okay. There was no suggestion that IDOT was involved in Sites 4 and 5, is that correct?

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MS. GALE: Again, objection to the extent that he is asked to give an opinion on IDOT's involvement. His testimony here and what he did was simply calculate the total costs at the sites. He made no assessment or allocation or opinion about Johns Manville -- or excuse me IDOT.

MR. GRANT: This is based on the nature of the case. Mr. -- Dr. Ebihara was out there for a long time and he was -- testified at the 2016 trial in this case. So I think the question is there is no allegation in this case or otherwise that IDOT was involved at all in Sites 4 or 5, isn't that correct?

HEARING OFFICER HALLORAN: He can answer if he's able. Overruled.

MS. GALE: Okay.
BY THE WITNESS:
A. Can you repeat the question, please? BY MR. GRANT:
Q. Sure. Are you aware of any
involvement by IDOT in Sites 4 -- 4 or 5?
A. I'm not.
Q. Weren't Sites 4 and 5 much more contaminated than Site 6?

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Arcadis and submitted to Illinois EPA, correct?
A. To the -- submitted to the U.S. EPA.
Q. To the U.S. EPA, yes.
A. That's correct.
Q. And on the inside, I'll take you back to the inside of the front cover of it, it has your name, do you see that, and your signature?
A. Yes.
Q. So were you involved in the preparation of this report?
A. Yes.
Q. Now, let me take you back to Page 15. Under -- on Page 15, under Site 3 soil sampling results reading down the first paragraph, do you see where it says, "Only two of eight pits completed near the former borings from the ELM study were positive for visually ACM," do you see that?
A. On which paragraph again?
Q. This is in the second paragraph under -- with the heading 2.2.2 Site 3 sampling results?
A. Okay.

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Q. And the first sentence second half says, "Only two of eight test pits completed near the former borings were positive for visually ACM," do you see that?
A. Yes.
Q. Okay. If you can turn to Page 22.

Under heading 2.4.2 Site 6 soil sampling results, do you see that?
A. Yes.
Q. Okay. At the second half of the first paragraph, do you see where it says, "28 of 60 " -- "of 88 of the sample locations" -- I'm sorry. Backing up a little bit.
"ACM either visibly or detected
by laboratory analysis was present in soil at 28 of the 88 sample locations," do you see that?
A. Yes.
Q. If you can back up to Page 18 of the same report.

MS. GALE: Sorry. What page?
MR. GRANT: Eighteen.
MS. GALE: Thank you.
BY THE WITNESS:
A. Sixty-three, 18. Page 63, 18.

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BY MR. GRANT:
Q. Yes, please. Paragraph down at the bottom under Site 4, 5 soil sampling results, second half of the paragraph, do you see the sentence that all but 4 of the 59 sampling -sampling rows contained ACM in soil, do you see that?
A. Yes.
Q. Okay. And where it says all but, but four suggests to me that -- that states that 55 of the sample results were positive for ACM in that sampling, correct?
A. That's correct.
Q. If you can take a look at the same exhibit, Page 27. First paragraph scope of ACM affected soil there is three bullet points just below it where it reports Site 3 -- I'm sorry. Up in the first paragraph estimated volume of soil affected by ACM and then the bullet points below Site 311,400 to 15,000 -- 15,200 cubic yards of surface debris for Site 3 down below Site 4/5, 16,700 to 25,000 cubic yards of ACM affected soil, Site 6, 3,200 to 7,500 cubic yards of ACM infected soil?

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A. Yes.
Q. Based on these figures, wasn't 4/5 much more contaminated with ACM than Site 6?
A. In terms of volume of affected soil, yes, but that's not necessarily proportional to the effort expended for the preparation of work plans.
Q. But it was much more contaminated, correct?
A. Yes.
Q. Now, the Site 6 costs that you reported to Mr . Dorgan included all Site 6 costs, correct?
A. That's correct.
Q. Okay. And Site 6 goes significantly further east than the area that IDOT was involved, isn't that correct?
A. I don't -- I don't know what the specific area --
Q. You don't know what --
A. Specific area --
Q. -- area Site 6 is?
A. If you're referring to, like, the sample locations 01 to 04.

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Q. I'm talking --

HEARING OFFICER HALLORAN: One at a
time, gentlemen, please. Thank you.
BY MR. GRANT:
Q. I'm talking about the geographical designation of Site 6. Site 6 is a designed area, correct, or a designated area, correct?
A. Correct. We had sample grids from 01 to 60 for the entirety of the south side of Site 6.
Q. Okay. So -- well, I mean, based on your personal knowledge of the site, doesn't Site 6 extend to the east almost to the power plant?
A. It's on the north side of the power plant.
Q. Mm-hmm. Your estimates for Site 6 also include costs for the north side of Greenwood Avenue, correct?
A. The north shoulder of Greenwood Avenue.
Q. The north side of Greenwood Avenue within Site 6?
A. Yes.
Q. Those costs are included in the

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costs that you prepared for Mr . Dorgan, correct?
A. Yes.
Q. And the Site 3 costs that you
prepared include all of Site 3 -- all of Site 3?
A. That's correct.
Q. Okay. Are you aware that the Board order excluded IDOT from any liability from the north side of Greenwood Avenue?
A. I'm not -- I'm not aware.
Q. Are you aware that -- that it held IDOT liable for only a very small portion of Site $3 ?$
A. I don't -- I don't know or I don't recall.
Q. Are you aware -- are you familiar with the Nicor utility corridor in Site 3 ?
A. Yes.
Q. Okay. Where were the costs related to Nicor utility corridor included in the costs you provided to Mr. Dorgan?
A. The costs that I represented in my cost summary are the development of reports and plans and submittals. So they don't necessarily proportion to actual construction work that was

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performed for the engineering --
Q. I understand.
A. -- services provided to develop a compliant work plan or report for the U.S. EPA.
Q. And for all of Site 3, correct?
A. That's correct.
Q. Okay. Are there any other easements in the southwest site Superfund area that you're aware of? And when I say other easements, let me ask you, are you familiar with the -- the IDOT right of way that is in Parcel 0393?
A. Yes.
Q. Okay. Are there any other easements besides that that you're aware of in the southwest sites area?
A. Yeah, there's part of an elevated ramp that abuts the south end of Site $4 / 5$.
Q. I'm sorry. What was it?
A. Site 4/5 --
Q. Yeah.
A. -- extends north from the elevated ramp.
Q. Elevated ramp. Okay.
A. But I don't think it includes the

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elevated ramp to my recollection.
Q. Are you aware that a Johns Manville contractor or subcontractor brought soil to Site 3 that contained ACM sometime around 2016?
A. Yes.
Q. Did you include costs for removal of that material in the costs provided to Mr. Dorgan?
A. In my summary, I provide the support -- any support that we may have provided for sampling to verify where the contamination was and for the testing of the new material after all of the impacted material was removed. So I provided sampling support services, not actual field construction or materials.
Q. Was the material that was brought in again in 2016 by a contractor or subcontractor, I don't know by who, was that tested for the presence of ACM?
A. The replacement soil?
Q. Yes. Not the replacement soil, the
soil that was actually dumped that had ACM material in it.
A. We pretested the supply that was identified by the contractor and it did not

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include ACM -- any positive ACM test results and so it was pre-approved for placement.
Q. Okay.
A. And then if that answers your
question.
Q. No. I'm talking about subsequently determined that there was ACM in the soil that was brought in and deposited on Site 3, you're aware of that incident?
A. Yes.
Q. Okay. Did you provide any testing services for -- or related to that dumping or the removal of it?
A. I don't recall, but that would -that's within the type of work that we had been doing in support of the project.
Q. Okay. And, again, would that cost have been reported to Mr . Dorgan, do you know? If you don't know --
A. If it was in -- I don't recall the time period of occurrence if it was in 2016. If we provided support during the time period, it would have been included in the invoices up to the endpoints that $I$ reported in my -- in my costs

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summary. So up until September 8th, 2017, I would have included.
Q. I'm going to take you back to the easy-to-use binder provided by Johns Manville and I want to look at Exhibit 229, which is I don't know -- I'll wait until you're there.

Okay. Is -- am I correct in
assuming I think you testified this is the CAD map that you provided to AECOM?
A. I work for AECOM.
Q. I'm sorry. That you provided to Weaver, to Mr. Dorgan, for his report? Or if I'm saying that wrong, please correct me.
A. It's a screenshot that looks typical of an AutoCAD screen page and it has some of the base map information that $I$ would have provided to Mr. Dorgan electronically.
Q. Now, I can't recall. I wanted to say was this map created in 2007? I'm not trying to misrepresent it. That's what I remember.
A. The original -- the original base map for this portion of the site, is that your question?
Q. What I'm curious about is the

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document that is represented here. So if this was -- is a screenshot of the base map that was created, was it 2007 when this was done, this work was done?

MS. GALE: My only objection is to vague. Are you asking whether the base map was created in 2007 or whether this PDF was created in 2007?

MR. GRANT: No. Yeah, my question
is about the base map.
MS. GALE: Okay.
MR. GRANT: And about creating
it with CAD. You know, I think that was
misrepresented. It was a CAD, screenshot of a CAD --

MS. GALE: Well, again --
MR. GRANT: -- diagram.
MS. GALE: The objection is to
mischaracterization. This is -- this is meant to be merely a screenshot of what it looks like. It's not meant to demonstrate what it looked like in 2007. BY MR. GRANT:
Q. When was it created, I guess, is the

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## first question?

MS. GALE: The PDF or the AutoCAD?
MR. GRANT: The AutocAD.
BY THE WITNESS:
A. There is portions of the base map that we have used throughout the project. So when I first became involved with JM, there's elements of the road and the map and the boundaries, the property boundaries, that were already in place and in our use for Johns Manville before 2007. BY MR. GRANT:
Q. Okay. So are we going to call this a map or a CAD or information? Does this just represent information that was generated in 2007? I don't even know if it was 2007.

MS. GALE: Again, I would just
object as to misrepresentation. The purpose of $229 \mathrm{~F}-377$ was to be more of a demonstrative of what an AutoCAD looks like because it is a software program and we couldn't bring the whole program into the hearing.

HEARING OFFICER HALLORAN:
Mr. Grant?
MR. GRANT: What I'm curious is that

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Dr. Ebihara testified, I think, that the Weaver map, which is Exhibit 204-38, was consistent with -- with the screenshot.

MS. GALE: I would object. It
mischaracterizes his testimony. He did not testify it was consistent with the screenshot. HEARING OFFICER HALLORAN: Can you rephrase, Mr. Grant, or are you doing the best you can? I think it's clear enough in the record with everybody testifying thus far regarding Exhibit 229.

MR. GRANT: Okay. I understand. I am just wondering 229 and the screenshot 229 and 204-38 are different and, I mean, I heard Dr. Ebihara say that the Weaver Booze Map was consistent with the -- with the CAD drawing and they're different. There is different details on them. So that's kind of where I was going with them.

HEARING OFFICER HALLORAN: Is that a question out there for the doctor?

MR. GRANT: Not really.
BY MR. GRANT:
Q. Let's -- let me try to simplify it a

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little bit. Look at the Weaver map which is 204-38, please.

And was this created with the information that is represented on 229 using the information that was contained on 229?
A. There are differences.
Q. Do you not know if it was created using the information that is represented on $229 ?$
A. Do I --
Q. The information that's represented on 229, is it either a map or a screenshot or --
A. It doesn't -- there is some differences between the screenshot and what is involved in the drawing.
Q. Was the same AutocAD information used on both?
A. I --
Q. If you don't know --
A. I stand -- I stand by the
information $I$ provided to Mr. Dorgan that has base map features that I'm familiar with that was used in the generation of all the EPA reports.
Q. Is --
A. I can't stand behind the screenshot

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information because $I$ don't know exactly -- it -it looks -- has the appearance of the working interface for AutoCAD and it has some of the site features that is included for Site 3.
Q. Okay. All right. I was a little bit confused about it, too. So you supplied information to Mr. Dorgan from which he created his -- his map of the site?
A. His figures, yes.
Q. His figures. Okay.

MR. GRANT: I think that's all I've got.

MS. O'LAUGHLIN: Wait. Never mind.
MR. GRANT: Wait. Sorry. I was
kidding.
BY MR. GRANT:
Q. Okay. Taking you back to the Weaver Booze Map.
A. Yes.
Q. It indicates -- actually, if you look at the top of the map for Site 3, do you recognize the dimensions in Parcel 0393 in there?
A. Yes.
Q. Okay. And looking to -- to the next

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Exhibit 229, that information is not contained in the screenshot, correct?
A. It does not appear to be.
(Document marked as Complainant
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identification.)
MR. GRANT: That's all I have.
HEARING OFFICER HALLORAN: Thank
you, Mr. Grant. Ms. Gale, redirect?
MS. GALE: Just a few.
$R E D I R E C T X A M I N A T I O N$ BY MS. GALE:
Q. We're going to stay on 204-38 versus 229F-377 and, Dr. Ebihara, in this screenshot which we're calling a screenshot, this is not -this PDF is not the AutoCAD, right? This piece of paper is not the AutoCAD, right?
A. No.
Q. What is it? What is the AutoCAD? Describe it for me.
A. It's a computer software package that stores many different types of locational data.
Q. Right. And that includes layers,

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right, you mentioned layers?
A. Many layers.
Q. Many layers. Describe what those layers are.
A. We -- we -- each layer is a set of information. One could be sample locations, the next layer could be property boundaries, the next layer could be topographic information, the next layer could be utility runs.
Q. Right. And so as you're looking at this screenshot, this screenshot of the AutoCAD doesn't show all of the layers, does it?
A. No.
Q. Okay. But when you gave -- what did you give -- when you gave your information to Mr . Dorgan to create his figures, what did you give him?
A. I gave him many layers of information about utilities, sample locations, site boundaries, parcel boundaries and utility --
Q. You --
A. -- corridors.
Q. I'm sorry. Finish your sentence.
A. All that information was provided.

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> right?
Q. So all of the -- all of the
information, all of the layers were provided,
A. $\quad \mathrm{Mm}-\mathrm{hmm}$.
Q. Very good. You were asked some
questions about Sites 4 and 5 versus Site 6 and I want to go back to -- and you said about your evaluation in comparing the two early on and you thought it was conservative, can you explain to me why you thought it was a conservative estimate to do 50/50?
A. Because sites -- a lot of our work plan descriptions involved the plan for utilities and Site $4 / 5$ for the most part involved one sewer line north to south.
Q. $\quad \mathbf{M m}-\mathrm{hmm}$.
A. Whereas Site 6 included telephone utilities, electrical utilities, gas utilities and was quite complex.
Q. Okay.
A. So a lot of the effort expended during the report preparation was to address those elements.
Q. And so the effort -- yeah, so the

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effort expended was in proportion to -- I'll ask you.

The effort expended, was it in proportion to the volume of ACM found in the site?
A. No, not necessarily. It was -- it was the effort to develop the plan so that the removal action could be completed safely so that utility service wouldn't be interrupted or appropriately closed and safe for workers to perform the removal action.
Q. Okay. And I think just as a demonstrative, if you want to flip in your exhibit binder to 67-542, which is Site 6, and I believe it's been described in this as a very complicated and difficult figure, is this the complexity you're talking about?
A. Yes.
Q. Very good.
A. So an interrupted utility service would have caused disturbance and interruptions for a lot of different parties. So we took a lot of time to make sure that those plans and agreements were going to be effective and conducted before the removal action.

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Q. Dr. Ebihara, you were asked some questions about ACM that was brought -unintentionally brought to the site as fill, do you recall those questions? He just asked you about fill brought in.
A. For Site 3.
Q. For Site 3, right. And if you were to go back to those invoices about that -- that work, would you be able to identify more clearly whether that ACM was a part of your calculations of cost analysis?
A. Yes, and to clarify, it wasn't fill. It was just three inches or less of topsoil.
Q. Okay.
A. So it was easy to remove and it didn't get mixed in or integrated with the actual clay barrier portion of the engineered cover.
Q. Perfect. Thank you for that clarification.

MS. GALE: Nothing further.
HEARING OFFICER HALLORAN: Thank
you. Mr. Grant, re-cross?
MR. GRANT: Yes, just real quickly.

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$R E C R O S S$ E C A M I NATION
BY MR. GRANT:
Q. You were talking about -- talking
about Site 6 and the utilities and specifically with regard to 67-542.

## How far does the clean corridor

## for Site 6 extend?

A. The only clean corridor required after the completion of Site 6 is the fiberoptic corridor for AT\&T.

## Q. Okay.

MR. GRANT: That's all I have.
HEARING OFFICER HALLORAN: Thank
you. All right. Thank you, Mr. -- Dr. Ebihara.
MS. GALE: Thank you, Dr. Ebihara.
HEARING OFFICER HALLORAN: Dr.
Ebihara, you may step down. I think I was remiss as far as the motion to exclude, sequester, the witnesses. The witnesses are directed not to discuss their testimony with other witnesses. All right. Next witness.

MS. GALE: Our next witness is via
Webex. So --
HEARING OFFICER HALLORAN: Mr.

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Peterson.
MS. GALE: Correct. I'm going to
text him to get logged on.
HEARING OFFICER HALLORAN: We're off
the transcript.
(Whereupon, a break was taken after which the following proceedings were had.)

HEARING OFFICER HALLORAN: Mr.
Peterson, if you can raise your right hand, the court reporter will swear you in, please. You may proceed, Ms. Gale.

MS. GALE: Thank you.
WHEREUPON:
DAVID MICHAEL PETERSON
called as a witness herein, having been first duly sworn, deposeth and saith as follows:

D I R E C T EXAMINATION BY MS. GALE:
Q. Well, almost good afternoon,

Mr. Peterson. Welcome and as I just remind you as the Hearing Officer said because we're on Webex, let's both speak slowly and clearly. That's difficult for me. I speak quickly but I will do

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my best to slow down and I will ask that you do the same. So, Mr. Peterson, can you please state your full name for the record?
A. Yes, my name is David Michael

Peterson.
Q. Thank you Mr. Peterson. What is your educational background?
A. I have a bachelors in science in chemical engineering from the University of Michigan.
Q. And do you hold any professional licenses?
A. I do. I'm a licensed professional engineer in Illinois and several other states.
Q. And where do you currently work?
A. I'm currently in Ohio.
Q. I'm sorry. Who do you work for?
A. I am self-employed. I have been self-employed for 20 years.
Q. And what is the company name?
A. The company name is David M. Peterson, PE, PC.
Q. And could you generally describe what you do for your -- your roles and

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responsibilities as part of your company?
A. Sure. I'm the president and
responsible charge engineer. My company practices in soil and groundwater remediation, industrial wastewater treatment, subsurface vapor intrusion projects, stormwater compliance and other matters.
Q. Very good. Mr. Peterson, are you
familiar with the Johns Manville southwestern
sites in Waukegan, Illinois?
A. Yes, I am.
Q. And how are you familiar with it, generally speaking?
A. Generally, I have been part of the southwest sites project from the preparation of the remedial action work plan reviewing it through the execution of the project and preparation of the construction completion report.
Q. And so when did you first get involved, approximately what year?
A. For the southwest sites project, I became involved approximately 2013 when the remedial action work plan was being prepared.
Q. And what -- in 2013, what did you

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A. AECOM prepared the remedial action work plan and $I$ would review it for applicable -for construction purposes.
Q. Okay. And then beyond that, what else did you do? You had bid packages, what were the other purposes there?
A. Yeah, following the remedial action work plan, I prepared bid specifications so that we could get competitive pricing for the completion of the project. I participated in the bidding process, interviewing contractors, making a technical evaluation of the bid. I was also onsite acting as the resident site engineer supervising the execution of the work when it was performed and then I prepared a construction completion report when the work was complete.
Q. Okay. And when you were onsite, what were some of your daily activities that you did?
A. So when $I$ was onsite, I was responsible for project health and safety. There would be daily safety tailgate meetings. I was responsible for overseeing the contractor's work, supervising it, $I$ was responsible for interfacing

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with regulatory personnel, the Army Corps of Engineers was onsite on a daily basis. I was also responsible for documenting the work that was completed which included preparing daily progress reports. It included taking site photographs and just general overall management of the project.
Q. Okay. And when I refer to Site 3 and Site 6, do you know what I mean?
A. I do know what Site 3 and Site 6 are.
Q. And the activities that you just described, did you do those at Site 3 and Site 6?
A. I did, yes.
Q. And is your work at Sites 3 and 6 still ongoing?
A. It is from an operation and maintenance perspective now that the remediation work has been completed.
Q. And what is that -- what is that work, operation and maintenance work?
A. So operation and maintenance includes inspection for erosion, for vegetation. For Site 3, it's to make sure that the cap integrity is -- is -- the cap is in good shape and

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it includes inspecting the perimeter fencing, signage and just the overall health of those sites from the ground level.
Q. Okay. And how long will that operation maintenance continue?
A. Operation and maintenance will continue for approximately 30 years.
Q. And I think you said a cap for Site 3, is there a cap at Site 6?
A. There is no cap for Site 6. There is no cap because the asbestos was removed from Site 6.
Q. All right. I think you said one of the roles was to do the bidding and the bidding -what was the bidding for that you discussed?
A. Yeah, so the bidding was for the southwest sites project. It included Site 3, Site $4 / 5$ and Site 6 as well as some remaining work in the industrial canal.

For Site 3 and Site 6, the Site 3 work included construction of clean corridors around the utilities and constructing the soil cap which included geotextile, sand, clay, topsoil and vegetation. For Site 6 it also included

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construction of a clean utility corridor and removal of asbestos and backfilling to grade.
Q. And who are you getting the bids
from?
A. We solicited bids from four contractors, including Campanella \& Sons, Lake County Grading, Denovo Group and Sevenson Environmental.
Q. And those are all construction companies?
A. They are construction remediation companies. Lake County Grading, Campanella \& Sons and Sevenson have all done work at the site previously.
Q. And how was one of those construction companies selected?
A. So I would supply the bid documents to Johns Manville from the procurement group. The procurement group would send the bid documents to the contractors. I was a technical reference for the contractors. So as they had questions or wanted to make site visits, they would -- I would facilitate the visits and answer the questions and that's what $I$ did during the bidding.

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When the bids were -- the bids were received by Johns Manville, then I was allowed to look at the bids and made a technical evaluation off the bids. We had bidders come in and were interviewed and then I made technical recommendations as to whether I thought the bidders were qualified to complete the project. Johns Manville then made the decision as to who to -- who to contract with for the work.
Q. All right.

MS. GALE: Mr. Hearing Officer, can I go off the record for a minute? I was so focused on getting him on the Webex, I forgot to hand out the binders.

HEARING OFFICER HALLORAN: Yes. We're off the record.

MS. GALE: Thank you.
(Whereupon, a break was taken after which the following proceedings were had.)

HEARING OFFICER HALLORAN: You may proceed.

MS. GALE: Okay. Thank you.

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BY MS. GALE:
Q. Mr. Peterson, I hope you have the binder that was FedEx'd to you over the weekend.
A. I do have it.
Q. So I would like you to first turn to Exhibit 227 and it's 227-1.
(Document marked as Complainant
Exhibit No. 227-1 for
identification.)
BY THE WITNESS:
A. Okay.

BY MS. GALE:
Q. What is this?
A. These are the bid forms that were completed by Campanella \& Sons.
Q. Okay. And that was submitted to you?
A. Yes, these were submitted to Johns Manville and then Johns Manville provided them to me.
Q. And these are what you reviewed?
A. Yes, they are.
Q. Okay. And other companies also submitted similar bid packages?

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were contemplated by this task?
A. Yes, I am.
Q. Okay. And can you describe to me
what a base bid is?
A. Yes. So when the bid specification went out, it had an original scope of work, it had a scope of work described in it and the base bid that was provided by the contractor was based on that scope of work.
Q. And that was prepared in approximately when?
A. The bid spec started to be prepared in approximately May of 2015.
Q. But that wasn't the end of the work, right?
A. No. I believe it went out for bid in June of 2015 and then there was a bid addendum and it went on from there.
Q. Do you understand the term time and materials?
A. Yes, time and materials is for -was for this project when out of scope items were identified that needed to be completed.
Q. So can you tell me what an out of

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scope item is in relation to the base bid?
A. Yeah, to clarify, that would be information that is not included in the original bid specification. So it would be additional work.
Q. So, to your recollection, for the Site 3 and Site 6, generally speaking, what were some of the things that were big items that were time and materials that weren't included in the base bid?
A. We had work related to utilities. For example, a North Shore Gas line needed to be deenergized and so we had to get access to a valve to close it which required working through a wetland, installing a board road, installing a de-watering system.

We also had other work associated with AT\&T where we had to provide support activities. So when we excavated, we handled the excavated material so that they could do their work. There was also -- we ended up moving everything to this area called the black ditch area, which was different from the original specification where we contemplated the industrial
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canal.
There were also utility poles
that were installed so that some of the underground communication lines could be put overhead allowing us to excavate Site 6. Those are some of the things -- others we had to import quarry sand for backfilling as opposed to using sand from the borrow pit. Off the top of my head, those are a few of the items that were additional.
Q. Perfect. Okay. So then now I want to talk about the construction work. What was the process for determining where removal work was conducted at Site 3 and Site 6?
A. So Site 3 and Site 6 work was completed to create clean corridors for utilities. So that was part of it. And then the other part for Site 3 was to construct a cap across the entire site to be protective of human health and the environment.
Q. And that work was based on prior assessments?
A. Yes, it was.
Q. And what was in those prior
assessments, what was contained in that?

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A. My understanding was the prior
assessment involved sampling and sample results detected asbestos.
Q. And I think you described earlier remedial action work plan, who prepared that work plan?
A. AECOM prepared it.
Q. And what did they do with that work
plan once it was finished?
A. They submitted it to the EPA for approval.
Q. And what did EPA do?
A. They approved the work plan.
Q. Great. So when a work plan is approved, what happens?
A. Work commences.
Q. Yes. So I'm going to turn back to 225 and in your binder is 225-93. It should actually just be the third page in.
A. I have 225-93.
(Document marked as Complainant
Exhibit No. 225-93 for
identification.)
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BY MS. GALE:
Q. And this is a bunch of figures, a list of a bunch of figures, what are these figures?
A. This -- this page identifies the list of figures that the contractor used to base their bid on.
Q. Okay. And then turning to 225-96, which is actually just one page over, what is that?
(Document marked as Complainant
Exhibit No. 225-96 for
identification.)
BY THE WITNESS:
A. This is the site layout for Site 3.

It uses Illinois state plane coordinates northing's to easting's to identify the limit of Site 3. It also uses them to identify the areas of excavation in Site 3. It also -- the figure shows the excavation depth by hatching in Site 3 and the figure also shows utilities in Site 3. BY MS. GALE:
Q. Okay. And I think you said northing's and easting's. Can you describe to me

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further what that is and point out to me where it is on this figure, please?
A. Yes, the table on the bottom right corner shows it as latitude and longitude. That's a misnomer. Those are northing's and easting's, respectfully, in the Illinois state plane coordinate system.

So you use those coordinates with -- so the contractor uses those coordinates with conventional surveying equipment, with a GPS, and goes out to the site and pounds wooden stakes at each one of these locations 1 through 26 using the northing's and easting's to -- to basically lay this drawing out on the ground. That's what this drawing is used for.
Q. Okay. So can you point out for me I guess top left corner there is a number one for -this is an example.

What does that number one stand
for?
A. So in the table that is Boundary

Location 1, the table is latitude 2083126, longitude 1122147. So those are the northing's and easting's and with the GPS equipment you put

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that into the GPS and you can locate Boundary Location 1.
Q. Okay. So AECOM prepared this, but did you review this document in the contract?
A. I did, yes.
Q. And what was its purpose in the contract?
A. The purpose in the contract was to lay out the site so that if during bidding -- it was twofold.

One, the contractor could go out during bidding with the GPS and walk the site and see where the features are and, two, when the work commenced the awarded contractor could install stakes to layout the site in preparation for commencing the work.
Q. Great. Mr. Peterson, can you please point out where the northeast excavation is on this figure, on Exhibit 225-96?
A. Yes, the northeast excavation is bounded by boundary locations 5, 6, 7 and 8. It's up in the northeast portion of this drawing and it's got the diagonal crosshatch.
Q. Okay. Great. I want you to flip to

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two pages or so to Exhibit 225-105.
(Document marked as Complainant
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identification.)
BY THE WITNESS:
A. Okay. I'm there.

BY MS. GALE:
Q. Do you recognize this?
A. Yes, this is a similar drawing for Site 6.
Q. And --

MS. O'LAUGHLIN: What number are we
on?
MS. GALE: 225-105.
MS. VAN WIE: I don't have that in
mine.
MS. BRICE: I have it.
MS. VAN WIE: The last page I have is 225-96.

MS. BRICE: It's actually a bigger
version of the --
MS. VAN WIE: Do you have it?
MR. GRANT: I don't know that I have it. That was under 225.

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MS. GALE: It should be under there.
MR. GRANT: Hold on.
MS. O'LAUGHLIN: Yeah, we have the
small version.
MR. GRANT: Yeah, we're okay.
MS. O'LAUGHLIN: Give us a second to
do so.
MS. VAN WIE: I can see it.
MS. GALE: It should be in there.
Okay. This one is complete. She can have this one.

MR. NISHIOKA: 225 Sections -BY MS. GALE:
Q. Sorry, Mr. Peterson. We're at Exhibit 225-105. Are you there?
A. Yes, I am.
Q. I think you said it was Site 6.
A. Yes.
Q. And you see -- I guess, what is
this? Generally speaking, what does this represent? What do we see here?
A. This represents the areas of Site 6
that needed to be excavated to remove asbestos that was present in the soil.

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Q. And what are the lines that we see, the various color lines? Generally speaking, how would you describe them?
A. So this -- this -- this figure shows the utilities in the colored lines most of which are running east to west and then the excavation depths are shown by hatching.
Q. And as you observe on this figure, does the utility line go the entire length of Site 6?
A. Yes.
Q. All the utility lines go the entire length of Site 6? Let's look --
A. No, not all of them.
Q. Great.
A. Some of them do.
Q. But not all of them, right?
A. That's correct. Not all of them.
Q. And for the construction work that was done by Campanella and the other utilities in Site 6, was that -- where was that work, aboveground or underground?
A. This was underground work. The lines that are shown here are underground lines

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before construction started before some of the lines were rerouted.
Q. Was any work done on the overhead lines?
A. No, we didn't have to move overhead lines. We just had to move underground lines.
Q. And when did construction work on Sites 3 and 6 begin?
A. The earth work started in earnest in 2016. Some utility preparation work started in 2015.
Q. Okay. Great. But the real work like the -- where you had the equipment in there, the big -- I can't remember -- excavators.
A. That started summer of 2016.
Q. Great. I want you to now flip to Exhibit 213 in your binder.
(Document marked as Complainant
Exhibit No. 213 for
identification.)
BY THE WITNESS:
A. Okay. I'm there. BY MS. GALE:
Q. And it's actually the cover page and

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then there is excerpts from this document, do you recognize this document?
A. Yes.
Q. What is --
A. This is the final closure report.
Q. Okay. And the final closure report for what?
A. For the southwest site.
Q. Okay.
A. Site 3, Site $4 / 5$ and Site 6.
Q. And, for the record, is this -- is what is in your binder the entire document?
A. No, it's in a much abbreviated version.
Q. So now I want to flip to 213-1210 in your binder.
(Document marked as Complainant
Exhibit No. 213-1210 for
identification.)
BY THE WITNESS:
A. Okay. BY MS. GALE:
Q. It should be behind a yellow hard-stock.

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activities.
Q. Okay. Great. So now I want you to turn to -- so this is -- and I guess this is an excerpt of your whole report, isn't it?
A. It is. It is just an excerpt.
Q. Okay. So I want to turn to Exhibit 213-1220.
(Document marked as Complainant
Exhibit No. 213-1220 for
identification.)
BY THE WITNESS:
A. Okay. I'm there. BY MS. GALE:
Q. And so it says here Site 3. Generally speaking, what kind of work was done at Site 3.
A. So for Site 3 initially there was site surveying to put the stakes in the ground. There was access that was made which included an access drive. There was also excavation in Site 3 around the utilities, the North Shore gas lines, the Nicor gas lines and the City of Waukegan water main. There was excavation for the northeast excavation area in Site 3. Excavated material was

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hauled -- hauled off to the black ditch area. Excavations were backfilled by placing the geotextile and sand and then the site was capped with geotextile sand, clay, topsoil and seeded.
Q. Okay. And, now, I'd like you to turn to 213-1226.
(Document marked as Complainant
Exhibit No. 213-1226 for
identification.)
BY MS. GALE:
Q. Again, it's behind hard-stock, I

## believe.

A. Yes, I'm there.
Q. And this says Site 6. So, again, similarly, generally speaking, what work was done at Site 6?
A. So at Site 6, there was excavation of asbestos-impacted soil. There was construction of clean corridors. Utilities were rerouted including AT\&T and a fiberoptic cable for ComEd and where excavations, when deep enough, the North Shore Gas line was removed, clean corridor was established for the City of Waukegan water main. After excavation was complete and asbestos had

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been removed, geotextile was placed in the excavation and it was backfilled with sand, topsoil and seeded.
Q. And, big picture, what was -- what was the focus of this work, what was the purpose?
A. The purpose of this work was really twofold. One, to create clean corridors for all utilities. So if utilities needed to be serviced in the future, they could not be covered by asbestos-containing soil and, second, was to have a clean cap or a clean surface for Site 6 where no cap was installed because no asbestos remained to be protective of human health and the environment.
Q. And by cleaning those clean corridors, what did you do?
A. We removed soil from the ground. We had to dewater to remove the soil.
Q. That soil had what in it?
A. The soil had asbestos in it.
Q. Thank you. Staying with Exhibit 213. I want to turn to 1254 , which is the last page in your 213 tab.

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(Document marked as Complainant
Exhibit No. 213-1254 for
identification.)
BY THE WITNESS:
A. Okay. I'm there.

BY MS. GALE:
Q. What is this?
A. This is the survey of Site 3
after -- after the work was completed.
HEARING OFFICER HALLORAN: Ms. Gale,
excuse me, 213?
MS. GALE: Dash 1254. It should be at the backend, the last page of your 213 tab. It better be.

HEARING OFFICER HALLORAN: I'm sorry. Go ahead. Sorry.

MS. GALE: No, that's fine. Heart attack.

MR. NISHIOKA: They're all the same. BY MS. GALE:
Q. I'm sorry. Can you just repeat your answer because I -- what is this?
A. This figure is the survey after the work was completed for Site 3. So it shows the

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limit of the Site 3. It shows the limits of fencing. It shows the Nicor gas line. It shows the North Shore gas line. It shows the City of Waukegan water main.
Q. And you say survey, what do you mean by that, what is a survey?
A. So a surveyor came out with GPS equipment and went to the fence line and marked the limit of it, also marked the limits of the gas line and the waterline. It also shows an area where we placed some stone in the northwest corner.
Q. What methodology or data did the surveyor use?
A. So the surveyor goes out and he uses the GPS equipment to record the northing's and easting's in the Illinois state plane coordinate system and then he plops this on a map. You can see on the drawing itself it has the northing's and easting's. Those are those E11, 22, 200. Towards the bottom or to the right there is an N2083 I think that's a 300 -- the 2083, excuse me, 100 to the right there. So they take those coordinates, they put them into a CAD file and

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locate the site --
Q. Okay.
A. -- and generate the drawing.
Q. Perfect. All right. Mr. Peterson, I want you to flip to 204 in your binder.
(Document marked as Complainant
Exhibit No. 204 for
identification.)
BY THE WITNESS:
A. Okay. I'm there.

BY MS. GALE:
Q. Do you recognize this?
A. I do.
Q. Okay.
A. It's the expert report from

Mr. Dorgan.
Q. Very good. And if you can turn your page to 204-38.
A. I'm there.
Q. What is this -- what are we looking at here at 204-38?
A. This is a figure of Site 3 showing the utilities. It also shows the eastern -excuse me -- the western limits of Site 6.

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Q. And in your experience -- I should back this up.

You started working there in
20- -- working at the Sites 3 and 6 in 2013, right?
A. That's correct.
Q. Okay. And I believe you said during construction you were there on a daily basis, didn't you?
A. I did, yes.
Q. So in your experience looking at the title, does this document appear to accurately represent where you did your work?
A. Yes, it does.
Q. I want to talk about Site 6 and I believe you described that -- the work there was excavation, right?
A. At Site 6?
Q. $\quad \mathrm{Mm}-\mathrm{hmm}$.
A. Yes.
Q. Was there anything else? Excavation
and --
A. There was dewatering for excavation.
Q. $\quad \mathbf{M m}-\mathrm{hmm}$.

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the excerpt of the final report.
A. Two-thirteen. Okay.
Q. And I want to go to 213-38 and it's actually pretty tiny.
(Document marked as Complainant
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identification.)
MS. GALE: So, Mr. Grant, I would
recommend -- we're going to put it up on the screen here. Give us a second. There we go.

Sorry, Mr. Peterson. We're just getting it on the screen so we can more easily see it because as you can tell the typing is very tiny.

THE WITNESS: Okay.
BY MS. GALE:
Q. Mr. Peterson, this table, what is

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it?
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A. This table summarizes the confirmation sampling results for asbestos from Site 6.
Q. And does it also show where the excavation and filling occurred?
A. It does by way of the results, the results show the depth of the clean samples. So

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soil was excavated to that depth and then the grid
ID shows the location.
Q. Right. So the first column is what?
A. The first column is grid ID.
Q. Okay. And then the fourth column
is -- what is that?
A. The fourth column is the excavation
depth.
Q. And then looking at the fourth
column, are these -- I guess how would you characterize these -- these depths, the same or not the same?
A. They vary. They are not the same.
Q. And then let's look at the bottom 213-38. 55S through 58S. What happened here?
A. No asbestos was detected. So there was no removal required.
Q. Okay. So these were not uniform excavations, right?
A. Correct, they are not uniform.
Q. Okay. I want to turn to --

MS. GALE: Mr. Hearing Officer, I
have a ways to go with him. I don't know if you want to do lunch.

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HEARING OFFICER HALLORAN: Let's go
off the record for a minute, transcript, whatever.
(Whereupon, a break was taken after which the following proceedings were had.)

HEARING OFFICER HALLORAN: We're
going to take a lunch now and be back about 1:45.
Thank you.
(Whereupon, a break was taken
after which the following proceedings were had.)

HEARING OFFICER HALLORAN: We're on the record. It's approximately 1:50. We just got back from lunch. Mr. Peterson is up and Ms. Gale is directing him. You may proceed. Thank you.

MS. GALE: Thank you.
BY MS. GALE:
Q. Mr. Peterson, when we were talking before lunch, we were discussing the excavation at Site 6 and I just want to ask you a follow up on that.

## Where were the deepest

excavations in Site 6?
A. The deepest excavations were at the

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west end proximate to Site 3 --
Q. Okay. Great.
A. -- on the south side -- south side of Greenwood Avenue north of Site 3. Those were the deepest.
Q. Excellent. Thank you very much. Now, I want to turn to a few questions about Site 3. I believe you said earlier that part of the work that occurred at the site was putting on the cap and what was involved in putting on that cap?
A. So putting on the cap was we had to -- I mean, I was putting down the geotextile, putting down sand, compacted clay and three inches of topsoil on top and then a vegetative cover on the topsoil.
Q. Great. So that -- so the topsoil, was there something wrong with some of the topsoil?
A. Yes, after the work was completed a subsequent inspection found that there were small pieces of asbestos in the topsoil.
Q. And when did that occur?
A. The inspection occurred in April of 2018.

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Q. Okay. And so we found the asbestos.

I presume it had to be fixed, right?
A. That's correct.
Q. Who paid for fixing that problem?
A. The contractor was responsible for
paying to remove all of the topsoil that was
disposed at the landfill and bring in new topsoil and place it.
Q. Who was that contractor, what was their name?
A. Campanella \& Sons.
Q. Okay. Since they paid for it, were those costs and any invoices sent to Johns Manville?
A. No, they did not invoice Johns

Manville. It was all on their nickel.
Q. Great. Thank you. Now, I want to discuss -- let's actually turn to, again, Exhibit 204 and I want to go to 204-38, which is Figure 1 of Mr . Dorgan's report.
A. Okay. I'm there.
Q. Okay. Looking at this figure, where was the City of Waukegan waterline located?
A. The waterline is located in the

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northwest area of the site. It's the L-shaped trench. It's actually labeled City of Waukegan waterline.
Q. Now, when you first started working at the site, at Site 3, is this location where you believed the waterline to be?
A. No, it is not.
Q. Where did you originally think it
was located?
A. The records that were done showed the waterline being located south of this.
Q. Okay. So the records -- what records are you describing?
A. Excuse me. Those were the drawings in the remedial action work plan that was prepared by AECOM that showed the waterline as being not found it --
Q. And where --
A. It was located south.
Q. Sorry. Where did they get that
information from?
A. I presume that they visited the City of Waukegan and possibly looked at some drawings or maybe there weren't drawings. I'm not -- I'm

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not really sure about how it was determined.
Q. So I guess I take it from that that it's a different location.

How did you learn that it was -originally understood a location was incorrect?
A. As it came time to do the work, we asked the City of Waukegan field inspectors to come out and locate the waterline and they had a different idea of where it was than where it was marked on the drawing. In addition, our contractor had done a waterline repair a year or two previously and marked the repair with a pipe in the ground.

So based on that repair and the field folks for the City of Waukegan, they located the waterline where it is at that time. We then dug some test pits to confirm the location of the waterline.
Q. Okay. And when was this done?
A. I think we found it in approximately

June of 2016 when we found this location.
Q. Okay. Great. Next I want to turn to the northeast excavation. Looking at the same figure, 204-38, can you describe for me where the

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northeast excavation is located.
A. Yes, it is at the northeast area of Site 3. It is actually labeled northeast excavation and it is three rectangles side by side west to east.
Q. To your knowledge and recollection, is this located in the correct location on this figure?
A. It is, yes.
Q. And what work was done within these three, as you say, rectangles?
A. The soil was excavated, material was then -- geotextile was placed in the excavation, it was backfilled with sand prior to capping the site.
Q. And how deep did you have to go in this excavation?
A. I believe it was approximately four feet with the plan. I think one of the samples, maybe the western wall, did not come back -- it still contained asbestos at four feet. So we had to go an additional foot deeper.
Q. And I think you explained that. And do you remember which sample it was that required

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it to be deeper?
A. The samples were taken and looking at this drawing it must have been B3-50.
Q. Great. Same figure, Figure 204-38, I now want to discuss North Shore gas line. Can you describe to us the location of the North Shore gas line running through now -- I guess running through this entire figure?
A. Yes, it enters Site 3 at the western boundary kind of midpoint north to south and then traverses across at an east northeasterly direction. It kind of goes up near that B3-50 sample we were just talking about.
Q. Does it stop at Site 3?
A. No, it doesn't. It extends into

Site 6.
Q. And to your knowledge and recollection, is it depicted on this figure in the correct location?
A. Yes, it is.
Q. And for Site 3 related to the North Shore gas line, what work was done?
A. So Site 3 had to be deenergized --

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excuse me. The North Shore gas --
Q. Dave -- Mr. Peterson, you cut out. So last thing we heard was so Site 3 had to be deenergized. So start other again.
A. All right. Let me just start all over. The work in Site 3 for the North Shore gas line started with deenergizing the line. To do that, we had to go west of Site 3 across the road down in a swampy area. We had to build a board road, we had to put in a dewatering point system to draw the water down so we could get access inside the -- inside the vault box, if you will, to close the valve.

Once that was closed, we were able to go over to the North Shore gas line that was approximately near $04 S$ where it was excavated. The gas line was then cut and capped. This then also severed service further east in Site 6 from the North Shore gas line. Once that was cut and capped, we proceeded to do the excavation around the North Shore gas line constructing the clean corridor. Once that was constructed and geotextile was laid down and backfilled and covered, then the valve off in the swampy area was

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opened and the line was reenergized.
Q. I think -- so that was for Site 3 and then you mentioned location 04 S , where is that located?
A. That's sort of at the end of the green in Site 6.
Q. Okay.
A. On the south side of Greenwood.
Q. Mm-hmm. So the work you described started on the west -- western edge of Site 3 and continued diagonally to Site 6, right?
A. Yes.
Q. And then your description of 04 S , that was in Site 6, right?
A. Yes.
Q. Okay. And then so continuing with my next question related to Site 6, you may have answered this, but I'm going to ask it, what work was done on Site 6 for the North Shore gas line?
A. So after the North Shore gas line was deenergized for Site 6, we proceeded to excavate soil to remove that, which was -contained asbestos. If the excavation was deep enough that we encountered the North Shore gas

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line, then that gas line was removed. And if our excavation was shallow such that we did not encounter the gas line, then the gas line was left in place.

## Q. All right. I want to turn now to

Exhibit 214 in your binder. It should be the last tab.

## A. Okay.

(Document marked as Complainant Exhibit No. 214 for identification.)

MS. TIPSORD: Ms. Gale, can you give me just a minute?

MS. GALE: Yes.
MS. TIPSORD: I just want to check with everyone. We have had a network issue here showing up on the host computer and also in my Outlook. So I want to be sure that everyone on Webex was able to hear us. I'm going to unmute everybody.

MR. PAULEY: It shows me you were --
MS. TIPSORD: Daniel Pauley, I'm
unmuting you.
MR. PAULEY: We can still hear you.

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MS. TIPSORD: Okay. All right. I
just wanted to be sure everything -- everybody is muted again. Okay.

Okay. Everybody is muted again, including Dave. Let me unmute him. Danny, it's not letting me do that. Danny, it's not letting me unmute Dave. Mr. Peterson, if you can do Star 6 on your phone and unmute yourself.

THE WITNESS: I just did it. I'm
here. Can you hear me?
MS. GALE: Yes.
MS. TIPSORD: Sorry. There was a
network issue. It went all the way to my Outlook. It did the same thing on the phone. It just disappeared.

MS. GALE: It's fine. All good?
MS. TIPSORD: We're good.
MS. GALE: All right. Great.
BY MS. GALE:
Q. Exhibit 214, are you there?
A. Yes.
Q. Okay. And, generally speaking, what

## is Exhibit 214?

A. It contains photographs of Site 6

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and Site 3 excavation.
Q. And who took these photographs?
A. I took these photographs.
Q. When did you take these photographs?
A. These photographs would have been
taken -- from the work being completed, it would have been probably August of 2016.
Q. Okay. And how are these photographs maintained or stored?
A. These photographs are saved electronically.
Q. Where?
A. On a computer and backed up.
Q. And what was the purpose of taking
these photographs?
A. This is just part of my routine, daily activity where $I$ photograph work that is occurring. Since work was occurring here, I was taking pictures.
Q. And did you maintain these photographs in your regular course of business?
A. Yes, I did.
Q. Very good. I want to turn to Exhibit 214-14.

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(Document marked as Complainant Exhibit No. 214-14 for identification.)
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BY THE WITNESS:
A. Okay.

BY MS. GALE:
Q. Describe for me what is in this photo.
A. This photo is taken --

MR. GRANT: Let me interrupt -BY THE WITNESS:
A. -- of the excavation in Site 3 -HEARING OFFICER HALLORAN: Mr. Peterson, just hold on a minute, please.

MR. GRANT: Before he start -- they start to use these exhibits, I'd like to know where they were taken because if they're taken outside the area that we all know is described by the Board as the area of IDOT's liability, then they're not relevant in this case.

HEARING OFFICER HALLORAN: Ms. Gale?
MS. GALE: Well, I'm actually going
to ask him where each picture is -- was located as part of my questioning. We think these photos are

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relevant because they demonstrate and they show where the asbestos-containing material was found during the excavations and so really the relevance is to what was underneath each sample point.

HEARING OFFICER HALLORAN: Okay. I will overrule it. Go ahead, Ms. Gale.

MS. GALE: Thank you.
BY MS. GALE:
Q. I'll ask the question so it's clear. Looking at Exhibit 214-14, what does this picture show?
A. This is a picture capturing the excavation ongoing work in Site 6. The excavator is down towards the western limit of Site 6 on the south side of Greenwood and then a little bit of light colored material on the right side of the photo is the -- where the North Shore gas line was terminated. So that's approximately where sample $04 S$ is. So this shows what remains underneath adjacent to Greenwood from the western limit of Site 6 south side of Greenwood up to the North Shore gas line where it was terminated.
Q. And so approximately if you can tell me what sample points you can see in this photo.

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| A. This photo is pointing at |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| approximately sample locations 04 and 05. It is |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| looking north into Site 6. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q. Okay. And what do you see in this |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| photo? |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A. Again, you can see the bank, you can |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| see the industrial debris, including asbestos, |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| well three to five feet below adjacent grade. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| There are also some abandoned electrical conduits |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| running across the ground. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q. Okay. And, again, same deal pull |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| that photo out of your binder and place it next to |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 214-14. And let's turn back to 214-15. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| identification.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BY THE WITNESS: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A. Okay. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BY MS. GALE: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q. Okay. Where -- what does this |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| picture show? |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A. This picture is another picture of |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| the Site 6. It shows the bank. It also shows where the gas line was cut. It shows the gas line |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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that is deenergized coming to the east and it also shows the industrial debris, including asbestos along the wall there just south of Greenwood Avenue.
Q. And you said the gas line, can you just tell us which one that is. I don't know what gas lines look like.
A. Yeah, that yellow gas line is the North Shore gas line.
Q. Great. What sample points can we see in this photo?
A. 04,05 and 06 most clearly.
Q. And I believe -- what in this -what do you see in the embankment in this photo?
A. There is industrial debris, including asbestos. You can see some pipes there and there is other debris, asbestos debris in there.
Q. Same deal. Let's pull this out and put it next to 214-19. Please turn to 214-17.
(Document marked as Complainant
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identification.)

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BY THE WITNESS:
A. Okay. I'm there.

BY MS. GALE:
Q. What are we looking at here?
A. This is, again, a picture looking north in Site 6. It shows industrial debris, including asbestos in the bank below where the three folks are standing and closer to who is taking the photo there is the North Shore gas line.
Q. Okay. And what sample locations do you see in this photo?
A. This is approximately 07 and 08.
Q. And I guess if I'm looking at -there is a green material in the middle, what is that?
A. That is roofing granulars. They make products for roofing and they're shingles. They would put granulars on. So that looks like roofing granulars like when we demolish the silos at the plant that contain the roofing material.
Q. What is in those roofing materials?
A. Johns Manville made roofing
materials out of asbestos. That contains

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asbestos.
Q. And, again, we'll take 217 out and place it next to 215 and I want to turn right in front of you to 2 -- we'll take 214-17 out and place it next to 214-15 and I want you to turn to 214-18. What does this show?
(Document marked as Complainant
Exhibit No. 214-18 for
identification.)
BY THE WITNESS:
A. Just a different angle facing west showing the industrial debris, including the asbestos on the south side of Greenwood in the bank there.

BY MS. GALE:
Q. And so what sample points are we looking at?
A. This is approximately 07 and 08.
Q. Okay. So looking at --

MR. GRANT: Kristen, I don't have
18.

MS. GALE: What?
MR. GRANT: I don't have 18. I
found it. Go on.

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BY MS. GALE:
Q. Now, looking at these five photos; 214-14, 214-19, 214-15, 214-17 and 214-18, please describe for me collectively what these photos show?
A. They show a consistent theme of industrial debris, including asbestos-containing material present underneath the southern -- the bank next to Greenwood Avenue approximately three to five feet below grade. That's what it shows.
Q. Okay. And what would that consistent scene indicate to you?
A. To me, it looks like very similar materials all along the way. It basically looks like it's constructed at the same elevation. So from my perspective, it looks like it was something that was completed at approximately the same time.
Q. And I guess a counter question is what -- if it was completed at a different time, what would you see?
A. I think it would be difficult -- it would be difficult to do this at a different time because you would have to plan to excavate to a

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certain depth to lay down the same or similar material and so that would have required planning ahead of time and if it was -- if it was done at different times, I would -- there would be some changes $I$ would think in industrial debris and in some places like that layering wouldn't -- you know, would be discontinuous. So this looks like it was done at the same time.

MR. GRANT: Can you explain or at least clarify what time you're talking about, different times, same time?

MS. GALE: Can you do it on
your cross?
HEARING OFFICER HALLORAN: You can
do it on cross.
MR. GRANT: Sure.
HEARING OFFICER HALLORAN: Thanks.
BY MS. GALE:
Q. Mr. Peterson, at some point, you became aware of this litigation, is that correct?
A. Yes, that's correct.
Q. And were you asked questions by

Mr. Dorgan about your work at the site?
A. Yes, I was.

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BY THE WITNESS:
A. Okay. I'm there.

BY MS. GALE:
Q. Do you recognize this document?
A. Yes, this is the cost summary I
prepared.
Q. Okay. Okay. So let's turn to Table 1. What does Table 1 show us, generally speaking?
A. Table 1 summarizes various work elements and describes the work elements and shows where costs were incurred for those work elements with respect to whether it was in the bid document where the project was awarded, whether it was a time and materials work for Campanella. It shows engineering and onsite supervision of the work and also includes a summary of other miscellaneous costs --
Q. Now, you use the phrase --
A. -- to tally the total cost.
Q. Sorry. You used the phrase work
element.
Are you familiar with the phrase

## task bucket?

A. Yes, I am. These work elements

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could be called task buckets.
Q. Okay.
A. They're synonymous.
Q. Turn to Table 2. What does Table 2
show?
A. Table 2 is a detailed cost breakdown for the awarded project, so the bid work, and it takes each one of the line items and attributes it to a work element or task bucket and then totals it down at the bottom.
Q. Okay. Thank you. Turn to Table 3, which is the next page. What does Table 3 show?
A. Table 3 shows time and material invoices and attributes every line of every invoice to a task bucket.
Q. Table 3 is kind of big. So we'll skip to Table 4, which is located at 204-79. (Document marked as Complainant Exhibit No. 204-79 for identification.)

BY THE WITNESS:
A. Okay.

BY MS. GALE:
Q. Can you describe to me what Table 4

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shows?
A. Yes, Table 4 shows a breakdown of engineering, like office type duties, compared to onsite resident site engineer supervision crew, guardhouse operation, for each -- each item.
Q. And just for the record for everyone so when they're reading this Table 4, what does D -- at the top left corner DMP, PE PC stand for?
A. That's my company. David M. Peterson, PE PC.
Q. Thank you. And turning to Table 5, which is on Page 204-90.
(Document marked as Complainant Exhibit No. 204-90 for
identification.)
BY THE WITNESS:
A. Okay.

BY MS. GALE:
Q. Generally speaking, what does this show?
A. This shows other costs associated with the project. It shows utility costs that were invoiced from AT\&T to North Shore Gas, it shows water discharge costs to North Shore Water

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Reclamation District, it shows some fence construction costs and some tree clearing costs.
Q. And looking at all of these tables, Mr. Peterson, that you prepared, do you believe you accurately reflected the costs for Campanella's services related to Sites 3 and 6?
A. Yes, I do.
Q. Same question. In looking at these tables that you prepared, do you believe you accurately reflected the costs for your services relating to Sites 3 and 6?
A. Yes, I do.
Q. Looking at these Tables 1 through 5, Mr. Peterson, how many hours did you spend to create this -- to work on these tables?
A. It took a long time because I went through every invoice and every line item and reconciled it with progress reports and photos and I would say on the order of a couple hundred hours.

## Q. Excellent.

MS. GALE: Nothing further. Thank
you.
HEARING OFFICER HALLORAN: Thank

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you, Ms. Gale. Mr. Grant?
MR. GRANT: Yes. Can I have one second?

HEARING OFFICER HALLORAN: Yes.
CROSS E X A M I N A T I O N

BY MR. GRANT:
Q. Mr. Peterson, can you see me?
A. Your head is cut off. I can see your shoulders.
Q. I probably look better that way. I'm Chris Grant. I'm with the Attorney General's Office and I represent IDOT.

Let me start with the question that I tried to get Ms. Gale to ask about. Looking at -- if you can pull out those pictures if you still have them, it would be great; 214-14, 214-15, 214-17 and 214-18, do you have those?
A. I do, yes.
Q. Okay. Now, you mentioned that it was your belief that this was -- this all happened at the same time, $I$ can't remember exactly what your words, but what do you mean by the same time?
A. The same mobilization. In other words, it was excavated, work was done, it wasn't

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half done, people went away, came back months later and did it again.
Q. Okay. You're -- you mentioned looking at -- let's go to 214-14. You observed industrial debris and asbestos and you even specified the depth that it was buried from looking at this picture.

I'm looking at it and I just see
what looks like a hole. Where are you seeing such details like that there is asbestos in here in 214-14?
A. I mean, I was there. I was walking
in that trench. I was up close to it. The picture doesn't show me being up close to it, but I was right there.
Q. So did you take samples of the material and have them -- have them tested?
A. No, I didn't.
Q. Why not?
A. Because we were excavating and backfilling.
Q. Okay. In all the other photos that you've -- that you've -- not all the other ones, but in the ones we're talking about which is 14,

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15, 17 and 18 where you've identified asbestos, is that true of all of those excavations?

MS. GALE: Objection. Vague.
BY THE WITNESS:
A. Is what true?

HEARING OFFICER HALLORAN: Hold on.
Ms. Gale has an objection.
BY MR. GRANT:
Q. All right. Is -- is it true of all those other excavations where you've identified asbestos that you didn't take any samples?

MS. GALE: Objection. Vague all those other excavations. I don't understand.

MR. GRANT: Fine. Let's do it picture by picture. That ought to save time. BY MR. GRANT:
Q. In 214-15 --
A. Okay. 214-15.
Q. -- you've identified asbestos as well as industrial debris, I believe, in there, did you take samples at the location to verify that it was asbestos?
A. I did not.
Q. 214-17 where you have also

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identified general debris as well as asbestos.
A. I did not sample the wall.
Q. You did not sample. And the same
for the next one 214-18?
A. I did not sample the wall.
Q. Okay. And for the same reason that
you were in the middle of an excavation, you didn't have time to take samples?
A. There was no -- it wasn't part of our scope of work. Our scope of work was to excavate where samples had been taken and asbestos had been found and so this whole trench was excavated because there were prior samples collected that determined there was asbestos there.

Our purpose was to excavate Site
6 to remove the asbestos, provide a clean corridor and the limits of that were predefined and so that's what we did.
Q. Now, when -- when the initial
evaluation is done -- was done on this and the engineering evaluation and cost analysis that was submitted to U.S. EPA, they took samples, identified the type of asbestos-containing

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material and then also had laboratory analysis done of those samples, didn't they?
A. I wasn't part of the ECA. So I don't -- I don't know what they did.
Q. Are you familiar with Sites 4 and 5?
A. I am.
Q. Okay. There was all sorts of buried material, there was buried transite asbestos, buried roofing material, brake shoe liners in Sites 4 and 5 as well, correct?

MS. GALE: Objection. Relevance.
HEARING OFFICER HALLORAN: Mr.
Grant -- overruled. You may proceed.
BY THE WITNESS:
A. The answer?

BY MR. GRANT:
Q. Yes, please.
A. That material was present in Sites

4 and 5.
Q. Are you familiar with Site 2, which is outside of the southwest site's area, but is east of Site 3?
A. Yes, I am.
Q. Okay. And asbestos-containing

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material was found there on the surface and then also subsurface, correct?

MS. GALE: Again, objection
relevance. This lawsuit isn't about Site 2 .
MR. GRANT: No, it's about his
knowledge of asbestos.
HEARING OFFICER HALLORAN: I'm
sorry, Mr. Grant.
MR. GRANT: It's about his knowledge of asbestos and subsurface asbestos.

HEARING OFFICER HALLORAN: Yeah.
You know what, he can answer if he's able.
Thanks. We have to move this along.
BY THE WITNESS:
A. I did not do the sampling at Site 2 and I did not manage the remediation at Site 2. So I did not see that Site 2 up close and personal.

BY MR. GRANT:
Q. So you haven't visited Site 2?
A. Excuse me. I know where Site 2 is.
Q. Okay.
A. What was your question?
Q. That was my question. It was have

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you visited it first?
A. Yes, I know where Site 2 is.
Q. And are you aware of the asbestos
contamination at Site 2 ?
A. To my knowledge, the asbestos
contamination was -- the threat to exposure was abated some time ago.
Q. Have you heard of any IDOT involvement, and by that, I mean any road construction, any movement of the surface in Sites 4, 5 or 2?
A. No.
Q. In all three of those sites, 4, 5 and 2, they are outside of the Johns Manville facility, correct?
A. That's correct. Two is partially.
Q. What I mean --
A. Not completely.
Q. Yeah. What I mean is outside of the former Johns Manville facility.
A. Site 2 is partially on Johns Manville property.
Q. I believe that you stated you
assisted Mr. Dorgan in providing the cost numbers

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for -- for his evaluation the work, the cost numbers for the work that you oversaw at the site?
A. That's correct. I prepared a cost summary for Mr. Dorgan.
Q. And the numbers that you prepared for Site 3, that was for all of Site 3, correct?
A. Yes, that's correct.
Q. And that would include the -- the Nicor gas line in Site 3 ?
A. Yes, that's correct.
Q. Okay. And in the numbers that you provided to him from Site 6, that included also the northern border of Greenwood Avenue for remediation at that location?
A. Yes, the northern shoulder of

Greenwood Avenue.
Q. Are you familiar with --
A. Yes.
Q. I'm sorry. Are you familiar with the Board order that was issued on December 15th, 2016, in this case?
A. I know of it. I have not read it.
Q. Okay. Have you -- have you made

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that -- have you been asked to make any effort to limit the costs that you reported to Mr . Dorgan pursuant to the findings of the Board order?
A. No, I presented total costs.

MR. GRANT: Can $I$ have one minute,
Mr. Halloran. Just one minute, Mr. Peterson.
(Whereupon, a break was taken
after which the following proceedings were had.)

MR. GRANT: Back on, please.
HEARING OFFICER HALLORAN: Go ahead.
I'm sorry.
MR. GRANT: No, it's okay. I
stopped.
BY MR. GRANT:
Q. Mr. Peterson, are you familiar with the north side of Greenwood Avenue on Site 6?
A. I am, yes.
Q. Weren't there multiple layers of
pavement on the north side of Greenwood Avenue?
A. Partially adjacent to Greenwood Avenue.
Q. Doesn't that indicate that there were several road projects over a period of time?

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even hold up to your screen, point out for the people in the room where you see -- where you see asbestos-containing materials?
A. It's kind of hard to do.
Q. Yeah.
A. There's a circle right here. You can see that's a pipe, there is a piece of pipe down here.
Q. So let me stop you for the record. In the circle you see, is it directly below the shelf underneath the road below -- I don't even know what these things are called. Those camels, is that the circle you're seeing?
A. Yeah, the barricades.
Q. The barricade if you go down, you know, below the barricade, is that the circle that you're describing the furthest right barricade?
A. Yes.
Q. Okay. And then keep on describing for me where you see the other pipe that you believe -- that you see asbestos-containing material?
A. If you go further down towards this corner of the picture.

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Q. The bottom right corner?
A. Horizontal. Bottom right corner.
Q. $\quad \mathbf{M m}-\mathrm{hmm}$.
A. I don't -- I don't know how well
this is working.
Q. I got it. And that just above the
shadow --
A. Yeah, that's right there. The picture is kind of a low resolution.
Q. Sure.
A. But those are two obvious pieces.
Q. Right. And in your experience in doing projects like this -- I guess I'll back it up.

Mr. Peterson, how much
experience do you have in observing asbestos-containing materials in soil?
A. Well, I've been observing asbestos material out here since the building demolition and we've gone through several mediation projects to close lagoons where we have dug into soil and identified asbestos of all types. So I'm -- for 20 years, I have been observing asbestos out at this project.

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A. We did not need to sample the side wall of the excavation along Greenwood Avenue. That was not part of our scope of work.
Q. Right. Because who did?
A. Nobody sampled the side wall along Greenwood Avenue.
Q. Why were you excavating there?
A. We were excavating because there were samples selected that contained asbestos and we were removing those.
Q. Okay.
A. But we were not charged with digging up Greenwood Avenue.
Q. Right. But you were charged with digging up just south of Greenwood Avenue, correct?
A. Correct.
Q. And why -- why were you excavating there?
A. Because there were samples that contained asbestos and the asbestos had to be removed.
Q. Thank you.

MS. GALE: Nothing further.

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A. That's a small pipe. It's not a pipe big enough to be used as an auto bumper.
Q. But it's not split, it's intact, isn't it, as an attached?
A. I'm sorry. It's not --
Q. It's -- I'm sorry.
A. It's not what?
Q. It's -- it's intact, it's not split.
A. Oh, like cut in half?
Q. Yes.
A. Is that what you're referring?
Q. Yes.
A. Yes, I would say -- I mean, that's not one of the half -- that's not a pipe that could be cut in half to be used as a parking bumper if that's what you mean. It's a small pipe. That wouldn't serve that purpose, I don't believe.
Q. And pipes are made out of a number of different materials not just transite, correct?
A. I don't know that Johns Manville made pipes at this plant out of materials that did not include asbestos.
Q. Okay. Do you know how this material

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got into the excavation?
A. I do not know how this material got into the excavation.

MR. GRANT: That's all I have.
HEARING OFFICER HALLORAN: Thank
you.
MS. GALE: One final question. I should have asked him before and I apologize.

F U R T H E R E X A M I N A T I O N BY MS. GALE:
Q. In Site 6, when you did the excavation, were samples taken at the bottom of the excavation or confirmatory samples taken at the bottom of the excavation?
A. Yes, confirmation samples were taken because we had to demonstrate the asbestos was no longer present on the bottom.

MS. GALE: Thank you. We're good.
MR. GRANT: I think we're through.
HEARING OFFICER HALLORAN:
Mr. Grant, you're done? Mr. Peterson, I have a question. You stated that you went to the University of Michigan.

MR. GRANT: I did. Go blue, baby.

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HEARING OFFICER HALLORAN: And you
live in the Buckeye state, how's that working?
THE WITNESS: I'm sorry. What's
that?
HEARING OFFICER HALLORAN: And you
live in the Buckeye state?
THE WITNESS: Oh, my gosh it's
horrible. The last 19 years with, what is it, two wins? I get pummeled every single November. It's now I'm just hoping since it's in December I have a chance. There might be enough snow to slow the Buckeyes down. That's what I'm hoping for.

HEARING OFFICER HALLORAN: Good luck and thank you, Mr. Peterson.

MS. GALE: Thank you.
MS. BRICE: Thank you.
THE WITNESS: All right. Thank you,
buh-bye.
HEARING OFFICER HALLORAN: We're off the transcript.
(Whereupon, a break was taken
after which the following
proceedings were had.)

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WHEREUPON:
DOUGLAS DORGAN
called as a witness herein, having been first duly sworn, deposeth and saith as follows:

D I R E C T EXAMINATION
BY MS. BRICE:
Q. Good afternoon, Mr. Dorgan.
A. Good afternoon.
Q. Okay. Could you please state your name for the record.
A. Douglas G. Dorgan, Junior.
Q. And you testified for Johns Manville in this case before, correct?
A. That's correct.
Q. And I'll refer to that as the
liability hearing.
A. That's fine.
Q. You were found to be an expert for
purposes of offering your opinions in the
liability hearing, is that right?
A. That's correct.

MS. TIPSORD: Off the record for
just a second.

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(Whereupon, a discussion was had off the record.)

BY MS. BRICE:
Q. Mr. Dorgan, can you just briefly describe your educational background for us.
A. I have a Bachelor's of Science in Earth Science with a minor in Geology and I have a Master of Science in Geography with a concentration in environmental science.
Q. And can you tell us a bit about your work history.
A. I've been an environmental consultant since roughly 1986. Early in my career, I did a wide variety of work including environmental/civil engineering surveying. As I progressed in my career, $I$ began doing and concentrating more on the environmental side and in that capacity I've managed environmental investigations, I have managed design of remediation systems, I have prepared bid documents, I have let out bids, I have evaluated bids, I have evaluated pay requests under those bids and a number of different times I have been involved in allocating costs related to the

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implementation of environmental work.
Q. And what is your current title?
A. Co-president.
Q. Co-president of what?
A. Weaver Consultants Group and its
affiliated entities.
Q. Okay. And I did what Kristen did.

I forgot to pass out the binders. Sorry about that.

HEARING OFFICER HALLORAN: We can go
off the record.
(Whereupon, a break was taken
after which the following proceedings were had.)

BY MS. BRICE:
Q. One thing. You are -- are you familiar with the opinion in this case?
A. With the opinion?
Q. The Board's opinion in this case?
A. Yes, ma'am.
Q. And have you read it?
A. Yes, I have.
Q. And what generally did the Board
conclude?

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A. That IDOT was found to have violated
the act in allowing the placement of asbestos materials as part of their construction project at Greenwood Avenue.
Q. And where -- any other spots?
A. Well, between both Site 6 and Site 3, various areas on both of those two sites.
Q. Could you please turn to Exhibit
204. Do you recognize this?
A. Yes, I do.
Q. And what is it?
A. This is my June 13th, 2018, Expert

Report of Douglas G. Dorgan, Junior on Damages Attributable to IDOT.
Q. Okay. And does it contain your --
at least your initial opinions in this case?
A. Yes, it does.
Q. And you -- you actually had a
rebuttal report in this -- I'm sorry. You had -let's just back up. Let's keep going.

Can you turn to 204-4, please.
Here you lay out your various qualifications in 204-4 and 204-5, correct?

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> (Document marked as Complainant
> Exhibit No. $204-4$ and $204-5$ for
> identification.)

BY THE WITNESS:
A. That is correct.

BY MS. BRICE:
Q. And, in particular, are some examples of your experience that are relevant to your work in the damages phase of this matter?
A. I have previously completed projects where environmental work had been completed. There were various parties that were involved, that had been funding the cost of the cleanup and part of my responsibility was to evaluate both contribution and allocate out the cost based upon the contributions that were made to the cleanup scope of work.
Q. What about with respect to your engineering -- your background on dealing with environmental cleanups and surveying and that sort of thing?
A. It's just been relevant to a lot of the technical issues that are involved in this particular matter in terms of your original road

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construction that took place, the various discussions around some of the figures, the elevations of where things happened. It's all been very relevant and contributory.
Q. And your experience in that area goes back how far?
A. $\quad 1986$.
Q. On 204-5, you have a section about information considered.

Can you briefly describe for us what information you considered in comparing this report -- preparing this report?
A. Yeah. So as I lay out here of course I looked at the documents that had been prepared historically, including those that had been generated and used in the earlier phase of hearing, reviewed the depositions that had been taken by a number of the witnesses that were called, reviewed the work plan and the final report that was generated for the work that was implemented and then, of course, spent a lot of time looking at the costs that were incurred as tabulated by Dr. Ebihara and Mr. Peterson.
Q. Okay. With respect to the

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information you relied upon, is this the type of information reasonably relied upon by experts in your field?
A. Yes.
Q. Since the parties have stipulated to the costs incurred, I'd like you to briefly explain what you did briefly to determine that JM occurred $\$ 5,579,794$ in response costs at Sites 3 and 6?
A. Well, basically, I asked Dr. Ebihara and Mr. Peterson to tabulate their costs that they had been respectfully managing and they provided that to me. Of course as we have previously heard, there were a couple variations on that as I was asking questions and having those questions responded to. And then once I had them, I had to try to make sense of them. There was some strong alignment even with what was originally given to me. I believe Dr. Ebihara kind of categorized it as categories. Mr. Peterson categorized it as work elements. I coined the term task bucket just for purposes of making sense out of how the work was grouped between the two parties that were managing different aspects of the work.

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#### Abstract

Q. If you look at Page 9 through --204-9 through 204-13 of your report. And I'm going through this quickly simply because most of this is stipulated to.

Can you just -- what are these


## pages detailing?

(Document marked as Complainant
Exhibit No. 204-9 - 204-13 for

## identification.)

BY THE WITNESS:
A. So these pages are basically
grouping the different types of costs in terms of broader categories before splitting them into the task buckets. So here I'm looking initially at the professional engineering services, which was primarily the work that Dr. Ebihara was responsible for through his involvement with the project. I then looked separately at the construction services.

Those were more related to the work that Mr . Peterson had overseen and then the way that $I$ broke that out is I kind of looked at the contractor's costs, which were here at the top under 2.1.2.1 Campanella -- and performed by

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Campanella \& Sons and then Mr. Peterson's company had provided onsite management services. So I looked at his costs and grouped them together and then there were a series of incidental costs that were more directly related to the utility companies and some of the fencing that had to be put up around the site and then finally I was provided with some cost detail for Donald Manikas who had provided some legal support on the utility work and then finally U.S. EPA's regulatory oversight costs were provided and I included those in the tabulation as well.

BY MS. BRICE:
Q. And why did you ask for a tabulation of all of the costs for Site 3 and Site 6?
A. I needed to have a starting point to understand what the total cost, what the total spending was on Site 3 and Site 6 so $I$ could begin trying to pull out those that were not related to the Board's opinion in terms of their findings in the earlier hearing.
Q. If you take a look at 204, just turn the page, a couple of pages 13 and 15 there are -you have your discussion of $I$ guess it's 13, 14

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and 15 discussion of reasonableness, which, again,
is stipulated to.
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                    Can you just really briefly
    tell us what you did to come to that opinion?
A. Well, you know, obviously, first, I
wanted to know I had everything and that I was
tracking it accurately. So I was creating some
tables that allowed me to crosscheck my
tabulations. I then kind of looked at the costs
themselves just to get a feel for whether they
were reasonable in terms of what I could have
expected for the type of work that was implemented
and I lay out here a number of bases for coming to
the conclusion that I felt that they were
reasonable and then after I had done that I began
looking at whether or not the costs had actually
been paid and found that they had been in each
instance.
Q. Okay. Let's go to 204-16 of your report.
(Document marked as Complainant
Exhibit No. 204-16 for
identification.)
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BY MS. BRICE:
Q. You say that after the cost had been allocated into the task buckets, you needed to, quote, determine how best to align the task buckets to the Board's finding of liability which focused on boring locations, how did you do this?
A. Basically what I looked at was the Board had identified a series of locations that they had ruled as being IDOT's responsibility for the conditions that existed at those locations. I then considered the work that ended up being done as a result of the presence of those locations in terms of, you know, at those locations there was certain work that was caused by the fact that the conditions existed at the locations where the Board had ruled the asbestos could be present. So that's how $I$ began doing my attribution of costs that were incurred at both sites.

MS. O'LAUGHLIN: I'm going to lodge an objection here. Some more foundation about how you allocated your costs -- I get with the borings and things like that, but the last thing I think that we need some more foundation in your testimony today.

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Q. Okay. I want you to orient us a little bit and I'm going to serve as your pointer and I'm going over here so you guys can see.
So where -- where is the Johns

Manville, you know, former site?
A. North and east of these two.
Q. So up here --
A. That's correct.
Q. -- is that right? And then where is Lake Michigan?
A. East.
Q. So it's over here?
A. Correct.
Q. And so is this Site 3 right here, this kind of -- I don't even know what that is a trapezoid or something like that?
A. Yes, that's Site 3.
Q. That's Site 3. And then you've got 0393 is here with this black line, is that correct, right here on the northwest portion of Site 3?
A. That's correct.
Q. And then Site 6 starts here a little bit west of $01 S$ and 01 N , correct?

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embankment.
Q. And what -- what is this up here, this backwards L?
A. That's the City of Waukegan waterline.
Q. And then here -- down here on your legend you say, "Note sample locations with ACM detected above or equal to 0.2 percent and/or visibly observed ACM are shown," do you see that?
A. I do.
Q. Okay. Why -- why did you pick those sample locations to go on your map?
A. Well, the original work that had been done at the site had been -- the site had been graded out and there were samples collected from every grid. So there was a lot of sampling data that did not show asbestos. These were the ones that had. So I thought they were relevant to making the demonstration of where asbestos was detected on the property.
Q. Okay. Thank you. One more thing about this.

> So they're boring locations in

Site 3 with Bs on them, B3s on them. What kind of

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borings were those?
A. Those would have been soil borings.
Q. Okay. And how big is a soil boring?
A. Most of the time they're about two inches in diameter.
Q. Two inches in diameter. And how do you take a soil boring?
A. You pound a sampling device down into the ground. As you pound it down, there's an opening at the end and the soil goes up into the device and then when you bring it to the surface you crack it open and then you can see the soil profile from the depth that you've just collected the sample from.
Q. And is -- is the -- is the two inches representative of how much contamination is located in and around that particular area in the environmental field?
A. Typically, the boring and the sample that you pull ends up being representative of a larger area, not just the specific location where the sample was pulled.
Q. Okay. And then up here in this 01S through 08S, 01N through 8 N and then $I$ think there

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is some $S$-- S3-50s and a few other in here, what kind of boring locations were those?
A. Those were test pits.
Q. Okay. And how big is a test pit?
A. It can vary. Typically, it's the width of an excavator bucket to some usually four feet, five feet by five feet. It can vary, but depending on the excavator used.
Q. Okay. And is that sample done with the test pit, is that necessarily representative of what is below the sample?
A. Below --
Q. How much -- how much contamination is right around the sample or is part of the sample?
A. Again, usually the sample that is collected from a test pit is going to be a sample. So, therefore, it's representative of the materials around it, not necessarily just the sample itself.
Q. Okay. And Dorgan Figure 1 here, how -- how is this created? We have had some discussion about AutoCAD and that Mr. -Dr. Ebihara gave you his AutoCAD, what does that

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mean to you? What happened?
A. So -- there's a notation at the
bottom of our figure that references the fact that we had -- we had based our drawing off of AECOM's original DWG. That's a file format used for AutoCAD. So we're able to receive a DWG file, we're then able to open it in our own AutoCAD software and then as was described earlier in that file there is a series of layers and we can choose which layers to look at and which layers to look at.

The reason they're in layers is because if you put everything into one layer you would hardly be able to see anything because there would be so much information. So what you do is you put certain information on each layer and then you choose what layers you're going to look at in terms of what you're trying to represent.
Q. Does the -- when you get the DWG file from Dr. Ebihara and you put it into your AutoCAD, is it going to be showing the same thing it would be showing in his AutoCAD?
A. Yes.
Q. Okay. And will it show -- will the

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state plane coordinates automatically be placed on
your figure?
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A. Yes.
Q. And, again, the state plane
coordinates are what?
A. They're a geographic information system that is used to ground -- ground locate certain features relative to survey information so that you can be precise in terms of where things are actually located.
Q. Okay. So we had earlier, and I'm doing this for purposes of brevity, I think it was an exhibit that was a screenshot of the AutoCAD, do you remember that?
A. Yes.
Q. That is not the AutoCAD drawing that you were using, that screenshot itself, to create the maps and figures in Dorgan 1, is it?
A. I didn't actually see the
screenshot. So I'm not actually sure what it showed.
Q. Here, I think it is 229 F something. So this was --

MS. BRICE: Do you have it?

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that was taking place around kind of a more specific work effort that was occurring at the site.
Q. Turn to 204-7 in your report,

## please.

(Document marked as Complainant
Exhibit No. 204-7 for
identification.)
BY MS. BRICE:
Q. Here, you discuss the history of the remedial action process. Can you please summarize that for us?
A. So obviously there had been a number of investigations that occurred at the site. Things really kind of got going when the engineering evaluation and cost analysis, which we had been earlier heard as an ECA was submitted by Johns Manville to U.S. EPA. U.S. EPA commented on that, went through a series of revisions before it was finally summarized and then under that there had been a series of options considered for what was going to be done for corrective action at both Sites 3 and 6 and then based upon that back and forth EPA issued what's referred to here as an
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enforcement action memorandum and that's what really drove the work that ended up having to be done at the site. It was the enforcement action memorandum that really became the basis for developing the scope of work that was eventually written into the removal work plan that was prepared by AECOM.
Q. Okay. And let's turn to Exhibit 65, please.
(Document marked as Complainant
Exhibit No. 65 for
identification.)
BY MS. BRICE:
Q. Are you there?
A. Yes, I am.
Q. Is this the enforcement action
memorandum?
A. Yes, it is.
Q. And this was written by U.S. EPA?
A. That's correct.
Q. Okay. If you turn to Page 5 --

65-5?

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(Document marked as Complainant
Exhibit No. 65-5 for
identification.)
BY THE WITNESS:
A. Yes.

BY MS. BRICE:
Q. What are the utilities on Sites 3
and 6 reflected in this document?
A. The Site 3 utilities are the North Shore gas line, the City of Waukegan waterline Commonwealth Edison both underground electric and fiberoptic lines, the Nicor gas line and then a series of AT\&T telephone cables.

And then on Site 6 we have more AT\&T telephone cables, the North Shore gas line, the City of Waukegan waterline and then, again, Commonwealth Edison both underground electric and fiberoptic lines.
Q. Okay. Can you turn to 65-16,

## please.

MS. BRICE: And, Drew, if you can please pull that up for us.

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(Document marked as Complainant
Exhibit No. 65-16 for
identification.)
BY MS. BRICE:
Q. If you'll go down to maybe it's the second to last sentence. It starts with "Therefore" under B. Sorry.
A. I see it.
Q. Okay. Can you read that to us?
A. It says, "Therefore, excavation of clean corridors for all such utilities must be provided as soon as possible to prevent potential release of $A C M$ and asbestos fibers.
Q. What does this mean to you?
A. Basically, that means that they -U.S. EPA was requiring that a clean corridor be created for certain utilities as a result of the asbestos that was identified in proximity of the utilities.
Q. Right. And in the sentence right before that, it talks about "In the event of a breach or other loss of integrity, pressurized utilities and underground utilities also have the potential to force overlying soils to the surface

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resulting in the potential release of $A C M$ and asbestos fibers," do you see that?
A. I do.
Q. Now, if you can turn to 65-11,
please.
(Document marked as Complainant
Exhibit No. 65-11 for
identification.)
BY MS. BRICE:
Q. This is just by way of example. This is -- what is this? They have Site 3 modified alternative 2 , what is this? Is this EPA -- what is EPA doing here?
A. They are basically laying out certain conditions relative to the alternatives that have been presented in the ECA.
Q. Are they making a decision as to what needs to be done?
A. That's correct.
Q. Okay. And what do they say onsite

3B utility areas, means needs to be done?
A. Well, as it says here "Within 90
days of approval of the work plan, excavate soil
and sediments contaminated with ACM and/or

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asbestos fibers to a minimum depth of two feet below each utility line and extending to the depth requested by the owner of the utility line with placement of a continuous barrier at the base and sides of the excavation to inhibit further excavation and/or exposure beyond the clean fill and a minimum width of 25 feet centered on each utility line and clean backfill to provide a clean corridor for utility maintenance on Site 3."
Q. So what is this telling you about which utilities needed clean corridors?
A. Basically all of them.
Q. And was there anything specific -is that because -- why is that? Because they had asbestos detected near them?
A. That's correct. And what they're trying to do is prevent the possibility that in the future workers come to maintain those lines and at that point they're not dealing with hazards associated with potential asbestos exposure.
Q. Okay. If you can turn to 79 --

Exhibit 79 in your book, please, for me and actually 79 -- and what is this?

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(Document marked as Complainant
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identification.)
BY THE WITNESS:
A. This is a correspondence from Bryan

Cave on behalf of Johns Manville responding to the administrative order on consent. Basically lodging a dispute concerning the enforcement action memorandum that U.S. EPA had issued. BY MS. BRICE:
Q. Okay. If you turn to Page 79-7 under U.S. EPA action memorandum?
(Document marked as Complainant
Exhibit No. 79-7 for
identification.)
BY THE WITNESS:
A. Yes.

BY MS. BRICE:
Q. Second sentence, can you read that into the record, please.
A. Starting with "The new remedy"?
Q. Yes, please.
A. $\quad$ The new remedy expands the

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necessary excavation to include clean corridors
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for all utilities regardless of whether impacts from ACM were noted in the overlying soil during the assessment."
Q. Okay. Is it your understanding of what occurred, meaning that there was asbestos in one part of the -- one part of the line and then they had to take out the entire line?
A. They had to create a clean corridor for the entire line.
Q. So that's your understanding of what

## U.S. EPA was requiring?

A. That's correct.
Q. If you can turn to 120, please. And have you seen this before?
(Document marked as Complainant
Exhibit No. 120 for
identification.)
BY THE WITNESS:
A. Yes, this appears to be the EPA response to the ECA. BY MS. BRICE:
Q. And if you turn to Page 120-3. Paragraph 8 if you take a second and read this and then if you can summarize for us what -- what U.S.

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EPA is saying here?
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identification.)
BY THE WITNESS:
A. Well, they're taking a relatively conservative approach. They recognize that the ACM across the site is somewhat sporadic, both in location and at depth and because of that they are still requiring that the full utility clean corridors be -- be advanced. BY MS. GALE:
Q. Okay. What about in the sampling locations, so for the grids that contain ACM. It says the boundary of ACM-containing material should be extended all the way to the nearest non-detect sample, what does that mean?

MS. O'LAUGHLIN: I'm sorry. Where are you?

MS. BRICE: 120-3 middle of
Paragraph 9.
BY THE WITNESS:
A. Basically what it is saying is there is no asbestos at a certain location and at

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another location it's deemed to be there was no asbestos detected. So they're taking the materials out up to that next clean sample being conservative that -- wherever that demarcation line is between, it's been captured. BY MS. BRICE:
Q. So if one sample was contaminated, they had to clean up everything -- in a grid, they had to clean up everything within that grid, is that correct?
A. That's correct.
Q. And then everything else around it until they got to a clean grid?
A. To a clean grid.
Q. Okay. After creating this map, Dorgan Figure 1, you say you defined what you called the IDOT areas of liability, what do you mean by this?
A. So, for me, the IDOT areas of liability $I$ started with the borings that had been identified in the Board's ruling and then I considered what work had to be done because of the presence of the asbestos in those specific borings and I, therefore, attributed that work that was a

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result of and had been caused by the presence of the asbestos at the locations that the Pollution Control Board had identified them as the IDOT area of liability.
Q. Okay. Let's -- let's walk through this. 204-16.
A. Just one second, please.
Q. Take a look at 204-16. Site 3 IDOT
area of liability. Do you have that?
A. Yes, I do.
Q. You start out and you identify an area of liability with respect to Parcel 0393, can you explain this, please?
A. Yes. Well, first of all, a number of the borings that had been identified as having contained asbestos were located within 0393 and then I also understood that IDOT had been determined to have been owner of and in control of Parcel 0393. So all of the activities that took place within 0393 I found to be an area of liability for IDOT.

MS. O'LAUGHLIN: Objection. I'd
like to lodge an objection here on relevance. The Board's order was very clear on what areas should

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be included and any testimony regarding areas outside of that area in 0393 is not relevant to this proceeding.

HEARING OFFICER HALLORAN: Ms. --
MS. BRICE: Yes, I completely
disagree. I think the Board's order is clear in the other direction in that it's all about the interest or control with respect to 0393. That's by which they were found liable and at the time of the first hearing the Waukegan waterline location was not known as we have already heard testimony about and some of the work that was done -- the ramp had not been done and if you read the intent of the Board's decision a violation under 21 (a) relates to if you own or control something and they said the Parcel 0393 was owned and controlled by -- or they held a possessory interest in -sorry. Own is not accurate. And that that is how Mr. Dorgan interpreted it, it's how I interpreted it and I think that that's obviously relevant to the -- the Board can make up its mind as to how that happens, but I think the evidence should come now.

> HEARING OFFICER HALLORAN: As

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before, I said the order, the 2016 order, it was a little confusing and -- but based on what they had to work with, it's understandably so. I've given so far, and I have given, the parties a little latitude. The Board can interpret their own order and move forward. Because $I$ know we don't want to come back here again. So I think we should -- we should go with it and have the Board decide what they meant in the 2016 order.

MS. BRICE: Thank you, Mr. Halloran. HEARING OFFICER HALLORAN: You may proceed. Thank you.

MS. BRICE: Okay.
BY MS. BRICE:

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Q. So you have 0393 as part of your IDOT area of liability and then you have certain boring, sample borings, as part of your IDOT area of liability, can you explain that, please.
A. Yeah, these were specifically referenced in the Board order B3-25, B3-15, B3-16, B3-50 and B3-45 the work that was done that was related to these sample locations I included as part of the Site 3 area of liability.
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> Q. Or your damages, right, the damages

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with respect to the response costs?
A. That's correct.
Q. And so the area of liability are the areas that the Board recognized and then you used that, as I understand it, to develop your attribution?
A. To the extent -- to the extent any work was done related to those borings, I included it in the attribution.
Q. Okay. And why is that? What made you -- what about the Board's order made you do that?
A. The Board references that the -that IDOT should be responsible for the work that was implemented, that was caused by the actions and conditions that were determined to be their responsibility from the earlier hearing. So I just maintained that approach in the way I looked at the attribution.
Q. On Site 6, you identify the area of 01S/04S in your IDOT area of liability, why is that?
A. That was specifically referenced in the Board order.

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Q. And then you -- you include 05S to $08 S$ in your IDOT area of liability. Did the Board specifically find that IDOT buried ACM from 05S to 08S?
A. No.
Q. So just to keep for reference here.

Sorry. You guys know.
So 01s through 04 S goes to here
and 05 S through 08 S goes to here, correct?
A. That's correct.
Q. Briefly, and I'll go into this more in detail, why did you include 05S to 08S in your IDOT area of liability?

MS. O'LAUGHLIN: Objection.
Similarly -- but similarly for the reasons I object to relevance again. The liability regarding 05 S to 08 S was litigated at the first hearing. So any testimony about 05S to 08S is outside of the purpose of this hearing.

HEARING OFFICER HALLORAN: I'll
allow it. The Board can disregard if they see fit, but you may proceed. Thank you.

MS. BRICE: Thank you.

[^96]BY MS. BRICE:

## Q. Why did you include 05S through 08S

 generally?A. Well, first, $I$ wasn't sure that the conditions that had been evaluated by the Board in the earlier hearings were necessarily completely understood. I thought maybe there was a disconnect in an understanding of some of the earlier work, but more importantly I felt that there was new information that had been generated as a result of the actual removal that had taken place and as Mr. Peterson earlier testified, and I agree with him based on my own independent evaluation of the photos that he provided, I believe that what was seen during the removal action was a seam of asbestos that ran from basically the west end of Site 6 out to 04 s which it earlier had been identified as having been IDOT's responsibility, but that seam continued out past 08 S and I concurred with Mr. Peterson in looking at the information that is available that that seam of asbestos material appears to be consistent. There doesn't appear to have been multiple construction efforts when those materials
would have been placed and, therefore, it was my opinion that if IDOT was responsible for $01 S$ to $04 S$ it was the same of material that continued out to 08S and I felt that it should be included as part of my attribution.

MS. O'LAUGHLIN: I'd like to
complete my objection here. The things that Mr. Dorgan is talking about would have been more proper in a motion for reconsideration. He is basically talking about reopening things that were dealt with days in the first hearing. To allow him to again present testimony and regarding 05S to 8 A is something we have already done and to the extent that we can streamline this it would be helpful -- or it would be appropriate. This should have been done through a motion for reconsideration. It should not be the subject of this hearing.

HEARING OFFICER HALLORAN: Okay.
I'll address that in a minute. I think I already have three times. Ms. Brice.

MS. BRICE: Sure. I think
Mr. Dorgan has testified, and we'll get into this, in addition his argument is based upon causation

[^97]from the Board's order as a result of the Board's order says one party can recover costs as a result of the other party's violations and we've just heard that underneath 04 S is a consistent seem of asbestos, whether it's -- if 05S, 06S, 07S, 08S that's one issue, but there is other things that Mr. Dorgan will talk about as to his causation opinion with respect to 05 S to 08 S that I think are relevant here and we're not going to spend -you can see I'm running through this pretty fast. So we're not going to spend a lot of time on this. HEARING OFFICER HALLORAN: Yeah, IDOT's objection is noted and, again, if it is beyond the scope, I would ask the Board to disregard it, but I think, you know, it's their neighborhood to interpret their 2016 order and if it is beyond the scope, they will throw it out and not look at it, but so noted Ms. O'Laughlin and Ms. Brice said she'll try to streamline this matter along 05S and 08S. So overruled. You may proceed. BY MS. BRICE:
Q. So, in your opinion, what was found underneath 04S?

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A. Asbestos-containing material in the layer with fill that had been placed during the IDOT road project.
Q. And how far did that layer expand?
A. It extended at least as far as the western end of Site 6 and out past 08 .
Q. You also say that Mr. Peterson said he encountered soils with ACM within IDOT fill materials, can -- can you explain this and how this supports your opinion?
A. Well, the zone -- as we had determined in the earlier hearing there was a zone of fill materials that were placed during the road construction project that were subsequently having to be excavated and of the materials that were excavated that were found to be within the seam that was in that zone of material that had earlier been determined to have been placed by IDOT.
Q. Okay. Thank you. Just quickly can you turn to 21A-23, please, and Figure 3 that we have up here which is from your report 204-40.
A. Sorry. Which exhibit?
Q. 204-40 and 21A-23?

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(Document marked as Complainant
Exhibit No. 204-40 and 21A-23
for identification.)
BY THE WITNESS:
A. Yes. I don't think I have 21A.

BY MS. BRICE:
Q. It's in the very back. It just says 21, I think.
A. I have it.
Q. Do you see 21A-23?
A. Yes.
Q. What is 21A-23?
A. This is a profile of Detour Road A from the original IDOT construction project.
Q. And how is that depicted in Figure
$3 ?$
A. It's basically replicated with the profile that is shown at the bottom of the figure.
Q. What -- what is Figure 3 trying to show all of us?
A. It is showing the fill that was needed between the original grades that existed at the time of the project and where the finished elevation was intended to be.

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Q. Okay. Could you -- do you mind if I approach?

HEARING OFFICER HALLORAN: No, go
ahead.
MS. BRICE: Do you have a marker with you by any chance? Here we go. BY MS. BRICE:
Q. Here on Figure 3, can you tell me how far the construction on the Detour Road A goes?
A. It goes out nearly to Station 15.
Q. Station 15. What is a station?
A. A station is just a way of demarking different locations along the road so that you have -- they're usually on hundred foot increments and it just gives both the field and the design team an understanding of where you're at relative to the project.
Q. Okay. Can you please circle Station

15 for us?
A. (Witness complies.)
Q. How is Station 15 aligning with what is going on down here? Can you just sort of explain this figure to -- what is the best way for

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him, to explain it to you guys to explain it to the camera?

MS. TIPSORD: Explain it for the record.

HEARING OFFICER HALLORAN: Explain
it for the record.
BY MS. BRICE:
Q. Explain it for the record.
A. So basically what you have is the vertical -- the profile which is basically the cross section --
Q. On the bottom?
A. -- on the bottom lines up with the stationing on the plan view at the top.
Q. Of the detour road?
A. Of the detour road. So Station 15, which I circled, lines up with 15 and the vertical profile of the bottom right of the figure and then Station 14, which would be a hundred feet back to the west lines up with Station 14 on the profile.
Q. Okay. And what is -- and what is it showing here that is needed at Stations 14 and 15?
A. Fill.
Q. Fill material. And that's from the

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IDOT documents?
A. That's correct.
Q. Okay. And what boring locations
does that lineup with?
A. Station 14 is basically Sample 05S.

14 plus 50 would be 06 S and 15 would be 07 S .
Q. Okay. And did you -- did you
prepare this -- this figure?
A. Yes, I did.
Q. We're going to talk about one more figure and 21A-26 and I gave to Ellen earlier a cleaner version of that and I'm not sure if it's in your binders or not, but, Doug, do you have one with the red -- yes.
A. Yes. It doesn't have an exhibit number on it, though.
Q. It doesn't have an exhibit number in it, but what we did for the record is just try and clean up this very old document and I've shown it to Ellen and she agrees that it is accurate. We just put in the numbers and some of the words just to make it clear. Can you explain what 21A-26 is?
A. Yeah, this is a profile Greenwood Avenue roughly from Station 7 out to, I believe,

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Station 15.
MS. O'LAUGHLIN: I'm sorry. He is
looking at this document?
MS. BRICE: Yes.
MS. O'LAUGHLIN: 21A-26?
MS. BRICE: Sorry. I apologize. My
binder is falling apart. That's the problem when you don't have tables and chairs the right way. Go ahead. Sorry.

BY THE WITNESS:
A. I'd just like to clarify. BY MS. BRICE:
Q. Yes.
A. Are you asking me to look at 21A-26 or the blow up of it that was --
Q. The blow up of it. Sorry.
A. So then my earlier testimony is consistent.
Q. Okay. So is the blow up the same as the 21A-26 except it has some markings on it for clarification purposes?
A. Yes, and it's a cutout of 21A-26.
Q. And what is 21A-26 showing? I'm sorry you might have said this. I was having a

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binder drama.
A. Again, 21A-26, the top half of it, shows the profile for Greenwood Avenue and the soil conditions over the extent of the planned construction effort.
Q. Okay. And then Figure -- Figure 4 here, what is this document here? This is contained in your expert report, correct?
A. That's correct.
Q. What is this document?
A. That is a plan and profile showing the Greenwood Avenue project detail with a plan at the top and a profile at the bottom.
Q. Okay. And why are these going backwards five-fifty to nine when the other ones were going that way?
A. The stationing that was used for Greenwood Avenue was different than the station used for Detour Road A.
Q. Okay. And so what -- what are you showing -- what are you showing in this document?
A. Basically, again, we're showing the profile at the bottom that according to IDOT's plans there was a zone of material, soft peat in

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this particular case, that had to be removed before suitable fill could be brought in to support the construction for the new Greenwood road.
Q. Okay. And that is going -- how deep is that -- what elevation is that fill having to be removed at, let's say, 05S?
A. At 05.
Q. $\quad 05 \mathrm{~S}$ is right here.
A. $\quad 05 \mathrm{~S}$. So it's roughly 584, I
believe.
Q. And how much was -- fill was added
back in?
A. Over 5 feet.
Q. Okay. And then how about at 6S?
A. 6 S it was even deeper, about 5- --
583.9 roughly.
Q. Okay. And then they had to add again with more fill material, correct?
A. To nearly 589.
Q. Okay. And then how about at 07S?
A. $\quad 07 \mathrm{~S}$ I think was the one we just did.
Q. No, we did 06S. Sorry.
A. Oh, 07S, the sample location?

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Q. Correct.
A. Again, that would be from roughly
583.75 or so up to about 580- -- 588.5.
Q. Okay. So the 21A-26 drawing was
done before IDOT did any work, correct?
A. That's correct.
Q. So in this area here above the peat, it says black cindery fill, correct?
A. That's correct.
Q. Was there any black cindery fill found when the soil borings were done from 01S to 08S?
A. Not that I'm aware of.
Q. What was found instead?
A. Asbestos.
Q. And if you can take a look at your report, I think you have some numbers about where the asbestos was found at maybe 05S, 06S and 07S and if you can just draw on there where the asbestos was found within those zones, that would be appreciated.

HEARING OFFICER HALLORAN: The
record should reflect this is still all inside IDOT's objection beyond the scope. Ms. Brice?

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05S, 06S and 07S and are those all within the IDOT areas of fill based upon the IDOT engineering drawings from your perspective?
A. That is correct.
Q. And I don't know how to show that to -- sorry about that. Okay. One second. So we've been having this dispute about 05S, 06S, 07S and 08S.

Would your attribution opinions change if you had not included 05S, 06S, 07S and $08 S$ in your IDOT area of liability?
A. No.
Q. Why?
A. Because we already knew that there was asbestos at 01 S to 04 S and we needed a clean corridor for the entire length of the south side of Greenwood Avenue. So I would have taken the same approach. It's just further validated with the presence of those materials at those locations.
Q. Thank you.

HEARING OFFICER HALLORAN: We'll
take a short break. Maybe 10, 12 minutes, is that okay?

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| Page 257 |  |
| :---: | :---: |
|  | Station 16 and the actual 08S |
| location isn't actually shown on that profile, but |  |
| right on the edge of it. |  |
|  | HEARING OFFICER HALLORAN: Ms. |
| O'Laughlin, do you -- |  |
| MS. O'LAUGHLIN: I just don't know |  |
| which -- thank you. |  |
| BY MS. BRICE: |  |
| Q. Okay. All right. In your report, |  |
| you say that you quote -- and this is on 204-15. |  |
| (Document marked as Complainant |  |
| Exhibit No. 204-15 for |  |
| identification.) |  |
| BY MS. BRICE: |  |
| Q. You evaluated each task bucket to |  |
| determine whether the IDOT area of liability |  |
| caused JM to incur the implementation cost |  |
| associated with that task bucket, can you |  |
| elaborate, please? |  |
| A. So what I looked at was the work on |  |
| any given task bucket. The work that was related |  |
| to an area that the Board had determined IDOT was |  |
| responsible for if those conditions caused the |  |
| work to b | one, then I included it in the |

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attribution. If it was not related to those locations, then $I$ did not.
Q. Okay. If you can turn to 204-39, please.

MS. BRICE: And, Drew, if you can please pull that up on the screen.
(Document marked as Complainant Exhibit No. 204-39 for
identification.)
BY MS. BRICE:
Q. This is a figure from your report. And I have a couple of questions.

Do you recognize this figure?
A. I do.
Q. And did you create it?
A. Yes.
Q. Okay. And this figure, as well as the other figures that we have talked about, Figure 3, Figure 4 and Dorgan 1, are they all based upon the AutoCAD drawings given to you by Dr. Ebihara and the IDOT plans with respect to Figure 3 and Figure 4?
A. Yes.
Q. So here on Exhibit 204-39 there are

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orange dots in this figure.
What do those orange dots
denote?
A. Exhibit 204-39 is basically the same as dash 38. The exception being the location where visual ACM had been observed during the earlier investigation work, those locations had been highlighted with the orange circle around the sample location.
Q. What are you trying to show here with Dorgan Figure 2?
A. Just where on the site visual ACM was predominantly identified.
Q. And if there had been -- if IDOT hadn't buried ACM for which it was found liable, what do you believe would have happened based upon your expertise?

MS. O'LAUGHLIN: Objection.
Misstates the record and the findings of the Board.

BY MS. BRICE:
Q. If IDOT had not buried the ACM for which it was found liable.

MS. O'LAUGHLIN: You're on 0393. It

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was not found liable for --
MS. BRICE: No, I'm just talking
about -- let's just talk about the soil borings.
Okay. Take out 0393.
MS. O'LAUGHLIN: Okay.
BY MS. BRICE:
Q. If IDOT -- I'll take out 0393 for
the purposes of my question.
HEARING OFFICER HALLORAN:
Sustained. Thank you. You may proceed. BY MS. BRICE:
Q. If IDOT had not buried the ACM in the soil boring locations for which it was found liable by the Board, realizing we think that the area is bigger, but just based upon those, what do you think would have happened, what would U.S. EPA have required?
A. It would have likely been less than what was actually done. If there had been no ACM, there probably would have been no work done, but certainly you can see from this figure the predominant presence of surface ACM was in the IDOT area of liability.
Q. Surface or subsurface?

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A. Surface.
Q. Visual ACM observed, are you sure about that being surface or subsurface?
A. That would have been ACM that was observed at the -- at the -- I'm sorry. You're correct.
In this particular case, there
were actual fragments of asbestos-containing
material that were present in the locations that were being sampled. There were other instances where ACM was observed at the surface.
Q. Okay. So these are visual ACM
fragments found buried, correct?
A. That's correct.
Q. I'd like to turn to 204-36, which is right here. 204-36, do you have that?
(Document marked as Complainant
Exhibit No. 204-36 for
identification.)
BY THE WITNESS:
A. Yes, I do.

BY MS. BRICE:
Q. And what is this, Mr. Dorgan?
A. This is basically a summary table

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that presents my allocation of costs attributable to IDOT based upon task buckets in each of the sites.
Q. So you have -- you have -- so here -- down here all the task buckets in this row that says task bucket, and do these align with the task buckets that you were given the numbers for from Dr. Ebihara and Mr. Peterson?
A. Yes.
Q. Okay. And then you've got Site 3 and you've got numbers here and these are your attribution numbers, is that correct?
A. That's correct.
Q. Okay. So the allocation numbers are much bigger than these attribution numbers in some instances?
A. The total cost incurred are larger than these numbers in many instances, yes.
Q. Okay. And then you have Site 6 and what is this Sites 3 and 6 ?
A. That was work that was done where there was no clear demarcation between -- the work effort was done both in support of activities on both Site 3 and Site 6 and there was difficulty in

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teasing them apart in terms of which site that they should go into. So they were collectively referenced as Site 3 and Site 6 costs.
Q. Did Mr. Gobelman in his expert report go through the same exercise, obviously reaching different attribution numbers, but using the same overall costs and the costs for Site 3, Site 6 and Site 3/6 and the task buckets?
A. Yes, he did.
Q. We have one thing in common. All right.

## You discussed the Nicor gas

line. You attributed nothing to IDOT for the Nicor gas line, why is that?
A. Because the Nicor gas line was not located within an area -- IDOT area of liability and as a result I did not attribute any of the costs to IDOT.

MS. BRICE: Drew, if you wouldn't mind pulling that up to 204-38, please. It's Dorgan Figure 1. BY MS. BRICE:
Q. So this right here is the Nicor gas line, correct, it sort of cuts the Site 3 in half

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about midway down?
A. That's right.
Q. Okay. And I believe Mr. Gobelman agreed with you on that that nothing should be attributed to IDOT for the Nicor gas line?
A. That's correct.
Q. Okay. I'd like to go to the

Waukegan waterline and on 204-18 you discussed the
Waukegan waterline and I believe we identified
that earlier as that backwards L-shape feature on Dorgan Figure 1, is that correct?
(Document marked as Complainant
Exhibit No. 204-18 for
identification.)
BY THE WITNESS:
A. That's correct.

BY MS. BRICE:
Q. Okay. And before we go any further, you have these sort of three categories of service in here in your report, can you explain that for us?
A. Yeah. So the professional
engineering, that would have been the work that Dr. Ebihara and AECOM and its predecessors would

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have been performing and then the construction base bid was that work that was included in the original scope that went out for bid to the contractors and then the construction $T \& M$ is as Mr. Peterson described is the work that was done -- that needed to be done, but that happened after the work plan had gone in and approved. So that was done on a time and materials basis rather than being included in the original base bid. MS. O'LAUGHLIN: I'm sorry. Where are you?

MS. BRICE: I am here right 204-18. MS. O'LAUGHLIN: Thank you.

BY MS. BRICE:
Q. Did Mr. Gobelman dispute these numbers in any way?
A. Yes, he challenged my allocation of the amounts to IDOT.
Q. Right. But the base numbers, the original numbers?
A. No, not the total spend.
Q. Okay. What work was done on the

## Waukegan waterline?

MS. BRICE: And, Drew, if you can

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please pull up 204-39 for us.
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identification.)
BY THE WITNESS:
A. A clean corridor was created for the Waukegan waterline.

BY MS. BRICE:
Q. Okay. So this -- this entire line here in a clean corridor, correct?
A. That's correct.
Q. Okay. And there's this B3-40 in there, do you see that?
A. Yes, I do.
Q. And is that within -- denoting it is within the Waukegan waterline area?
A. No.
Q. Is it right outside of it?
A. Yes.
Q. Okay. Well, there is $\mathrm{S}-\mathrm{-}$ S3-40B
if you see here -- actually, I think it's on the line. Take a closer look at it or maybe, Drew, you can blow it up.

Do you see the mark there, the

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boring location?
A. Yes.
Q. Which is B3-40, is that this one
here on the line?
A. I believe so.
Q. So is it within 0393 or on the line?
A. Yes, it's on the line at least.
Q. Okay. We've discussed earlier that
the location of the Waukegan waterline was not known at the first hearing and that they thought it was located further south.

I believe you say in your report
that they determined it was in a different location in August and I heard Mr. Peterson say June, do you know which one it is?
A. I'm not certain.
Q. Okay. Do you know where you would have gotten your information from?
A. From Mr. Peterson.
Q. Okay. So we can double check that with Mr. Peterson.

How do you know that the
Waukegan waterline now is in the right spot?
A. Based upon the survey that was

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provided.
Q. Okay. And so the centerline -- I just want to explain like -- so this is the centerline of the Waukegan waterline, right?
A. That would be the waterline itself.
Q. Okay. That's what I'm trying to understand.
A. It serves as the centerline of the clean corridor.
Q. So can you explain that in words for everybody?
A. So basically on either side of the waterline soils were excavated down to at least two feet below the depth, the invert depth, of the waterline.
Q. So that's this area and this area up
here?
A. That's correct. And that was backfilled and I think Mr. Peterson explained how a geocomposite -- or geotextile was laid in, backfilled with sand and then topsoil was placed in order to establish a vegetative cover.
Q. But the actual line itself is actually up here above the bottom of 0393, is that

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right?
A. That's correct.
Q. And so this is just the corridor, the clean corridor is what we're seeing when we're looking at the $L$, is that right?
A. Except the waterline is represented as being right in the center of the clean corridor.
Q. Okay. How much -- so is -- is the waterline entirely within parcel 0393?
A. Yes.
Q. If you can stay on 204-18 for me. How much money was incurred for the Waukegan waterline work?
A. $\$ 61,037$ on Site 3 and $\$ 86,674$ on Site 6.
Q. Okay. So for Site 3, how much did you attribute to IDOT?
A. $\quad 100$ percent.
Q. I'm sorry?
A. $\quad 100$ percent.
Q. And why is that?
A. Because all of the waterline was
located within Parcel 0393.

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Q. Okay. And how about Site 6?
A. I attributed none of that cost to

IDOT.
Q. And why is that?
A. Because it was outside of the IDOT
area of liability.
Q. Okay. So I'm just trying to hurry things along.

As I understand it, the Waukegan
waterline went north out of Site 3, across
Greenwood and then there was work done on it on the north side of 6 , correct?
A. That's correct.
Q. And you're not including any of those costs in the IDOT attribution, right?
A. I am not.
Q. Okay. So let's go back here to 204-36. So here we go. This is the summary. So here is your $\$ 61,037$ which is the hundred percent and here is your zero for Site 6.

And were there any Sites 3
and 6 costs incurred onsite -- for the waterline?
A. No.
Q. Okay. So your total here for the

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waterline is $\$ 61,037$, correct?
A. That's correct.
Q. Let's turn to the AT\&T lines and
that's on Exhibit 204-20.
(Document marked as Complainant
Exhibit No. 204-20 for

## identification.)

BY MS. BRICE:
Q. Again, you have some categories of service. Can you explain these.
A. Basically, the same first three that I described for the Waukegan waterline professional engineering -- actually, in this case, they had -- there is work not only for the engineering, but there was some projected costs for completing the project on the professional side that AECOM was intending to do and then there is the construction $T \& M$, which I described previously and then there was construction management services provided by Dave Peterson's company related to the AT\&T line abandonment and then ultimately payments that were needed to be made to AT\&T regarding their work in abandoning the lines.

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Q. Okay. And what did AT\&T do as far as you know with respect to abandoning the lines?
A. They basically rerouted the service and put it above grade on poles and took it around the site.
Q. And JM -- so that was -- they had to reroute the stuff that was underground, correct?
A. Yes.
Q. And JM then paid them back for doing that?
A. That's correct.
Q. And that's what's reflected here in utility payment to AT\&T?
A. That's correct.
Q. What work was done on the AT\&T lines on Site 3?
A. They were removed.
Q. And how --

MS. BRICE: Drew, if you can pull up, again, Dorgan Figure 1, please. 204-38. BY MS. BRICE:
Q. And how many lines -- AT\&T lines were on Site 3?
A. There were 3 in total.

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believe you discuss how many AT\&T lines were on Site 6?
(Document marked as Complainant
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identification.)
BY MS. BRICE:
Q. Can you please discuss that for the record?
A. Yeah, there were -- there was one AT\&T phone line, one fiberoptic line that was on the north side of Site 6, and there was one telephone line that was on the south side of Site 6 running through the Site 6 area of liability.
Q. Okay. And where does that run through the Site 6 area of liability?
A. Right on -- you can see where it
comes --
Q. Is it this one?
A. It's a continuation of --
Q. Is it purple?
A. No, it's one of the telephone lines that comes up and then you can see it running right along on Site 6.
Q. So -- right. It's this one right

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here --
A. Yes.
Q. -- correct? And then it comes
through here and then runs up through here --
A. Right.
Q. -- is that right?
A. That's correct.
Q. And describing it for the record,
what -- what -- can you describe where it's
running through like in terms of boring locations?
It's coming in at --
A. Just past $03 S$ and then runs past 08S.
Q. Okay. How did you determine IDOT's attribution for the AT\&T lines on Site 6?
A. There were a total of three lines for AT\&T on Site 6. Two of them were on the north side of Site 6, which I did not consider to be within the IDOT area of liability. One was on the south side. So I took a third of the costs for the AT\&T line abandonment and attributed them to IDOT.
Q. And what was your total for IDOT Site 6 AT\&T line attribution?

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Q. And did Mr. Gobelman agree with that number?
A. Yes.
Q. And is that -- and what exhibit is
that from, is that from Mr. Peterson's exhibits to your report?
A. It's from my tabulation of the documentation Mr. Peterson gave me.
Q. Okay. Gotcha. I'm going to get into this specifically in a moment and walk everybody through it because it's complicated, but can you just generally explain how you attributed these combined Sites 3 and 6 costs?
A. Yeah. So basically what I did is I looked at my attributions to IDOT for Site 3 and Site 6.
Q. Can you give me numbers, too, while you're doing that.
A. $\$ 71,710$.
Q. Yeah?
A. And the $\$ 88,858$.
Q. Okay.
A. I then divided that by the total
costs that were incurred.

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think it's going to get confusing. Can we try to do it this way? Can you turn to Exhibit F?
(Document marked as Complainant
Exhibit No. F for
identification.)
BY MS. BRICE:
Q. I'm going to go to 204-108.

MS. BRICE: Drew, if you can pull
that up, that would be helpful.
HEARING OFFICER HALLORAN: What
exhibit is this?
MS. BRICE: 204-108.
HEARING OFFICER HALLORAN: Thank
you.
(Document marked as Complainant Exhibit No. 204-108 for
identification.)
BY MS. BRICE:
Q. Are you there, Mr. Dorgan?
A. Yes, I am.
Q. Okay. So you've got here total cost right in here under AT\&T Site $3 \mathbf{\$ 1 0 8 , 6 5 1 , ~ d o ~ y o u ~}$ see that?
A. I do.

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Q. And how did you come up with that
number?
A. That's just a sum of the individual amounts that are shown above it in the column for Site 3.
Q. Okay. Then you've got the $\$ 284,266$, how did you come up with that number?
A. That's a sum of the total amounts that are shown in the column for Site 6 above it.
Q. Okay. And then you -- if I understand this correctly, right underneath that there is a section that says AT\&T total, AT\&T Sites 3 and 6 costs and is this -- is this $\$ 392,918$, is that the combined number of those two?
A. Yes, that would be the sum of the $\$ 108,651$ and the $\$ 284,266$.
Q. Okay. And then you've got the $\$ 71,710$ and what is that?
A. That's the amount that I attributed to IDOT for Site 3.
Q. Then you have the $\$ 88,858$ right next to it, what is that?
A. That's the amount attributed to IDOT

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for Site 6.
Q. Okay. Then you add those together, I take it, and that's where you got $\$ 165,068$ down here below?
A. That's correct.
Q. Okay. And then your 40.9 percent is dividing the $\$ 392,918$ and the $\$ 165,068$, correct?
A. That's correct.
Q. Okay. And then you have this IDOT -- AT\&T IDOT total of 201 -- sorry. Let's just skip that.

You have this under here, under total IDOT attribution, Sites 3 and 6 AT\&T right underneath the $\$ 89-$-- the $\$ 98,898$ you have $\$ 40,449$, how did you come up with that?
A. That would be the $\$ 98,898$ multiplied by the 40.9 -- or multiplied by . 409 in this case.
Q. Okay. So down here at the bottom you have AT\&T IDOT total $\$ 201,017$, do you see that?
A. I do.
Q. And what is that?
A. That's the sum of the total IDOT attribution row. So that would be the sum of the

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three figures, the sum for Site 3 of $\$ 71,710$; the sum for the Site 6 attribution of $\$ 88,858$; and then the sum for the Sites 3 and 6 combined attribution of $\$ 40,449$--
Q. Okay.
A. -- those add up to $\$ 201,017$.
Q. And all of those numbers, as I see them, are depicted here on 204-36 in the AT\&T row, is that correct?
A. That's correct.
Q. Now, did Mr. Gobelman use this same methodology for determining his site for three plus six costs obviously using different attribution numbers?
A. Yes, he did.
Q. Now, I'd like to talk about utility ACM soils task bucket. Can you tell me what that is?
A. Yeah. So this was the soils that were excavated where the utilities had been. The utilities were abandoned. That was part of the work to relocate them so service wasn't interrupted and then those soils were actually excavated and removed both on the north and south

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sides of Site 6.
Q. Okay.

MS. BRICE: Drew, if you can please pull up Dorgan Figure 1 again.

BY MS. BRICE:
Q. Okay. Can you describe for me where this utility ACM soils task bucket is located on Dorgan Figure 1?
A. Let me go back to that.
Q. This could be on 204-21.
A. So on this figure it's shown as being the soils that were excavated both on the north side which is shown with the crosshatching and then on the south side of Site 6 with the crosshatching.
Q. So what -- what sample locations are we talking about here?
A. We're talking about from 01S out past 08S.
Q. Okay. What about on the north side?
A. From 01N out past 08N.
Q. And did you attribute any of the soils -- this work in this task bucket on the north side to IDOT?

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A. No.
Q. And on 204-21, you say the
enforcement action memorandum required soils to be excavated from Sites 3 and 6, can you elaborate?
A. Yeah. So, basically, there was

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asbestos found on both the north side and south
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side of the right of way. Even though the utility
lines were being removed, it was still within a
public right of way. So they wanted the asbestos
materials to be removed so they wouldn't present a
future hazard to those that might come in contact
with it or as was discussed earlier the potential
of it being brought to the surface through some
other situation.
Q. And is this task bucket work separate from the North Shore gas line work on Site 6 that runs through some of this same area? Were the costs segregated out separately?
A. Yes.
Q. So there is no double counting with respect to that?
A. No.
Q. On 204-22, you say there were eight utility lines involved in this work, which ones

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are those?
(Document marked as Complainant
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identification.)
BY THE WITNESS:
A. The City of Waukegan waterline, the

North Shore gas line, AT\&T phone lines, the AT\&T
fiberoptic line and then the ComEd fiberoptic line and ComEd electric line.

BY MS. BRICE:
Q. And how many of these were on the north side of six?
A. Four of them.
Q. How many were on the south side of

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six?
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A. Four.
Q. And how many of the four on the south side of 6 ran through the IDOT area of liability?
A. All of them.
Q. And did they all go through 01S
through 04S?
A. Yes. A --
Q. At least some of them did?

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50/50.
Q. And if that number is reflected over here as well again --
A. Yes.
Q. -- ACM utility soils zero for Site 3 because this is all really within Site 6, correct?
A. That's right.
Q. So you've got $\$ 77,659$ for Site 6 and that's all on the south side, correct?
A. That's correct.
Q. Nothing -- there was nothing in that category that Mr . Peterson didn't have anything for the Site 3 plus 6, correct?
A. Correct. MS. VAN WIE: I have a question,

Susan.
MS. BRICE: Yes.
MS. VAN WIE: Does the number
reflect the work on all of Site 6 on the south
side from 01S to 08S or are we just talking specifically about the area 01S to 04S?

THE WITNESS: Just 08S.
BY MS. BRICE:
Q. To 08S. However, would your opinion

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change if it was only 01S to 04S?
A. I believe it would still have had to be done because of the asbestos present in 01s to 04S.

MS. VAN WIE: Thank you.
BY MS. BRICE:
Q. Let's talk about the northeast excavation.

MS. BRICE: How much time do I have?
MS. TIPSORD: It's about 4:30.
MS. BRICE: Okay. Great.
BY MS. BRICE:
Q. On 204-22, you talk about the northeast excavation. We talked about that a lot. Those are the three -- these three grids basically, correct, right here on the northeastern portion of Site 3?
A. That's correct.
Q. And what work did U.S. EPA require to be done here?
A. They had to remove soils through the three grids down to a predetermined depth.
Q. And where does the ComEd fiberoptic line run through the northeast excavation?

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percent, which was $\$ 49,934$, correct?
A. That's correct.
Q. And that's reflected there on the tabulation 204-36, correct?
A. Yes.
Q. I will show you.
A. I see it, yes.
Q. You see it. Okay. And obviously northeast excavation is not on Site 6 and there were no Site 3 -- so there's no Site 3 plus 6 costs, so it's just the $\$ 49,934$ ?
A. That's correct.
Q. Okay. Now, we're going to talk about North Shore gas. This is the line -- can you describe for the record -- it's sort of -I'll try to describe it I think just to hurry things along. It cuts diagonally a bit through the northern portion of Site 3 and then it enters into 0393 and then I think Mr. Peterson testified right about $03 S$-- 04S-ish they capped it, correct, and then it extends east, correct, along the south side of Site 6 ?
A. That's generally correct.
Q. Okay. Fix me, please.

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A. They capped it where it entered Site 6, but basically put a flange on it and then now that it was no longer in use east of where it entered Site 6 if they excavated to remove the ACM soils that we just talked about, if they had to excavate down to a depth that encountered the gas line, they just took the gas line out.

Once they no longer had to dig
that deep and the gas line was lower than the bottom of what they had to excavate to, they left the gas line in, but, at that point, it was abandoned and no longer in service. It could be left in place.
Q. Okay. Thank you. So here on 204-23 you have four services mentioned.
(Document marked as Complainant Exhibit No. 204-23 for identification.)

BY MS. BRICE:
Q. We have kind of gone through the --
actually, on -- North Shore gas is kind of important. There is construction T\&M for North Shore gas Site 3. It's in T\&M. It's not in necessarily like the base bid and I think

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Mr. Peterson might have testified about this, but can you explain your understanding of why that is?
A. Yeah, I believe that was primarily related to in order to deenergize the gas line so they could cut it and cap it where it enters -where it goes from Site 3 to Site 6 they had to shut the gas supply off. So they had to access that valve that Mr. Peterson talked about. So that they could actually turn the valve off, turn the gas off, do the disconnection, put the new flange on and then they ultimately reenergized just that portion that traverses across Site 3.
Q. And let's just take -- you have in here utility payments to North Shore gas on 204-23, what is that?
A. That was work -- that was for costs that they paid to North Shore gas for the work that they did in support of this abandonment effort.
Q. Okay. So as we said on Site 3, they capped it and -- they deenergized the line and they capped it, correct?
A. Correct.
Q. And then what else did they do?

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A. They created a clean corridor.
Q. They created a clean corridor. And how did you determine IDOT's Site 3 North Shore gas attribution? And if you can please use boring numbers and your Dorgan Figure 204-38 to describe it for the record, it would be much appreciated?
A. Well, the clean -- the gas line and the clean corridor that was needed for it ran up through the boring locations B3-50 and B3-15 which were both identified as borings in the Board's order as IDOT responsibility and the clean corridor was required to be constructed for the remainder of the line regardless whether asbestos was found in it. So I attributed a hundred percent of the North Shore gas Site 3 clean corridor to IDOT.
Q. And just for the record, were there any borings along the North Shore gas line on Site 3 that were not identified by the Board to be contaminated?
A. No.
Q. So what was your total North Shore
gas Site 3 attribution?
A. $\quad \$ 332,524$.

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Q. And that's here under the row for North Shore gas on 204-36.

Okay. Let's talk about Site 6. Can you show us or explain for the record, more likely, and we just sort of talked about it, but I'd like you to explain it please where the North Shore gas is on the south side of Site 6?
A. So when the EAM was written, there was still the intention at that time of actually putting the clean corridor in for the North Shore gas line. Later on, it was determined that they were going to end up capping that, but they still were required to have the clean corridor across all of the south side of Site 6 as far as where the North Shore gas line ran to and that was all part of the clean corridor construction.
Q. Okay. And you said the capping -did the capping occur at what boring location?
A. $\quad 04 \mathrm{~S}$.
Q. And is that an area that the Board identified as an area of liability?
A. Yes.
Q. Did you attribute any costs associated with the North Shore gas line on the

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north side of Site 6 to IDOT?
A. No.
Q. Why not?
A. Because it was outside of the IDOT area of liability.
Q. And at time -- you talk about the enforcement action memorandum. At the time of the enforcement action memorandum, was there any asbestos containing material east of $08 S$ that had been detected?
A. No.
Q. So what -- what is that telling you, what was driving the need to do the clean corridor?
A. The asbestos that had been identified from 01S to 08S was driving the clean corridor construction, the remainder of the south side of Site 6.
Q. And, again, if $05 S$ to $08 S$ weren't part of your opinion, would you still -- let me back up.

Would your opinion be the same if the IDOT area of liability in your report was just 01s to 04S?

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A. Yes.
Q. And explain, again, please why?
A. Because the presence and the
potential presence of asbestos along the clean corridor would have driven the need for the clean corridor itself.
Q. And Mr. Peterson testified about the photographs taken along the south side of 6 . Do you -- do you have any
opinions about those photographs --
A. Yes.
Q. -- other than what you've already stated?
A. Yes, I've already stated that I believe it's consistent with his description. I can see a seam of material that is rather uniform in depth and inconsistency across that entire site.
Q. Okay. So how did you attribute the Site 6 North Shore gas cost to IDOT?
A. I believe I took the total amount of work that was done for North Shore gas on Site 6 and I calculated just the number of feet that were related to work that was done within the IDOT area

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of liability and made that attribution.
Q. And how many feet -- how many feet
was that?
A. It was 560 feet.
Q. Okay. But you have something in here that talks about 205 lineal feet, is that on the south side of $6 ?$
A. That's on the total.
Q. Are you sure about that?
A. I believe so.
Q. Okay. So 205 lineal feet and then 560 feet is what you believe happened -- sorry. Can you explain that again? I got lost.
A. Yes, 560 feet was the distance that was within the IDOT area of liability.
Q. Okay. And where is that? What does the 560 feet comprise of?
A. That would be from 04S to 08S.
Q. Okay. So how did you get your 27.9 percent?
A. Actually, excuse me. That would have been the linear feet from 04S to the eastern extent of the North Shore gas line run on the

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south side of Site 6. It then goes underneath
Greenwood and continues running east on the north side. So that 560 would have been that length from where it enters Site 6 and runs to, I believe, it's somewhere around location 30.
Q. Okay. And the 2005 is the amount of what?
A. The total linear feet for the North Shore gas line work that was done on Site 6 .
Q. And that was North Shore gas line work of what was removed, correct?
A. That's right.
Q. Okay. And then you take and you got the 27.9 percent how?
A. Divided the 560 linear feet by the 2005 linear feet.
Q. To give you 27.9 percent?
A. That's correct.
Q. And how do you get to your attribution to IDOT?
A. Basically, take the total amount for Site 6 and multiply it by the 27.9 percent.
Q. Okay. So the total amount for Site 6 for the North Shore gas costs which was given to

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you by compiling what you got from Dr. Ebihara and Mr. Peterson, correct?
A. That's right.
Q. And then you multiplied that by the 27.9 percent and came up with $\$ 65,597 ?$
A. That's correct.
Q. Okay. And, again, that's on the figure over here 204-36?
A. Yes.
Q. Okay. So there is a Sites 3 and 6 cost category for the North Shore gas line on 204-35 -- it must actually be 25, I think, not 35. (Document marked as Complainant Exhibit No. 204-25 for identification.)

BY MS. BRICE:
Q. Can you explain to me what those costs were?
A. Yeah, those were the costs that were implemented that Campanella incurred on a T\&M basis and some of Dave Peterson's oversight costs related to the North Shore gas line work that was being done in support of the clean corridor on both Site 3 and Site 6.

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Q. Okay. And who made the
determination that they applied to both Site 3 and Site 6?
A. Mr. Peterson.
Q. Okay. Let's go back to Exhibit F.

We have a number of these complicated calculations and if you can turn to 204-108 -- I mean, 109. Sorry.
(Document marked as Complainant
Exhibit No. 204-109 for
identification.)
BY MS. BRICE:
Q. I'm going to be focusing here on similarly these similar columns and then down here on the bottom under North Shore gas there's a calculation that is shown, correct --
A. That's right.
Q. -- underneath? So can you explain these numbers, the $\$ 332,524$, what number is that?
A. That's the IDOT attribution for Site 3.

MS. BRICE: Drew, can you pull that
up, please? Thanks.

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BY MS. BRICE:
Q. And what is the $\$ 234,861 ?$
A. That's the total cost for Site 6

North Shore gas line work.
Q. Okay. And then 332 -- so that's 524
because that's the same number in the attribution because you attributed 100 percent for Site 3, correct?
A. That's correct.
Q. And then under here for Site 6 you have $\$ 65,597$ and how did you come up with -- what number is that?
A. That is the percentage that $I$ attributed -- that's the allocation to IDOT based upon that 27.9 percent calculation we discussed earlier. So that would be the sum of the IDOT attributions from the column above where that number appears.
Q. Understood. So it's over here a little bit to the right. So if you go down under North Shore gas, the Sites 3 and 6 column right beneath that -- the $\$ 40,826$ you've got $\$ 567,385$, is that just adding together the numbers, the \$332,000 and the \$234,000?

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A. That's correct.
Q. Okay. And then the 398 number, is
that adding -- what is that adding exactly?
A. That's adding the $\$ 332,524$ plus the $\$ 65,597$.
Q. Okay. How did you get to this 70.2
percent?
A. Basically, the 7 -- \$398,121
represents 70.2 percent of the total cost.
Q. And how did you get to this attribution of costs for the Site 3 and Site 6?
A. I multiplied the total cost by
0.702 .
Q. So the total -- so the total cost is \$58,157?
A. That's correct.
Q. And then you multiplied that by the 70.2 percent by that $\$ 58,157$ to get to $\$ 40,826$ ?
A. That's correct.
Q. Did Mr. Gobelman approach this the same way?
A. He did.

HEARING OFFICER HALLORAN: You have
about ten minutes, Ms. Brice, please.

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BY MS. BRICE:
Q. Okay. We're going to move on to dewatering, which start on 204-25. Can you tell us what dewatering is?
A. Dewatering is basically you either drive some well points or you put a pump in the bottom of a hole and you begin pumping the water out to press the groundwater table so that any work you need to do at an elevation below the groundwater table can be done in dry conditions rather than underwater.
Q. And why is it necessary? Excuse me.
A. Because you can't actually work in the subgrade if you're trying to work in the water basically.
Q. Okay. In general, what was your approach to determining IDOT's dewatering attribution?
A. I basically looked at the elements of the work that were needed to have dewatering done in order to implement them.
Q. Okay. So let's -- let's -- let's go here to 204-26. What dewatering work was done on Site 3?

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talking about the Campanella base bid dewatering work and that number is the -- is what? The total cost, where does that come from?
A. The total cost for the dewatering work for Site 3 was $\$ 259,000$ and that comes from Mr. Peterson's tabulations.
Q. Right. But I'm just talking about the first paragraph on this one.
A. Oh, the construction?
Q. Yeah, I'm talking about -- I'm going to go paragraph by paragraph.

## So you have the Campanella base

bid?
A. $\quad \mathrm{Mm}-\mathrm{hmm}$.
Q. So Mr. Peterson gave you that
number, correct?
A. That's correct.
Q. Okay. So can you explain how you came to this 75 percent attribution and this total of $\$ 105,600$ ?
A. Yes. So there were basically of the work elements that required dewatering, three of them I had previously determined to be IDOT's responsibility, that was the North Shore gas line,

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the City of Waukegan waterline and the northeast excavation.

The last one, which was the
Nicor line, I had not included. So basically I took three quarters of the work effort for the dewatering under the Campanella base bid and attributed it to IDOT.
Q. Okay. And this is all for Site 3,
correct?
A. That's for Site 3.
Q. And you took those and you took 100 percent of those because you had attributed 100 percent to each one of those three task buckets, correct?
A. That's correct.
Q. Okay. Now, if you move down to Paragraph 2, you've got Campanella T\&M dewatering services.

## Can you explain this paragraph a

bit? You also have the 75 percent. Can you explain what you did here?
A. Yeah, my understanding is that this was kind of a cost-saving measure. They had to move water from the south side of Greenwood Avenue

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to the north side to tie into the North Shore Sanitary District sewer line. So they had to put basically a line in underneath Greenwood Avenue in order to accommodate management of the water being generated from the dewatering operation.
Q. Okay. So how did you determine that the percentage, the 75 percent should apply here, and that IDOT's attribution should be $\$ 18,244$ ?
A. I used the same methodology. I applied the 75 percent in that three of the four work elements were attributed to IDOT.
Q. And that's because those three of the four work elements were driving the need for that work that you just described?
A. That's correct.
Q. Okay. Under the next paragraph, Paragraph 3, there is 100 percent attribution to IDOT, why -- why is that?
A. This was work -- this was the work that we described previously. Mr. Peterson described as being related to the -- being able to install the valve, which was at the western boundary of the North Shore gas line so that they could cut it and cap it at that Site $3 /$ Site 6

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boundary.
Q. So, once again, we're -- we're still on Site 3, correct?
A. That's correct.
Q. Okay. So he is doing work here that
he says is only related to the North Shore gas line?
A. That's correct.
Q. And because you attributed 100
percent to the North Shore gas line, you
attributed 100 percent for this work that was only
North Shore gas line related on Site 3?
A. That's correct.
Q. Okay. Fourth paragraph, these are the DMP-incurred expenses associated with discharge of water generated from dewatering activities to the North Shore Water Reclamation District.

Can you explain what you did
here?
A. So these were fees, I mentioned earlier that they had tied into the sewer system for North Shore Sanitary District. They were required to pay a fee to the district for taking

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and treating that water and that's what these costs were related to.
Q. Okay. And how did you come up with the allocation?
A. It's rather complicated. It's all explained in Footnote 19.
Q. Okay.
A. It has to do with the actual days of dewatering that were being undertaken for the different areas and I basically -- Mr. Peterson broke it down for me in terms of what days dewatering was being done where and when you total it all up it comes out to $\$ 19,429$.
Q. Okay. So you went to -- you got into the details here to make sure you got it right?
A. $\quad \mathrm{Mm}-\mathrm{hmm}$. Yes.
Q. Okay.

MS. BRICE: Mr. Halloran, is this a good place to stop?

HEARING OFFICER HALLORAN: Yeah, because we're going on to Site 6 now?

MS. BRICE: Yes.
HEARING OFFICER HALLORAN: All

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right. Let's stop. Hopefully tomorrow -- it's about 5:00. Hopefully tomorrow we can start at 9:00 a.m. You guys have been great today. Thank you so much and stay well. MS. BRICE: Thank you. MS. GALE: Thank you. MR. GRANT: Thanks. MS. O'LAUGHLIN: Thanks.

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BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

I, Steven Brickey, Certified Shorthand Reporter, do hereby certify that I reported in shorthand the proceedings had at the trial aforesaid, and that the foregoing is a true, complete and correct transcript of the proceedings of said trial as appears from my stenographic notes so taken and transcribed under my personal direction.

Witness my official signature in and for Cook County, Illinois, on this $\qquad$ day of
$\qquad$

STEVEN BRICKEY, CSR, RMR, CRR 8 West Monroe Street Suite 2007 Chicago, Illinois 60603
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CSR No. 084-004675

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