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ILLINOIS POLLUTION (OCTOBER 30		
JOHNS MANVILLE,)	
Complainant,)	
vs) No. PCB 14-3) (Citizens) Enforcement -	
ILLINOIS DEPARTMENT OF TRANSPORTATION,) Land)))	
Respondent.)	

REPORT OF THE PROCEEDINGS held in the above entitled cause before Hearing Officer Bradley Halloran, called by the Illinois Pollution Control Board, taken by Steven Brickey, CSR, RMR, CRR, for the State of Illinois, 100 West Randolph Street, Chicago, Illinois, on the 26th day of October 2020, commencing at the hour of 9:20 a.m.

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October 26, 2020

Page 2 1 A P P E A R A N C E S: 2 NIJMAN & FRANZETTI, LLP BY: MS. KRISTEN GALE MS. SUSAN BRICE 3 10 South LaSalle Street 4 Suite 3600 Chicago, Illinois 60603 5 (312) 262-5524, kg@nijmanfranzetti.com sb@nijmanfranzetti.com 6 7 Appeared on behalf of Midwest Generation; 8 OFFICE OF THE ATTORNEY GENERAL 9 MR. CHRISTOPHER GRANT BY: MS. ELLEN O'LAUGHLIN 10 69 West Washington Street 18th Floor 11 Chicago, Illinois 60602 (312) 814-2087 12 cgrant@atg.state.il.us eolaughlin@atg.state.il.us 13 Appeared on behalf of Illinois 14 Department of Transportation. 15 16 ALSO PRESENT: MS. MARIE TIPSORD MS. JENNIFER VAN WIE 17 18 19 20 **REPORTED BY:** 21 Steven J. Brickey, CSR, RMR, CRR CSR License No. 084-004675 22 23 24

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Page 7 1 HEARING OFFICER HALLORAN: Hi. Good 2 morning. My name is Bradley Halloran. I'm the 3 Hearing Officer with the Illinois Pollution 4 Control Board. I'm also assigned to this matter. It's PCB 14-3. It's entitled Johns Manville, 5 6 complainant, versus the Illinois Department of 7 Transportation, respondent. Today is October 26th, 2020. It's approximately 9:20. 8 This hearing was properly noticed and will be 9 conducted pursuant to Sections 101 and 103 of the 10 11 Board's procedural rules. Due to the COVID-19 12 pandemic, we also have available a Webex platform 13 that will allow the public participants and 14 witnesses to participate without being physically 15 present. Information for accessibility can be 16 found in my September 22nd, 2020, notice of 17 hearing order and also if you have connection 18 issues I have my webmaster and general counsel to 19 the right of me. You can call her, Marie Tipsord, 20 at (312) 814-4925 and she will presumably help you 21 out. 22 I'm here to rule on any procedural and evidentiary matters. After the hearing, I'll 23 24 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 2 3 believe we have Chair Currie on Webex and we have 4 Member Van Wie here physically present to my right 5 and we have various staff attorneys on -- on Webex 6 as well and technical person Essence Brown, I 7 believe. 8 And, again, we're here because on December 15th, 2016, in their interim order the 9 Board found that IDOT caused and allowed open 10 11 dumping of asbestos-containing material. 12 Specifically, the Board found that IDOT caused 13 open dumping of ACM waste along the south side of Greenwood Avenue within Site 6 and adjacent areas 14 15 along the north edge of Site 3. The Board further found that IDOT 16 17 allowed open dumping of ACM waste on a portion of Site 3 within Parcel 0393. It's my understanding 18 19 that that there is a little disagreement as far as 20 what portion of Parcel 0393 is. The Board, after finding the violations, made a determination as to 21 22 Section 33(c) factors and availability of cost recovery. The Board found further hearing is 23 24 necessary. They directed me to conduct a hearing

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1	for evidence on the following issues.		
2	The cleanup work performed by JM on the portions		
3	of Site 3 and Site 6 where the Board found IDOT		
4	responsible for ACM waste present in the soil.		
5	Number two, the amount and reasonableness of JM's		
б	cost for this work and it's my understanding that		
7	the parties have stipulated this morning, two.		
8	It's number three, the share of JM's cost		
9	attributable to IDOT.		
10	After the hearing is completed, the		
11	Board will enter a final order awarding cleanup		
12	costs as the Board deems appropriate on the facts		
13	and circumstances and I do want to remind the		
14	parties that we had a sequester order entered. So		
15	any lay or fact persons must leave the hearing		
16	room and Webex until until they are called. In		
17	any event, JM, would you like to introduce		
18	yourself and we'll move on to IDOT.		
19	MS. BRICE: Sure. Thank you very		
20	much. My name is Susan Brice. Welcome to the		
21	COVID hearing that we finally got scheduled here		
22	after much, much delay. I appreciate it, Mr.		
23	Halloran, Board members, Board Member Van Wie.		
24	Thank you for having us and		

Page 10 1 WEBEX: This meeting is being 2 recorded. 3 MS. TIPSORD: Sorry. 4 MS. BRICE: -- making this a 5 possibility. It's been a long time coming. Ι 6 also have with me my colleague Kristen Gale who is 7 also representing Johns Manville or sometimes we call them JM for short because it's just easier 8 9 and makes things faster and then, IDOT, do you want to introduce yourselves? 10 11 MS. O'LAUGHLIN: Sure. There we go. 12 I'll introduce myself from here. I'm Ellen 13 O'Laughlin. I'm an Assistant Attorney General and we are here on behalf of the Illinois Department 14 15 of Transportation and I will let my colleague 16 introduce himself. 17 MR. GRANT: I'm Christopher Grant 18 with the Attorney General's Office on behalf of 19 IDOT. 20 MS. O'LAUGHLIN: Again, I will echo we appreciate everybody being here and it has been 21 a long road getting here. So good morning, 22 23 everyone. 24 HEARING OFFICER HALLORAN: Thank you

	Page 11
1	and we've made it thus far, I think we can make it
2	a few more days. So thank you, all, for your
3	patience. Ms. Brice, opening.
4	MS. BRICE: Yes, sure. And I will
5	be brief. You said a lot of what I'm going to
б	say. So very brief here.
7	So National Marine Service
8	versus Illinois EPA the Illinois Supreme Court
9	held that a primary "The primary purpose of
10	the act is to ensure that adverse effect upon
11	the environment are fully considered and borne
12	by those who cause them."
13	This case is about fulfilling
14	that purpose and making the polluter pay. In this
15	case, IDOT is the polluter. The Board found, as
16	Mr. Halloran said in the first hearing, that IDOT
17	violated Section 21 of the act by causing open
18	dumping of ACM waste on portions of Site 3 and
19	Site 6 and I have here Dorgan Figure 1, which is
20	not in dispute and I'm going to I'm going to
21	show you guys and I'm going to show the people
22	over here.
23	So this right here is Site 3,
24	the black line right here, and Site 6 starts

	Page
1	here and then goes over this way past the Board,
2	but in the first hearing we were focusing in on
3	this area so we don't have everything, but you'll
4	hear about that later in the hearing. The Board
5	also let me show you guys. Site 3 is this big
6	black here, Site 6 starts here and here and goes
7	further this way.
8	As Mr. Halloran said, the Board
9	also found that IDOT was liable because it allowed
10	open dumping on Parcel 0393 and held because
11	IDOT has held an interest and controlled Parcel
12	0393 since the 1970s. This right here is Parcel
13	0393 within this black area up here. This is
14	Parcel 0393 within this black area up here. The
15	Board also waived weighed all the Section 33
16	factors and found each of them was weighed against
17	IDOT and so what what is our purpose today?
18	Our purpose today is to decide
19	how much money IDOT owes Johns Manville, or JM for
20	short, for cleaning up the ACM waste IDOT dumped
21	in the 1970s. As the Board said in its interim
22	opinion, and this is important, it is "Appropriate
23	that a party recover the cost of performing
24	cleanup as a result of another party's

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1 violations."

2	In other words, a party who
3	cleans up contamination caused by the illegal
4	acts of another can recover the cost incurred.
5	In order to decide how much IDOT owes Johns
б	Manville, the Board asked the Hearing Officer
7	to to take in evidence of three topics,
8	which he has gone through, which are the
9	cleanup, work performed by JM and the portions
10	of Sites 3 and 6 where the Board found IDOT
11	responsible for ACM waste present in soil.
12	Number two, the amount and
13	reasonableness of the cost of the work and the
14	share of the JM cost attributable to IDOT. The
15	good news as Mr. Halloran said is that Johns
16	Manville and IDOT agree on a lot. They agree that
17	Johns Manville spent \$5,579,794 on cleanup work at
18	Site 3 and Site 6 and they also agree that this
19	amount was reasonable. They also agree on how
20	that money should be divvied up among the various
21	tasks performed by Johns Manville as part of the
22	cleanup mandated by the U.S. EPA. That said,
23	there is a dispute and as Mr. Halloran mentioned
24	the dispute primarily focused on Question 3 which

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Page 14 1 is up there on the board on the share of JM's cost attributable to IDOT, including a little bit about 2 3 the areas where IDOT is liable. You will hear from Johns 4 5 Manville witnesses in the cleanup who were 6 involved in the cleanup as well as a Johns 7 Manville expert, Mr. Dorgan, and not surprisingly the experts -- experts from both sides. You will 8 also hear from Mr. Gobelman, the expert from IDOT, 9 and they do disagree as expected on the issues and 10 11 calculate IDOT's share of costs in different ways. 12 Mr. Dorgan uses the Board's causation language to 13 determine how much of JM's response costs were caused by IDOT. 14 15 The testimony of IDOT's expert, 16 Mr. Gobelman, will show that he did not use this 17 language, rather he looked narrowly at the costs he believed were incurred at specific boring 18 locations identified on his own version of the 19 20 Sites 3 and 6 map. Not this map. It's important to stress here 21 that IDOT's liability is not at issue. 22 There was 23 no counterclaim brought in this case. So that all we are dealing with is -- I mean, JM's liability 24

Page 15 1 is not at issue. All we are dealing with is IDOT 2 and IDOT's expert who has already opined that IDOT 3 owes JM \$600,050. JM contends that the amount is 4 much higher and that's why we're here. So let's call our first witness 5 6 after you do your opening. 7 HEARING OFFICER HALLORAN: Thank 8 you, Ms. Brice, very much. Ms. O'Laughlin. 9 MS. O'LAUGHLIN: Yes. Susan, this is our demonstrative Figure 8 from Mr. Gobelman. 10 11 Good morning. Good morning, Illinois Pollution 12 Control Board, members of the Board, good morning 13 counsel and co-counsel. My name is Ellen 14 O'Laughlin and I am here representing IDOT in this 15 action that Johns Manville has brought against 16 IDOT where they seek money to help pay for the cleanup mandated by the United States 17 18 Environmental Protection Agency against Johns 19 Manville pursuant to an enforcement action 20 memorandum. 21 MS. TIPSORD: Slower. 22 MS. O'LAUGHLIN: Slower. 23 MS. TIPSORD: I appreciate it. 24 MS. O'LAUGHLIN: It's a challenge

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1	speaking with these masks. So as everyone knows
2	and has been said, this is our second time here.
3	The first part of this proceeding was with a
4	five-day hearing where Johns Manville presented
5	their theories of liability and IDOT defended
6	themselves and following those five days of
7	contested hearing the Board issued an interim
8	order and the interim order was very specific
9	fortunately for us. It was very specific about
10	what the additional hearing was to be and I quote
11	additional hearing.
12	As explained above, the Board
13	finds that IDOT caused and allowed open dumping
14	of ACM waste. Specifically, IDOT caused open
15	dumping of ACM waste along the south side of
16	Greenwood Avenue within Site 6 (1S, $2/4S$) and
17	adjacent areas along the north edge of Site 3
18	(B3-25, B3-16 and B3-15). IDOT continues to allow
19	open dumping as long as ACM waste remains at these
20	locations. Additionally, the Board finds that
21	IDOT allowed open dumping through its control over
22	Parcel 0393 at sample locations B3-25, B3-16,
23	B3-15, B3-50, and B3-45 (to the extent sample
24	B3-45 falls on Parcel 0393).

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1 So the purpose of today's 2 hearing is additional evidence on what is the 3 costs that are attributable to those areas where the Illinois Pollution Control Board "the Board" 4 5 found IDOT liable and responsible for the ACM 6 waste and I think it's very important to keep that 7 in context exactly what we're doing here. JM is going to try and is trying to expand the areas of 8 liability. We have been here before. We had the 9 five days of hearing. We have been here before. 10 11 IDOT -- excuse me -- JM is trying to expand areas 12 of liability and they make arguments that frankly are wrong and IDOT had, through Mr. Gobelman, has 13 shown just a very straightforward approach given 14 15 the areas and the sample locations for which IDOT, 16 as mentioned by the Board, this is the amount 17 that -- this is the amount that would be IDOT's maximum liability and, I mean, the difference 18 19 could not be more stark. You know, Johns Manville comes 20 up with a figure of \$3,274,000 -- approximately 21 275 million of the \$5,579,794 and I'd like to just 22 give the Board an idea of that huge number of all 23 24 over costs given what is IDOT's area of liability.

Page 18 1 So --2 MS. BRICE: Sorry. Just -- just for 3 the record, sorry, we had objected to these 4 exhibits and based upon foundation and accuracy 5 and reliability we hadn't had a chance yet to -to make that -- renew that objection in the motion 6 7 in limine. So now that you're going to talk about that exhibit I just want to make that cleat that 8 9 we do not agree that that exhibit is accurate. MS. O'LAUGHLIN: And we talked about 10 11 this before. You will make that objection. 12 MS. BRICE: Sure. I just wanted to 13 make it clear for right now. 14 MS. O'LAUGHLIN: Okay. That's fine. 15 So you don't need to make it every single time. 16 MS. BRICE: Understood. 17 MS. O'LAUGHLIN: But if you want to 18 do it again for the record, that's fine, too. 19 HEARING OFFICER HALLORAN: What 20 exhibit is this, Ms. O'Laughlin? MS. O'LAUGHLIN: This is Figure 8 21 and this is Figure 8 to Mr. Gobelman's 22 23 supplemental report, which is Exhibit 207. 24 HEARING OFFICER HALLORAN: Okay.

1 Thank you.

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

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Page 20 1 theory that I think it's important to know that he 2 expands liability and is basically three ways. He expands 6 -- excuse me --3 4 Site 6 area of liability and he wants to reopen 5 the hearing basically from previous. He had made 6 that argument before, Johns Manville had made that 7 argument, and he is trying to rehash areas that have already been decided. The Board decided 01S 8 through 04S. Johns Manville argued that it should 9 be further than that, including to 08S. 10 The 11 Board -- they did not prevail. The Board decided 12 01S to 04S, but nevertheless given that order 13 Johns Manville still wants to argue again that IDOT is responsible for 05S to 08S in addition to 14 15 01S to 04S. 16 And the other -- the second area 17 is this expanded area of 0393. The Board's order references specific sample wells. It does not 18 19 reference areas outside of -- outside of these 20 specific sample wells. So that's the second area, this expansive area 0393, and the third area is 21 22 this theory that Johns Manville is promoting that 23 the remedy has driven IDOT liability whereas it's 24 just sort of a theory for them to, you know,

Page 21 1 frankly be able to capture, to try to argue that 2 more costs should be assessed to IDOT when it's 3 just -- it's just an unfounded theory. 4 So what we'll be doing in 5 this -- in this, you know, hearing is sort of just 6 sorting through each of these theories and each of 7 these liabilities and I will just mention some of the costs apply to the whole area. They can't be 8 segregated. And because Johns Manville has such a 9 large area associated with IDOT liability that the 10 11 overall percentage is high, which carries through 12 to other expenses that are applied to --13 MS. BRICE: Your Honor, Mr. 14 Halloran, sorry. This has been a lot of argument, 15 which is usually not what is presented in opening. 16 HEARING OFFICER HALLORAN: Yeah. 17 MS. O'LAUGHLIN: I'll just try to --18 MS. BRICE: I was very careful not 19 to do that and so I would -- you know, I don't 20 think this is appropriate for opening. HEARING OFFICER HALLORAN: 21 Yeah, 22 it's more argument than not. 23 MS. O'LAUGHLIN: Okay. I was trying 24 to frame the issues for the Board. It's sort of

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1	complicated and a little dull. So I just wanted
2	to introduce these the areas these things so
3	we can sort of sort through it all.
4	HEARING OFFICER HALLORAN: If you
5	can just do an outline.
6	MS. O'LAUGHLIN: Sure.
7	HEARING OFFICER HALLORAN: We can
8	MS. O'LAUGHLIN: We will continue to
9	do that.
10	HEARING OFFICER HALLORAN: Thank
11	you.
12	MS. O'LAUGHLIN: So let me just
13	finish up. The stipulations are correct. So
14	really just what is at issue is what is IDOT
15	responsible for given these numbers. And I think
16	that also to keep in mind is that, you know,
17	culpability has not been waived by the other
18	expert. Culpability, source of pollution,
19	culpability has not been waived by either expert
20	which will most likely be brought up in
21	post-hearing briefs. And having said that, they
22	have covered the cost and the buckets and things
23	like that. So thank you.
24	HEARING OFFICER HALLORAN: Thank

Page 23 1 you. 2 MS. O'LAUGHLIN: We can continue. 3 HEARING OFFICER HALLORAN: Ms. 4 Brice, your first witness. 5 MS. GALE: Hearing Officer, we call 6 Tab Ebihara and I have binders to deliver. 7 MR. GRANT: Kristen, what is on your 8 screen? 9 MS. GALE: Here. MR. GRANT: I was just wondering if 10 11 I should sit on the other side, if I need to see 12 what is presented. 13 MS. GALE: If you want to, 14 absolutely. 15 MR. GRANT: Is that okay with the 16 Hearing Officer? 17 HEARING OFFICER HALLORAN: I didn't 18 know what you're doing. 19 MR. GRANT: I wanted to see what was 20 up on the screen with what the witness was seeing. So can I come up over here? 21 22 HEARING OFFICER HALLORAN: Sure. 23 MR. GRANT: Thank you. 24 Kristen, make the MS. BRICE:

Page 24 1 objection first. 2 MS. GALE: Dr. Ebihara, why don't 3 you sit right there and if you can face the 4 screen, but the microphone is right that way. HEARING OFFICER HALLORAN: 5 Thanks 6 for being here Mr. Ebihara. If you can raise your 7 right hand, the court reporter will swear you in. WHEREUPON: 8 9 TATSUJI EBIHARA called as a witness herein, having been first duly 10 11 sworn, deposeth and saith as follows: 12 MS. TIPSORD: Let's adjust the camera a little bit. 13 MS. GALE: So is it now on where it 14 15 clicks on his face when he's talking? When he talks, I want the viewers to be able to see him. 16 17 MR. NISHIOKA: I don't know if it 18 goes that far. 19 MS. TIPSORD: Would it work to set 20 it for that, but then turn it on speaker view so when he is speaking you would only see him? 21 22 MR. NISHIOKA: Let me see. I can manually do it. It depends what you want me to 23 24 Do you prefer speaker view? do.

Page 25 I prefer speaker view. 1 MS. GALE: 2 MR. NISHIOKA: Okay. 3 MS. GALE: Thank you. Mr. Hearing Officer, before I begin, throughout this -- we 4 5 made an objection to a base map and various 6 figures by IDOT's expert witness Mr. Gobelman and 7 you overruled our objection and before we go any further we're going to ask some questions about 8 those figures and base maps, but by asking these 9 questions Johns Manville is not waiving its 10 11 objections to the base map and the figures and 12 Johns Manville is not agreeing or admitting that 13 Mr. Gobelman has the skill, expertise or education to create the base maps and the figure -- figures, 14 15 nor is Johns Manville agreeing or admitting that 16 the figures and the base maps created by 17 Mr. Gobelman are reliable or admissible or have 18 adequate foundation. 19 So throughout this hearing we 20 may say it occasionally on a shorter matter. We will have a continuing objection to the 21 22 admissibility of the base maps and the figures and 23 objection to Mr. Gobelman's opinions that are 24 based upon that base map and those figures.

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Page 26 1 HEARING OFFICER HALLORAN: More 2 importantly, the Board affirmed these. MS. GALE: 3 I know. I understand. 4 You know, we have a continuing objection 5 regardless of the Board's opinion. 6 HEARING OFFICER HALLORAN: So noted. 7 Thank you. 8 MS. O'LAUGHLIN: Since we are making 9 objections to maps and they expanded their objection to expertise, we also have objections 10 11 which we outlined in our motion in limine, which 12 was denied by the Hearing Officer, but we would 13 like to maintain and preserve all those objections regarding the expertise and the creation of the 14 15 maps and all the arguments that were made during 16 our motion in limine. 17 HEARING OFFICER HALLORAN: So noted. 18 Thank you, Ms. O'Laughlin. Ms. Gale. 19 MS. GALE: Ready. 20 DIRECT ΕΧΑΜΙΝΑΤΙΟΝ 21 BY MS. GALE: 22 Dr. Ebihara, ready? Q. 23 Α. Yes. 24 Q. Very good. Dr. Ebihara, can you

Page 27 1 please state your name for the record. 2 Α. Tatsuji Ebihara. 3 Q. Can you spell Tatsuji for the court 4 reporter, please. 5 Sure. T-A-T-S-U-J-I and last name Α. 6 is E-B-I-H-A-R-A. 7 Thank you. Dr. Ebihara, I'm calling Q. you doctor, why am I calling you a doctor? 8 9 I have a Ph.D. --Α. What is your Ph -- thank you. 10 Q. 11 Α. -- in environmental engineering. 12 Okay. And do you hold any Q. professional licenses? 13 14 Yes, I have professional engineering Α. 15 license in the state of Illinois and the state of 16 New York. 17 And where do you currently work? ο. 18 Α. Here in Chicago. 19 Q. For whom? 20 Α. AECOM. And what is your title? 21 Q. Senior technical leader. 22 Α. 23 And how long have you been with 0. 24 AECOM?

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Page 28 1 I have worked for AECOM since 2012. Α. Okay. And at AECOM, generally, what 2 Q. 3 do you do for them? 4 Α. I have been a project manager on multiple projects for different kinds of 5 6 environmental work. 7 Engineering work? Q. 8 Α. Yes. Very good. Dr. Ebihara, are you 9 0. familiar with the Johns Manville southwestern 10 11 sites in Waukegan, Illinois? 12 Yes. Α. 13 How are you familiar with it? Q. I've worked on multiple projects 14 Α. 15 associated with it since 2007. 16 Q. Okay. And what kind of -- describe 17 generally for me those projects. They're related to developing work 18 Α. 19 plans for investigation, carrying out those 20 sampling investigations work plans and engineering plans for removal actions and then supporting the 21 22 execution of those plans. 23 What were you -- what were you 0. 24 removing?

	Page 29
1	A. We were removing soil
2	Q. And
3	A impacted with asbestos material.
4	Q. And did you prepare any cost
5	analysis related to that work?
6	A. Yes, I did.
7	Q. Very good. Specifically, what were
8	your roles and responsibilities in connection with
9	Site 3 and Site 6?
10	A. I was the project manager
11	responsible for the report and engineering
12	deliverables for all of the southwest sites
13	removal action work.
14	Q. And in that report, what did you
15	guys put in that report? What did you do starting
16	in 2007 generally throughout?
17	A. We put in physical representations
18	about what where asbestos occurred and what
19	removal actions were required by the U.S. EPA.
20	Q. So it involved sampling, right, you
21	sampled the soil?
22	A. Yes.
23	Q. Great. And there was a removal
24	action work plan?

		Page	30
1	A. Yes, developed that.		
2	Q. And you were involved in the		
3	construction project?		
4	A. Yes.		
5	Q. So you communicated with U.S. EPA?		
6	A. Yes.		
7	Q. Very good. And is your work at		
8	Sites 3 and 6 still ongoing?		
9	A. Yes, it is.		
10	Q. How so?		
11	A. I am I prepared an operation and		
12	maintenance manual that is connected with the		
13	southwestern sites and that's under review right		
14	now with the U.S. EPA.		
15	Q. And can you describe for us what an		
16	operation and maintenance is at the site?		
17	A. It's operation and maintenance is		
18	the work that happens and is required every year		
19	of the project after construction is complete and		
20	it's primarily for maintaining the integrity of		
21	the soil engineering barrier at Sites 3 and 6.		
22	Q. So like a cap?		
23	A. It's a cap.		
24	Q. Yeah. And is there any covenants		

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Page 31 1 related to Sites 3 or 6? 2 Α. Yes, there's an environmental 3 covenant for Site 3 that is being finalized and 4 also for the paved portion of Greenwood Avenue. 5 Great. Now, I want to get into Q. 6 professional services and I believe you said you 7 began working at the site around 2007. Who were you working for at that 8 time? 9 I was working for LFR. 10 Α. 11 0. And what timeframe was LFR's 12 involvement at the site approximately? 13 Α. For southwestern sites? 14 Yeah. Q. 15 Probably 2000 -- from 1998 until --Α. 16 until 2012. So Arcadis --17 Arcadis, right? Q. 18 Arcadis purchased LFR. Α. 19 Q. Right. 20 So the involvement continued through Α. about 2012. 21 And your involvement started in 22 Q. 2007, right? 23 24 That's -- my involvement started in Α.

Page 32 1 2007. 2 Q. So about '07 to 2012 was the 3 LFR/Arcadis portion, correct? 4 Α. That's correct. 5 And then what happened -- and what Q. 6 was going on from 2007, generally speaking, to 7 2012 at the site? From 2007 to 2012, LFR and Arcadis 8 Α. developed an extent of contamination work plan 9 that was reviewed and approved by the U.S. EPA. 10 11 Q. And is that commonly called the ECA? 12 It's actually a work plan just --Α. 13 Q. Okay. -- before the ECA. 14 Α. 15 Sorry. Continue. Q. 16 Α. And we also prepared engineering 17 evaluation and cost analysis, which is -- the 18 acronym is ECA. 19 0. Thank you. And that involved a 20 field investigation, too? That's correct. 21 Α. Very good. Who did you submit the 22 Q. 23 ECA to? 24 To the United States EPA. Α.

Page 33 1 And what did they say about it? Q. 2 Α. They approved it. 3 Q. Okay. And then in 2012, what 4 happened? 5 Α. In 2012, I changed employment to 6 AECOM from Arcadis and continued to work on the 7 project as project manager to complete the removal action work plan as well as the other reports --8 9 0. Mm-hmm. -- and engineering deliverables for 10 Α. 11 the project. 12 So you brought the project with you Q. to AECOM? 13 14 Α. Yes. 15 Very good. And you said the removal Q. 16 action work plan, what other work was done then 17 about 2012 to -- ongoing? There were a number of utility 18 Α. 19 agreements that needed to be finalized in order to 20 complete the removal actions. So I led that effort to -- to finalize those. 21 22 And those utilities, just generally, Q. can you identify a few of them? 23 24 AT&T, Nicor Gas, North Shore Gas. Α.

Page 34 1 Wasn't there a water main as well? Q. 2 Α. City of Waukegan water main. 3 Q. Very good. All right. Mr. Dorgan, 4 I want you to open up your binder. 5 THE COURT REPORTER: You called him 6 Mr. Dorgan. 7 BY MS. GALE: 8 Q. I'm sorry. Dr. Ebihara. Sorry. 9 MR. GRANT: We're all going to do 10 that. 11 MS. GALE: Oh, boy. The word is 12 right in front of me. BY MS. GALE: 13 Dr. Ebihara, I want you to open up 14 ο. 15 your binder to Dorgan Figure 1, that's where that came from, which is the second tab and labeled as 16 Exhibit 204-38. 17 18 MS. O'LAUGHLIN: Can you do the trial exhibit number as well? 19 20 MS. GALE: I think Exhibit's 204. 21 MR. GRANT: It's down at the bottom. 22 MS. O'LAUGHLIN: Thank you. I apologize. 23 24 MS. GALE: I get it. So Exhibit

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Page 35 1 204-38. 2 MS. O'LAUGHLIN: That's fine. 3 You're good. 4 (Document marked as Complainant 5 Exhibit No. 204-38 for 6 identification.) 7 BY MS. GALE: 8 Are you there? Q. 9 Α. Yes. Very good. Do you recognize this? 10 Q. 11 Α. I do. 12 What is it? Q. It's a figure prepared by Weaver 13 Α. Consultants Group utilizing the base map 14 15 information that I provided to Weaver. Okay. So you said utilizing the 16 Q. 17 base map information. What is the base map information 18 19 you're describing? 20 MR. GRANT: Can you tell me where I'm sorry. 21 you are? I'm sorry. I'm at 22 MS. GALE: 204 - 38. 23 24 MR. GRANT: Okay. Thank you.

Page 36 1 MS. GALE: It should be on the 2 second tab. Got it? BY MS. GALE: 3 4 Q. Okay. Going back to my question. 5 You mentioned the base map you provided. Please describe for me what the 6 7 base map is. The base map is digital information 8 Α. that is stored in an autoCAD file that identifies 9 site boundaries, site features, roadways, utility 10 11 locations and sample locations. 12 And AutoCAD what is that? Q. 13 Α. It's a computer software used for engineering design work. 14 15 Like to create maps? Q. 16 Α. Yes. And what -- what kind of data do you 17 0. 18 put into an AutoCAD to create these maps? Yes, sir? 19 HEARING OFFICER HALLORAN: 20 Ms. O'Laughlin. 21 22 MS. TIPSORD: CMS requires you to wear them inside even if there's six feet 23 24 distance.

Page 37 1 BY MS. GALE: 2 Q. What kind of data do you put into 3 the AutoCAD software to create the maps? 4 Α. It's locational information points, 5 lines. 6 Such as longitude and latitude? 0. 7 Α. That's right. Or state plane coordinates. 8 9 State plane coordinates. Is plane 0. P-L-A-N-E or P-L-A-I-N? 10 11 Α. P-L-A-N-E. 12 Thank you. I believe you said this, Q. 13 but you provided the AutoCAD base maps to Mr. Dorgan? 14 15 Α. Yes. 16 Q. Very good. Okay. So I want you 17 next to flip to 229 on your -- on your binder and 18 technically it's Exhibit 229F-377. Do you see that there? 19 20 (Document marked as Complainant 21 Exhibit No. 229F-377 for 22 identification.) 23 BY THE WITNESS: 24 Α. Yes.

Page 38 1 BY MS. GALE: 2 Q. Okay. Do you recognize this? 3 Α. Yes. What is it? 4 Q. 5 Α. It appears to be a screenshot of an 6 open AutoCAD file of Site 3. 7 Okay. So by screenshot, we're Q. looking actually at a picture of the software 8 9 AutoCAD? 10 Α. That's correct. 11 Q. Is that what you prepared -- what 12 you worked off of when you created the auto -- the 13 base maps? 14 Α. Yes. 15 Q. And --16 MR. GRANT: Did he say he created 17 the base map? 18 THE WITNESS: Yes. 19 MR. GRANT: Not AECOM generally, but 20 him personally? 21 BY MS. GALE: 22 Dr. Ebihara --Q. 23 MR. GRANT: I just want to clarify. 24 MS. GALE: Okay.

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Page 39 1 BY MS. GALE: 2 Q. Dr. Ebihara, you were part of the 3 preparation of the base maps? 4 Α. Yes. 5 Q. And you oversaw --6 The original base map created by LFR Α. 7 under my authority. 8 Q. Yes, you oversaw --9 Α. Oversaw the development. Of the base maps. 10 Q. 11 Α. Yes. 12 You approved the final version of Q. 13 the base maps? 14 Α. Yes. 15 ο. So I think we discussed this. The 16 input data that goes into an AutoCAD you said the 17 state plane location --Coordinates. 18 Α. 19 0. -- coordinates. Now, where do those 20 come from? 21 They come from land survey Α. information, from an official land surveyor and 22 23 they come from utilizing a field global 24 positioning system unit that is very precise and

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Page 40 1 it records a location and that -- that data --2 those data are directly inputted into the AutoCAD 3 software. 4 Q. And is that a standard engineering 5 practice? 6 Α. Yes. 7 And in this AutoCAD software --Q. MR. GRANT: Before you ask another 8 9 question. Is this an objection? 10 MS. GALE: 11 MR. GRANT: Are you just going to have the exhibits that you're -- in here that 12 13 you're referring to up there? Because then I can 14 get out of the Board's way. 15 MS. GALE: Yes. That's accurate. 16 MR. GRANT: Okay. I'll sit down. 17 BY MS. GALE: 18 ο. A -- shoot. Okay. Dr. Ebihara, 19 looking at Exhibit 229F-377, that's just a In an AutoCAD, describe for me what 20 picture. other elements are in an AutoCAD that you can't 21 22 see in this picture. 23 The elements that are visible on a Α. 24 particular screenshot are part of layers of

Page 41 1 information that are turned on or off. So there 2 is -- depending on what you're interested in 3 viewing or the purpose of generating a figure, 4 you'll turn on the -- the layers that are required 5 of the information and then leave others off. 6 Mm-hmm. 0. 7 So there's a lot of digital Α. information stored within it. 8 9 0. Very good. And when you provided the AutoCAD to Mr. Dorgan, you provided the whole 10 11 thing? 12 All of the -- all of the information Α. 13 requested. Okay. And in your work using this 14 ο. 15 AutoCAD base map, how is this used? 16 Α. It was used to develop all the 17 engineering plans and site figures for all of the U.S. EPA submittals that were reviewed by the U.S. 18 19 EPA. 20 0. And so they were put into your reports that you submitted to U.S. EPA? 21 22 Α. Yes. 23 Okay. And what did the U.S. EPA do 0. 24 with those reports?

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Page 42 1 They approved them. Α. 2 Q. And I think I already asked this, 3 but I'll ask it again. 4 By the figures, you mean the 5 maps of the site were in the reports were based 6 upon this AutoCAD, right? 7 Α. Yes. Thank you. Dr. Ebihara, let's 8 Q. 9 actually flip to 213. Ultimately, based upon all those 10 11 reports you submitted a final report to U.S. EPA, 12 didn't you? 13 (Document marked as Complainant Exhibit No. 213 for 14 15 identification.) 16 BY THE WITNESS: 17 Α. Yes. BY MS. GALE: 18 Is that what we're looking at in 19 Q. 20 213? 21 Α. That's correct. Now, 213 for the sake of brevity is 22 Q. about 20 pages in your binder, right? 23 24 Α. Yes.

Page 43 1 But in your final report, how big Q. was it? 2 3 Α. It was over 3,000 pages. 4 Q. Too much -- it would probably cover 5 your entire table, wouldn't it? 6 Α. Yes. 7 So -- and who wrote the final 0. report, which is Exhibit 213? 8 9 Α. This is a report by AECOM that I supervised and reviewed and participated in. 10 11 Q. So --12 Α. So my team wrote the report. 13 Q. Right. And your signature is right there, right? 14 15 That's correct. Α. 16 Q. Okay. And you submitted this report 17 to U.S. EPA? 18 Α. Yes. 19 Q. And what did U.S. EPA say? 20 They -- they have approved all of Α. the construction, the physical construction, and 21 22 removal action completion. They have not formally 23 approved the final report in its entirety because 24 the environmental covenants for Sites 3 and 6 have

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Page 44 1 not been finalized yet. 2 Q. But they're maps in this final 3 report? 4 Α. Yes. 5 Q. And did they approve those maps? 6 They approved them because they Α. 7 didn't have further comments to request any revisions to them. 8 Very good. Dr. Ebihara, at some 9 0. point, you became aware of this litigation, isn't 10 11 that correct? 12 Α. Yes. 13 And you learned that Mr. Dorgan was Q. 14 the expert? 15 Α. Yes. 16 Q. And what, if any, information did he 17 ask from you? 18 Α. He asked me for the pertinent 19 documents about the removal action, but also requested cost information about Sites 3 and 6 20 that the LFR, Arcadis and AECOM had expended. 21 22 And what did you do when he asked Q. you for that information? 23 24 I provided a summary of that Α.

Page 45 1 information of -- to him. 2 Q. Mm-hmm. Along with the AutoCAD, you 3 provided him the costs as well? 4 Α. Yes. 5 And when you provided that Q. 6 information to him, what did you create, generally 7 speaking? I created correspondence, two 8 Α. different ones, one updated from the previous one 9 to summarize in tables the costs invoiced to JM 10 11 for the southwestern sites project as well as the 12 costs going forward that would end in completion 13 of the removal action and the final reports. 14 Q. Very good. 15 MS. GALE: I just want to ask, can 16 you hear him? 17 THE COURT REPORTER: Yes. 18 MS. GALE: Okay. Can you hear him? 19 HEARING OFFICER HALLORAN: Mm-hmm. 20 BY MS. GALE: All right. Let's flip now to 21 Q. Exhibit 204 -- it's actually in your binder 204 22 23 Exhibit B. Do you recognize this? 24

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Page 46 1 (Document marked as Complainant 2 Exhibit No. 204B for 3 identification.) 4 BY THE WITNESS: 5 Α. Yes, I do. 6 BY MS. GALE: 7 What is it? 0. It's the second of two letters that 8 Α. 9 I prepared correspondence to Brent Tracy of Johns Manville and Doug Dorgan of Weaver Consultants 10 11 Group. 12 MR. GRANT: Can I interrupt for a 13 second, Kristen? Sorry. 14 MS. GALE: Sure. 15 MR. GRANT: You said 204(c)? MS. GALE: Exhibit B. 16 17 MR. GRANT: B. 18 MS. GALE: I'll get there. I will 19 get you there. 20 MR. GRANT: I have it. I'm sorry. 21 BY MS. GALE: 22 So if you flip to the first page, Q. 23 Exhibit B, it's your understanding this is part of 24 Mr. Dorgan's expert report, correct?

	Page 47
1	A. Yes.
2	Q. And so he has inserted in his report
3	your letter and the information attached, right?
4	A. That's correct.
5	Q. And you created this. When did you
6	create this?
7	A. I created this in 2018, February 15,
8	2018, when I was the senior project manager for
9	that project.
10	Q. Okay. And for what purpose?
11	A. To summarize the total costs
12	invoiced for Sites 3 and 6 between April 2007 and
13	September 2017 as well as the costs that were
14	forecasted to be required to get the project to
15	completion.
16	Q. Mm-hmm. Okay. And I believe you
17	said it, but how we looked through this. There
18	are various tables and charts.
19	How did you go generally
20	speaking, how did you go about creating this
21	document?
22	A. I took every invoice issued to Johns
23	Manville for the Sites 3 and 6 projects. So
24	really all of the invoiced records for that time

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

Page 49 1 periods as I was supervising each of those team 2 members directly. 3 Q. Okay. Great. So let's -- let's turn to Table 1 in Exhibit 204. That's actually 4 5 on Exhibit 204-49. 6 (Document marked as Complainant 7 Exhibit No. 204-49 for identification.) 8 BY MS. GALE: 9 I have a magnifying glass if 10 0. Okay. 11 you need it to see. Would you like to use the 12 magnifying glass? 13 I'm okay. Α. I'll be asking you questions. 14 0. So, 15 Dr. Ebihara, what is Table 1 and you'll see that 16 it is a number of -- there are four pages for this 17 table? This is a summary for Site 3 and 18 Α. 19 Site 6. It's costs that were invoiced between 20 April 28th, 2007, and September 8th, 2017. Okay. So when you said earlier 21 Q. about going back to invoices and looking at 22 23 timesheets, that's what you did in Table 1, right? 24 Α. That's correct.

Page 50 1 Okay. And you said you started in Q. 2 2007. 3 Why -- why did you start in 2007 Why didn't you go back further? 4 for costs? 5 Α. Right. 2007 I believe was June was 6 when the settlement agreement for southwest sites 7 was issued. So it kicked off a series of requirements for Johns Manville to respond and 8 prepare for the U.S. EPA. 9 So that was the beginning of my 10 11 involvement, but also the beginning of where the 12 invoice records specifically identified southwestern sites --13 14 Right. 0. 15 -- as an invoice item. Α. 16 Q. So before 2007, it was general, 17 right? It was folded into the consulting 18 Α. 19 work we were doing, but not specifically 20 identifies southwestern sites in Sites 3 and 6 work. 21 So you wouldn't be able to in 22 Q. your -- looking at the invoices to distinguish, 23 24 right?

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Page 51 1 That's correct. Α. 2 Q. Okay. And then I want to look at --3 let's see if I can see it here. 4 MS. GALE: Drew, can you go over to 5 the right. 6 BY MS. GALE: 7 This is easier to see. 0. I don't know 8 if they can see it on the Webex, but I just want to point out this. 9 10 MR. NISHIOKA: I can zoom out. 11 MS. GALE: I'm sorry? 12 MR. NISHIOKA: I can zoom out. 13 MS. GALE: No, the Webex just can't see the screen. 14 15 BY MS. GALE: 16 Q. So on the far right-hand side of 17 Table 1, there are various columns, what are those columns? 18 These are the task bucket categories 19 Α. 20 that I divided the work into for each invoice total. 21 22 Q. Okay. Great. So let's flip to 23 Table 2. Do you recognize this? 24 MR. GRANT: Can you give me the page

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Page 52 1 number, Kristen? I'm sorry. 2 MS. GALE: Sure. 3 MR. GRANT: 204-50. MS. GALE: Table 2 is 204-53. 4 5 (Document marked as Complainant 6 Exhibit No. 204-53 for 7 identification.) 8 BY MS. GALE: 9 So, Dr. Ebihara, can you describe 0. for me what Table 2 is? 10 11 Α. Table 2 is the completion costs for 12 Site 3 that were anticipated to be incurred after the end of that final invoice cost provided in 13 Table 1. 14 15 Q. How did you go about putting this 16 together? 17 We understood what was yet to be Α. completed and those line items were -- were 18 identified and estimated and those are totaled at 19 20 the bottom of the page. 21 So you can -- you can see that 22 most of the work was involving establishing of 23 thriving vegetative cover and then completing some 24 project management regulatory support and final

Page 53 1 report preparations. 2 Q. Okay. And then flipping to Table 3, 3 which is on Exhibit 204-56. 4 (Document marked as Complainant Exhibit No. 204-56 for 5 6 identification.) 7 BY MS. GALE: Generally speaking, what is this? 8 Q. This is a completion cost summary 9 Α. for Site 6, in all of Site 6. So it's the similar 10 11 table to site -- Table 2, but associated with Site 12 6 where it identifies the costs that were 13 anticipated to be incurred to get through to the end of the final report. 14 15 Did you use a similar methodology to ο. create Table 3 as you did for Table 2? 16 17 Α. Yes. 18 Flipping to Table 4. Q. 19 Again, Dr. Ebihara, do you need 20 a magnifying glass? 21 I'm okay. Α. Table 4, what is this? 22 Q. Good. Table 4 is a total of operation and 23 Α. 24 maintenance costs for Sites 3 and 6.

Page 54 And how did you go about putting 1 Q. 2 this together? 3 This is -- this is based on an Α. estimate of professional labor costs as well as 4 5 material costs that would be needed every year to 6 maintain that soil cover for Site 3 and that's 7 developed with further detail on page -- on Table 5, which is Exhibit 204-60. 8 9 (Document marked as Complainant Exhibit No. 204-60 for 10 11 identification.) 12 BY MS. GALE: 13 Got it. And we'll get there. Q. So I see this goes out to 2047, which is 30 years, why 14 15 is it 30 years? 16 Α. Thirty years is the normal basis for 17 EPA estimates for long-term operation and 18 maintenance. 19 0. Very good. I think you already said 20 this, but you -- on Table 5, which is on 204-60, can you just tell us how Table 5 connects to Table 21 22 4? Table 5 provides details of what 23 Α. 24 the -- what the total number each year, the total

Page 55 1 costs each year is based on. So it's engineering, 2 it's staff hours and rates, that total, as well as 3 expenses for signs and stone materials to keep the 4 soil covering in good condition. And then in Table 4 it's that value 5 Q. 6 from Table 5, but projected out using what kind of 7 projection? It includes an average rate of 8 Α. 9 escalation, but it assumes the same scope of work each year is incurred, each year to maintain the 10 11 cap. 12 Okay. Dr. Ebihara, going back to Q. look at all of 204-46 and your tables from 13 February 15, 2018, do you believe you've 14 15 accurately reflected the costs since 2007 at Site 3 and Site 6? 16 17 (Document marked as Complainant Exhibit No. 204-46 for 18 19 identification.) 20 BY THE WITNESS: 21 Α. Yes. BY MS. GALE: 22 23 Now, I want to flip to and discuss 0. 24 the task buckets that we mentioned before.

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Page 56 1 Dr. Ebihara, are you familiar 2 with the location of the utility lines generally 3 speaking in Site 3 -- excuse me -- Site 6? 4 Α. Yes. 5 Okay. Let's flip to Exhibit 67-542, Q. 6 which is the next thing in your binder. 7 (Document marked as Complainant Exhibit No. 67-542 for 8 9 identification.) BY MS. GALE: 10 11 Q. Do you recognize this? 12 Yes, I do. Α. 13 What is it? Q. 14 Α. It's a figure prepared by AECOM that 15 describes Site 6 and the proposed excavation, the 16 soil excavation areas, along the north and south 17 shoulders. North and south shoulders of? 18 ο. 19 Α. Site 6. Greenwood Avenue, right? 20 0. Greenwood Avenue. 21 Α. 22 Q. Yeah. For a person that has never seen this before, it's kind of an interesting map 23 and I had trouble with it, can you just generally 24

Page 57 1 describe for me how this figure works? 2 Α. The top part of the figure shows the 3 right of way of Greenwood Avenue and the very top 4 portion of the figure is the western half of Site 5 6 and just below it is the eastern half of Site 6 and they -- they match up at the match line that 6 7 is described in the upper right corner. So it's a -- it's a continuous 8 9 road right of way and it's a way of representing 10 in a figure so there is enough detail that is 11 available. And it was done this way so you 12 ο. 13 wouldn't have a two-foot page heading out of the binder, right? 14 15 That's right, with really small Α. 16 print. Exactly. And so looking at this 17 ο. map, these two rows are actually connected at the 18 19 match line, right? 20 Α. That's correct. Very good. And I want to focus on 21 Q. the AT&T lines now. Let's look at the legend and 22 there is a -- for the record, I'll say pink, but 23 Dr. Ebihara does not see color very well. So this 24

Page 58 1 will be somewhat difficult, but do you see the 2 Comm, C-O-M-M, line? 3 Yes. Α. 4 Q. What is that for? 5 Α. That's for the AT&T underground 6 phone cables that were present --7 MR. GRANT: Can you show --BY THE WITNESS: 8 9 -- before any work was completed. Α. MS. GALE: Pink Comm line right 10 11 there. 12 THE COURT REPORTER: Can you repeat 13 the end of your answer. AT&T underground phone cables that were --14 15 BY THE WITNESS: 16 Α. Present before the removal action work was performed. 17 BY MS. GALE: 18 And that -- is the -- so before the 19 0. 20 removal action was begun, what happened to them during the removal action? 21 22 They were removed or deactivated, Α. decommissioned before the removal action was 23 24 started.

Page 59 1 So looking at the map, do you Q. Okav. 2 see the Comm line, and it is difficult to see, but 3 I'll try for the record, on the northside of the 4 top row beginning at 01N? 5 Α. Yes. 6 Okay. And where does that go to, on 0. 7 the northside of the top row, approximately what sample point? 8 9 Approximately, 27N. Α. 10 0. 27N, right. And then what happens 11 there at 27N? 12 That underground cable comes up out Α. 13 of the ground and goes up to overhead utility 14 poles. 15 And those overhead utility poles, Q. 16 that's the OH? 17 Α. That's correct. 18 And these are -- these OH, overhead ο. 19 utility poles, this is a representation before 20 construction began, is that right? That's right. 21 Α. MR. GRANT: I'm lost a little bit. 22 23 Can you show me? I don't see an OH. 24 MS. GALE: Right there.

Page 60 1 BY MS. GALE: 2 Q. So the OH is on the far right-hand 3 side right next to 29N? 4 Α. That's correct. 5 Q. Okay. And that OH continues on 6 through the match line on the -- excuse me --7 eastern -- towards the east on Greenwood Avenue, right? 8 That's right. Continues to proceed 9 Α. east and ends approximately at --10 11 MR. GRANT: Mr. Halloran, I'm going 12 to object at this point. I don't understand the relevance of this testimony. This is way outside 13 of the area that the Board found that IDOT was 14 15 involved. 16 HEARING OFFICER HALLORAN: I don't 17 know what your intention is. Ms. Gale? MS. GALE: This is related to the 18 19 calculations that were by the experts in their 20 estimation of what the costs were associated with. Part of the calculations that we contend 21 22 Mr. Gobelman did were inaccurate based upon 23 inaccurate information about his estimates of how 24 far these lines went. So it's related to, in

Page 61 1 effect, the denominator of Mr. Gobelman's 2 estimations. 3 HEARING OFFICER HALLORAN: 4 Mr. Grant? 5 MR. GRANT: I'll withdraw my 6 objection. 7 HEARING OFFICER HALLORAN: Okay. 8 Thank you. You may proceed. BY MS. GALE: 9 I think we said it, but I 10 0. Okay. 11 lost -- so -- these overhead lines depicted on 12 this map, these were there before construction 13 occurred, right? 14 Α. That's correct. 15 Q. And during construction, what, if 16 anything, was done on these overhead lines? 17 Α. They were -- they were not modified. 18 Q. They were not modified? 19 MR. GRANT: Let me object to the 20 term construction. What do you mean by 21 construction? You mean construction of the AT&T 22 lines? 23 MS. GALE: Okay. Fine. 24

Page 62 1 BY MS. GALE: 2 Q. I'm using the term -- construction 3 term, what do you think I'm meaning by that? It's the soil removal action and any 4 Α. 5 related utility work that was required to allow 6 that to occur safely. 7 Okay. So where did the work on the Q. north side of Greenwood Avenue end? 8 On the north side, approximately 9 Α. 58N. 10 11 Q. On the north side? 12 Utility work or soil? Α. 13 I'm sorry. You're right. Q. Where did the utility work 14 15 related to Comm line end? 16 Α. It ended at approximately 27N. 17 0. Thank you. And so, to your 18 knowledge, were any costs incurred for the --19 beyond 28 -- 27N by Johns -- excuse me -- by AT&T 20 that AT&T billed Johns Manville for? For the north side? 21 Α. 22 Q. Correct. 23 No, there were no additional costs. Α. 24 Thank you. All right. Q. I want to

Page 63 1 now focus on the south side. Looking at the south 2 side, you see the Comm on the western end that is 3 actually not in the road and it heads northeast on the south side of --4 5 Α. Yes. Where does it sort of enter the 6 0. 7 area? 8 MR. GRANT: Excuse me. Can you show 9 I thought you were on this one. me? 10 MS. GALE: So match line. That's 11 how this works. 12 MR. GRANT: Yeah, I know. So it 13 goes here and continues there, right? 14 MS. GALE: Continues here, correct. 15 MR. GRANT: You're here. 16 MS. GALE: South end. 17 BY MS. GALE: 18 So on the south end starting on the Q. 19 western edge of Greenwood Avenue, where does the 20 Comm line seem to start? Approximately, 03S. 21 Α. And then it travels along 22 Q. Mm-hmm. the south side to approximately what sample 23 24 number? I think you're going to have to cross the

Page 64 1 match line. 2 Α. Right. It's 37S or 38S. 3 Q. Yeah. In between 37 and 38, right? 4 Right. Α. 5 Q. Okay. And then what happens to that 6 line? 7 Α. It goes across Greenwood Avenue from south to north. 8 Mm-hmm. And connects to --9 0. The overhead line. 10 Α. 11 Q. Thank you. So now let's look at the 12 AT&T fiber line. Looking at the legend, the AT&T 13 fiber line is orange with FIB. So it's -- for your sake, it's the top in the legend, the top 14 15 FIB. 16 Α. That's correct. 17 Okay. And this one is a bit harder Q. to see, but looking at the north side of Site 6 so 18 19 the top, top row, do you see the orange FIB 20 running along --21 Α. Yes. 22 Q. -- on the top? 23 Yes, I do. Α. 24 Q. Okay. And you see that it travels

Page 65 1 on the north side of Site 6 from one end to 2 approximately where? 3 To 27N. Α. 4 Q. Okay. 5 MR. GRANT: I'm going to renew my 6 objection on relevance because there was -- there 7 was no finding of any involvement by IDOT on the north side of Greenwood Avenue in its order. 8 So, number one, I say this is a very cluttered 9 document. I am continuing to get lost on it. 10 11 HEARING OFFICER HALLORAN: Ms. Gale? 12 MR. GRANT: Number two, to the 13 extent that this is running on the north side of Greenwood Avenue, it really has no relevance to --14 15 to what we're here for today. 16 HEARING OFFICER HALLORAN: Ms. Gale? Sure. Well, first of 17 MS. GALE: all, I mean, it's a cluttered document, but this 18 19 was a document that was submitted to -- to the 20 U.S. EPA as part of the work done. So I can't help that it's cluttered by AECOM. It has the 21 information of the utilities. 22 23 Secondly, as I said before, the 24 purpose of this -- of this testimony and this

Page 66 1 description is to rebut the calculations made by 2 Mr. Gobelman in his expert report. He made certain calculations and certain distances that we 3 4 contend are inaccurate based upon what the work that was done there and because of his 5 6 calculations that are inaccurate because his 7 denominator is inaccurate. So this goes towards the overall what was done and what was not done at 8 the site. 9 MR. GRANT: If they're talking about 10 11 a utility line that is running -- from what I can 12 see, if I am seeing this correctly, this orange 13 line runs only on the north side of Greenwood Avenue where we weren't involved at all. 14 15 MS. GALE: Mr. Hearing Officer, one 16 last thing. This was an interim order. Т 17 understand the Board made its decision. It is an interim order and we still contend the Board may 18 19 be wrong and so part of, you know, in an interim 20 decision we would like this to be in there in case there is a different decision at a later basis 21 22 that includes these sites so that we can 23 contend --24 HEARING OFFICER HALLORAN: Did JM

	Page 67
1	file a motion to reconsider? I mean, the Board
2	I'm looking at my cryptic notes found IDOT
3	violated at open dumping waste on the south side
4	of Greenwood Avenue. I don't see anything north
5	of Greenwood Avenue.
6	MS. GALE: Right. But we don't have
7	to just because it's an interim order. We
8	don't have to appeal it or do a motion to
9	reconsider. The Board made its decision. We may
10	disagree with it, but it's still available for
11	appeal later.
12	HEARING OFFICER HALLORAN: The issue
13	is not for this hearing, correct? Share of JM's
14	costs attributable to IDOT based on what they
15	found.
16	MS. GALE: Right. But our
17	contention is you have to understand all the costs
18	to understand what should be assigned to each
19	party.
20	MR. GRANT: Mr. Halloran.
21	HEARING OFFICER HALLORAN: It sounds
22	like you're backdooring it.
23	MR. GRANT: We're going to be
24	getting into this. You know, this is not Day 6 of

Page 68 1 the 2016 hearing. We're not still putting on a 2 bunch of engineers to find, you know, what's on 3 Site 3. The Board had to review a ten-foot shelf of exhibits and go through a lot of work to come 4 5 up with the order that it came up with. 6 Yeah, it's an interim order, 7 but -- but it was an interim order that set exactly the purpose and the scope of this hearing 8 and you mentioned it at the beginning, it's been 9 mentioned several times, I hesitate to read the 10 11 order again, but basically it's -- it's defined 12 the share of IDOT's costs for open dumping at 13 these specific spots and they've got it laid out very carefully in their order exactly where those 14 15 spots are that is meant to be found. 16 The Johns Manville site has got 17 asbestos all over the place. It's a Superfund site. And after all the work we did in 2016 to 18 19 pin down the areas where IDOT may have been 20 involved for moving around this stuff, the Board did it and, I mean, obviously they're not happy 21 22 with the scope of the Board's decision. They're 23 asking for all of Site 3 and an extensive part of 24 Site 6 on both sides of the road and they didn't

Page 69 1 get it. 2 We're not particularly happy 3 that we were found liable for open dumping either, 4 but we're not challenging that in this hearing 5 because that's not the purpose of this hearing. So I do think the scope needs to be limited. This 6 7 is not giving them an opportunity to reopen entire new areas of this very contaminated site to try to 8 9 ascribe it to IDOT. Otherwise, we're going to have another six-day hearing with trying to find 10 11 liability that has already been done. 12 MS. BRICE: Mr. Halloran, if I may. 13 HEARING OFFICER HALLORAN: Yes, you 14 may. 15 MS. BRICE: The Board order said it 16 is looking at the share of JM's cost attributable 17 to IDOT. Within that context, the Board said "A party can recover the costs of performing cleanup 18 19 as a result of the other party's violations." 20 They didn't say you look at each little dot and how much was -- was, you know, spent at that 21 specific dot. That dot is obviously 22 23 representative of a bigger area. 24 It's not our fault that it was

1 decided upon the basis of sampling locations. 2 We're not trying to -- there was no -- we researched this. We did not have to appeal 3 4 anything at this point in time. 5 Listen, we're not trying to 6 reopen everything with respect to this testimony. 7 This testimony is only to rebut what their expert did. Their expert assumed -- and they did this. 8 He calculated these lines. He said the lines run 9 all the way across the north side of 6 and all the 10 11 way across the south side of 6. He calculated 12 that number and then he said IDOT's portion of 13 responsibility is from here to here. He divided it, came up with a percentage and then applied 14 15 that percentage to the cost incurred for that AT&T line task bucket. 16 17 So how in the world we can't -if we can't rebut what he is saying with his 18 19 assumption that the lines went all the way across 20 the north side of Site 6 and all the way across the south side of 6 -- this is their testimony. 21 22 This isn't our testimony. 23 MR. GRANT: I would -- I guess my 24 response to that is that should be handled during

Page 71 1 the examination of Mr. Gobelman. 2 MS. BRICE: But we're laying the 3 foundation for it. 4 MR. GRANT: Laying the foundation. 5 We're get into areas on the north side of Site 6 6 that by their own map show is outside of the area 7 as defined by the Board. 8 HEARING OFFICER HALLORAN: You know, 9 just by these arguments in front of me and the 2016 order is not crystal clear and understandably 10 11 It was mentioned again I think in the 2018 so. 12 order that the parties were in disagreement. They didn't address it there. 13 Ms. O'Laughlin addressed it in 14 15 her opening. It's rather confusing. So, you 16 know, my thought is that they're going to go ahead 17 and lay the foundation. I mean, nowhere does it 18 say north side of Greenwood, but, again, it's --19 it's a complicated case. 20 MS. BRICE: Thank you. HEARING OFFICER HALLORAN: 21 It is what it is and I wish it didn't have to be, but I 22 23 will allow Ms. Gale to continue, but I hope you 24 don't reopen this whole thing again.

Page 72 1 Right, exactly. MS. O'LAUGHLIN: 2 HEARING OFFICER HALLORAN: Т 3 haven't, but -- Ms. O'Laughlin? 4 MS. O'LAUGHLIN: Right. I mean, 5 that's the concern here. I thought Ms. Gale was 6 identifying that they wanted this to be sort of a 7 reconsideration where they could go make arguments that have already been made and I understand in 8 9 the portion of Dorgan's report we may disagree on that, but we don't need to blow open this whole 10 11 liability. 12 MS. BRICE: I can tell you we are 13 not looking for any costs on the north side of 6. 14 MS. GALE: This is 5. 15 MS. BRICE: I know. But just so you 16 know none of the costs that Mr. Dorgan is going to 17 testify to have anything to do with the north side of 6. 18 19 HEARING OFFICER HALLORAN: Thank you 20 Anything else? so much. 21 MR. GRANT: Nothing. HEARING OFFICER HALLORAN: 22 You may 23 proceed. Sorry, Ms. Gale. 24 MS. GALE: No problem.

Page 73 1 BY MS. GALE: 2 Q. Okay. I may have to backtrack. 3 Okay. The FIB orange line, that's the AT&T 4 fiberoptic cable, right? 5 Yes. Α. Okay. And, again, looking at the 6 0. 7 north side at 01N, do you see the orange FIB line? 8 Α. Yes. 9 Do you know -- we did this. You 0. said it traveled to 27N and went to the OH. Okay. 10 11 Sorry. 12 Now, the AT&T orange FIB line, did it travel on the south side of Site 6? 13 14 Α. AT&T --15 MR. GRANT: Just let me point out --16 again line --17 MS. GALE: Actually you're going to get a no on this one. 18 MR. GRANT: You said FIB line? 19 20 MS. GALE: Here. 21 MR. GRANT: Thank you. BY MS. GALE: 22 23 So the orange FIB line we already 0. said is on the north side 27N. Now, I'm looking 24

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	Page 74
1	at the south side. Do you see the orange FIB line
2	on the south side of Site 6?
3	A. Yes.
4	Q. You do?
5	A. Is it orange? I don't know.
6	Q. It's not orange.
7	A. You have to distinguish between AT&T
8	and ComEd.
9	Q. Any FIB on the south side, on the
10	south side. It's not there, right?
11	A. Is there a color difference between
12	the AT&T and the ComEd fiberoptic cable?
13	Q. There is. The ComEd C-O-M-M is
14	pink, but the FIB is orange. It's on the north
15	side, but it's not on the south side, right?
16	A. Yes.
17	Q. Great. Forgive me. We have
18	coloring issues.
19	So I want to look actually at
20	the bottom of this figure Exhibit 67-542. On the
21	right-hand side, there is these charts excavation
22	coordinates. What are those so I just said it,
23	but what are these charts for?
24	A. It's to identify the corners of the

Page 75 1 required excavations to remove asbestos-containing 2 material --3 MS. BRICE: Can you point me? 4 MR. GRANT: Just point for the 5 record. They're essentially illegible on this 6 exhibit. 7 MS. GALE: Okay. BY MS. GALE: 8 Would you like -- I have a 9 0. magnifying glass. Would you like to look at it? 10 11 MR. GRANT: I have one in my office. 12 No, I'm just saying this exhibit is illegible and 13 obviously you know what it is because you've looked at it and prepared testimony on it, but I 14 15 have no idea what these things are. 16 MS. GALE: Again, I have a 17 magnifying glass if you'd like to use it, but we 18 also have it blown up here. 19 MR. GRANT: Let me come around. 20 MS. GALE: So if you want to focus 21 in on the right-hand corner? 22 MR. NISHIOKA: Right here? 23 MS. GALE: Yes. There we go. 24 HEARING OFFICER HALLORAN: Can you

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Page 76 1 see it, Mr. Grant? 2 MR. GRANT: Yes. I apologize for 3 invading her space here. 4 MS. GALE: I'll load it up again. 5 MR. NISHIOKA: I have to go to the 6 bottom right. 7 MS. GALE: Mm-hmm. I just need the chart table. Perfect. 8 BY MS. GALE: 9 So those coordinates, what are 10 0. 11 those -- describe for me what those coordinates 12 are. They're longitude and latitude. 13 Α. So specific locations, point locations, on the 14 15 Greenwood Avenue right of way where excavation is to be performed to that limit. So each -- each 16 17 corner --18 Q. Right. 19 Α. -- of the rectangular excavation 20 area. 21 And those relate to the GPS Q. locations, right? 22 23 Α. Yes. 24 Q. Okay.

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Page 77 So it allows the field construction 1 Α. 2 worker to know what limit to dig to. 3 MS. GALE: Chris, you might want to 4 qo back again. 5 MR. GRANT: Thanks for the warning. 6 MS. TIPSORD: You can pull a chair 7 around. MS. GALE: We're almost done with 8 this exhibit. 9 10 MS. VAN WIE: I do have a question. 11 HEARING OFFICER HALLORAN: Ms. Gale? 12 MS. GALE: Yes. 13 HEARING OFFICER HALLORAN: Member Van Wie has a question. 14 15 MS. VAN WIE: I do have a question. 16 I can't quite see the furthest left corner of 17 where it says 123. Is that referring to a 18 specific boring location or --19 MS. GALE: I'm getting there. 20 MS. VAN WIE: Okay. 21 MS. GALE: I'm doing it right now. 22 Okay. So if you want to zoom out a bit. 23 MR. NISHIOKA: How much? 24 MS. GALE: Keep going. One more

Page 78 1 time. BY MS. GALE: 2 3 Q. Right. So, Dr. Ebihara, I'm looking 4 at this -- this excavation point which has --5 excavation points 28, 30, 29 and 27, and this is an excavation. The hashmarks are three feet 6 7 proposed, is that accurate? 8 Α. That's right. 9 And can you describe to me where 0. these, you know, 20 -- so what is 27 pointing to? 10 11 Α. Twenty-seven is the point number 12 that you go to the table, reference table, and then 27 in that middle second column from the left 13 is the longitude and latitude coordinate for that 14 15 point location and same for the other corners of 16 that rectangle for 28 --17 Q. Right. --29 and 30. 18 Α. 19 Q. So if we go back and look at that 20 rectangle -- and, for the record, the rectangle is on the south --21 22 MR. NISHIOKA: Sorry. BY MS. GALE: 23 24 For the record -- I'll describe it Q.

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Page 79 1 for the record. It's on the south -- it's the 2 southeastern excavation and this is simply to 3 identify where these points are located, not to in 4 any way expand any scope. One more time. 5 MR. NISHIOKA: One more time? 6 To the right. MS. GALE: 7 MR. NISHIOKA: Okay. 8 MS. GALE: One more. You have to 9 get over here. There we go. MR. NISHIOKA: I'll double click it. 10 11 Okay. 12 BY MS. GALE: So the coordinates in -- the 13 Q. excavation coordinates they match up to each of 14 15 these points, right? 16 Α. That's correct. And these points are -- these 17 Q. coordinates are based upon what? 18 19 Α. Their longitude and latitude 20 locations. And where did you put in these 21 Q. coordinates -- what software did you use? 22 23 This is from our AutoCAD software Α. 24 where those coordinates originated from.

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Page 80 Okay. All right. 1 Q. Great. We can 2 get off of that. Dr. Ebihara, I want to flip back 3 4 to 204-38, which is the second tab in your binder. 5 Are you there? 6 Yes. Α. 7 Dr. Ebihara, can you describe Q. Okay. for me where the northeast excavation is? 8 9 Yes, it's located within Site 3 Α. along the north boundary on the east side and it's 10 labeled northeast excavation and it is also marked 11 12 with the diagonal cross hatch dash lines. And it --13 Q. 14 Α. It looks like it is three rectangles 15 linked together. 16 Q. And in looking at this map, is it in 17 the correct location? 18 Α. Yes. 19 Q. How do you know that? 20 Because it's -- it was included in Α. the plans that were sent to U.S. EPA for approval 21 22 and this looks consistent with the base map in the AutoCAD files that I provided. 23 24 And, to your recollection, what Q.

Page 81 1 did -- what work did you have to do in this area 2 specifically? 3 In this area, soils were excavated Α. 4 to about four foot depth and removed from the site 5 because of the presence of asbestos-containing 6 material. And there weren't any utilities in 7 0. this area, right? Well, I guess --8 There are a couple utilities that 9 Α. were abandoned, but that wasn't the driving force 10 11 for the removal action. 12 What was the driving force? Q. 13 Α. The presence of asbestos material. Okay. And now I want to flip 14 ο. Okay. 15 back to 2 -- so now we're going to go to 213G, 16 which is the last tab in your binder. Are you 17 there? (Document marked as Complainant 18 Exhibit No. 213-1834 for 19 20 identification.) BY THE WITNESS: 21 22 Α. Yes. BY MS. GALE: 23 24 What is this? Q. Okay.

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Page 82 1 This is a technical memorandum by Α. 2 AECOM authored by me and Matt Pyrus regarding 3 sample results from Site 3 to the Site 3 ramp. 4 MS. O'LAUGHLIN: I'm sorry. 213G, 5 do you have a more specific reference than 213G? 6 MS. GALE: Sure. 213-1834. 7 MS. O'LAUGHLIN: Thank you. MS. GALE: It's -- I'll be 8 9 discussing 213-1834 through -- the whole report is 213-1852. 10 11 MS. O'LAUGHLIN: Thank you. 12 BY MS. GALE: 13 Q. Okay. I believe you said the ramp. Can you describe that location, generally 14 15 speaking? 16 Α. Within Site 3, it's the -- it's the 17 northwestern corner that follows more of the northern boundary from that -- from that 18 19 northeastern corner across to the north. 20 MR. GRANT: I'm going to object on the basis of relevance. It's my understanding the 21 ramp area is not at all included. 22 23 HEARING OFFICER HALLORAN: Can you 24 speak up? I'm sorry.

Page 83 1 MR. GRANT: Yes, the ramp area that 2 they're referring to is not included in the area 3 of liability found by the Board. HEARING OFFICER HALLORAN: Ms. Gale? 4 5 MS. GALE: Again, this goes back to 6 our laying foundation for rebuttal of --7 HEARING OFFICER HALLORAN: I think it's the same as far as they're laying out the 8 9 north side of Greenwood. So you may proceed. 10 MS. GALE: Thank you. 11 HEARING OFFICER HALLORAN: Thank 12 you. Overruled. BY MS. GALE: 13 Okie dokie. Dr. Ebihara, so let's 14 ο. 15 flip to Exhibit -- Page 213-1837 and this is a 16 figure -- are you there? 17 (Document marked as Complainant Exhibit No. 213-1837 for 18 19 identification.) 20 BY THE WITNESS: 21 Α. Yes. BY MS. GALE: 22 23 Okay. Great. Dr. Ebihara, so I 0. 24 think looking at 213-1837, can you tell me where

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Page 84 1 you see the phrase site ramp on here? 2 Α. The site ramp is located in labels 3 of the sample locations that are positioned at a diagonal for each of the sample locations that are 4 5 summarized in this report. 6 HEARING OFFICER HALLORAN: Can you 7 speak up, please, Doctor? 8 THE WITNESS: Yes, sure. BY THE WITNESS: 9 Site ramp followed by a number is 10 Α. 11 what denotes the sample locations located 12 throughout the sample area of the slope in that northwestern corner of the site. 13 BY MS. GALE: 14 15 Okay. And, Dr. Ebihara, to your ο. 16 recollection, did you perform -- you said sample 17 So sampling was performed here? location. 18 Α. Yes. 19 Q. And did you find ACM in this area? 20 Yes, in two of the samples. Α. 21 MR. GRANT: I didn't see. I don't 22 see site ramp referred to when you say site ramp. 23 I mean, you know --24 MS. GALE: Right here.

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Page 85 1 MR. GRANT: I know where it is. 2 MS. GALE: Right, site ramp. 3 MR. GRANT: Aqain --4 MS. GALE: Yes. 5 MR. GRANT: -- it's very hard to 6 read. 7 MS. GALE: Okay. BY MS. GALE: 8 I believe you said you found 9 0. Okay. asbestos-containing materials in two locations, 10 11 what did you do when you found the material? 12 The soil associated with site ramp Α. 13 sample number 6 was excavated and then a second 14 sample was obtained to verify that that was no 15 longer detected, asbestos was no longer detected, 16 and then in the site ramp sample 10 the required two feet of soil cover was placed over that area. 17 Okay. And this is Exhibit 213. 18 Q. So 19 this was actually -- I guess I'll ask it this way. 20 Dr. Ebihara, where is this report in all of your reports, in what big report 21 22 is it a part of? 23 It's part of the final report for Α. 24 the southwestern sites area.

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Page 86 1 MS. GALE: Give me a minute. 2 BY MS. GALE: 3 Dr. Ebihara, looking back at the map Q. on Exhibit 2 --4 5 MR. GRANT: The same exhibit. 6 MS. GALE: Yes. Let me finish my 7 sentence. BY MS. GALE: 8 9 213-1837. And you said it was on 0. the northeast corner of Site 3. 10 11 Α. Northwestern. 12 Q. I'm sorry. You're right. Northwest 13 corner. Engineers, man. 14 So, to your knowledge, is this 15 part of Site 0393? 16 Α. Yes. Okay. And when did this work occur? 17 Q. 18 It was sampling work that was Α. conducted in 2016. 19 20 And so in 2016, it was after the 0. hearing, right? 21 22 MR. GRANT: You're reading now? BY MS. GALE: 23 24 So it occurred in 2016? Q.

Page 87 1 September of 2016 is when the sample Α. 2 was conducted. 3 Q. Very good. 4 MS. GALE: I have nothing further. 5 Thank you. 6 HEARING OFFICER HALLORAN: Thank 7 Do you want to take a 10, 12-minute break you. I'm seeing the most important guy in the 8 now? 9 room say yes. Ten, 12 minutes. We're off the record. 10 11 (Whereupon, a break was taken 12 after which the following 13 proceedings were had.) HEARING OFFICER HALLORAN: All 14 15 right. We're back on the transcript. 16 Mr. Grant, cross of Dr. Ebihara. 17 You may proceed. ΕΧΑΜΙΝΑΤΙΟΝ 18 CROSS BY MR. GRANT: 19 20 Dr. Ebihara, you prepared the cost 0. summary for Sites 3 and 6 for Mr. Dorgan, didn't 21 22 you? 23 Α. Yes. 24 And was that in April of 2017? Q.

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Page 88 They were -- there were two versions 1 Α. 2 of it. What exhibit number is it? 3 Q. You're looking at their exhibits. Was it in 2017, do you remember or do you want to 4 take a look? 5 6 February 15th, 2018. Α. 7 Q. 2018 was your final, but when you started putting together the --8 9 I think I remember October 2017 --Α. 10 0. 2017? 11 Α. -- was the first version. 12 Okay. It was after the Board issued Q. 13 it's December 15th, 2016, order, correct? That's correct. 14 Α. 15 And did you read the order? Q. 16 Α. Yes. 17 Q. Okay. Did you read the order before you prepared the report for Mr. Dorgan? 18 19 Α. Yes. 20 And you prepared your report by 0. reviewing invoices going back to 2007, right? 21 22 That's correct. Α. 23 Okay. About ten years before you 0. 24 sat down to -- to come up with the cost for Sites

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	Page 8	9
1	3 and 6?	
2	A. That's correct.	
3	Q. Okay. Let's go to Exhibit 204 Page	
4	47. You're not going to find it conveniently in	
5	that binder unfortunately. We're going to have to	
б	go to the big white binders that are over to your	
7	right. Do you want me to help assist in finding	
8	it?	
9	(Document marked as Complainant	
10	Exhibit No. 204-47 for	
11	identification.)	
12	BY THE WITNESS:	
13	A. I see it.	
14	BY MR. GRANT:	
15	Q. Do you need help?	
16	A. The cover letter for my	
17	Q. Yes, but I have a lot more that's in	
18	the expert report. It's in the binder. It begins	
19	with 047.	
20	MS. VAN WIE: You said 47, 204-47?	
21	MR. GRANT: Yeah, but I've got I	
22	need Exhibit 204 in our binder. I have	
23	Kristen, I have the witness' book over here. Did	
24	they get moved?	

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Page 90 1 MS. GALE: What? 2 MR. GRANT: The witness exhibits 3 binders? 4 MS. GALE: Not by us. They weren't 5 there. 6 HEARING OFFICER HALLORAN: There are 7 some up here. MS. BRICE: Got it. 8 BY MR. GRANT: 9 10 Q. Do you have it? Dr. Ebihara, do you 11 have it? 12 Α. I do. 13 Okay. And this is the beginning of Q. the same -- so this is the date of your report to 14 15 Mr. Dorgan, correct, February 18th -- or February 16 15th, 2018? 17 Α. Yes. Take a look at the summaries Exhibit 18 Q. 19 204 Page 61. (Document marked as Complainant 20 21 Exhibit No. 204-61 for 22 identification.) 23 BY THE WITNESS: 24 Α. Yes, I'm there.

Page 91 1 BY MR. GRANT: 2 Q. And, in general and summarizing, 3 these are periods of time from approximately six-month periods that you reviewed or that you 4 5 mentioned in this narrative description summary? 6 Α. Yes. 7 Okay. And you reviewed all the Q. invoices from 2007 and you made the allocations? 8 9 MS. GALE: Objection. Mischaracterization -- allocation as to between 10 11 IDOT and --12 MR. GRANT: No. 13 MS. GALE: Okay. MR. GRANT: To Sites 3 and 6. 14 15 MS. GALE: Very good. 16 BY MR. GRANT: 17 And in the first ten summaries that 0. you have there listed in the section the cost for 18 19 Sites 3 -- or 4, 5 and 6 were all lumped together, 20 correct? 4, 5 and 6? 21 Α. 22 Q. Yes, they were lumped together in the invoices? 23 24 Α. I believe it was Site 3 separately

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Page 92 1 and then Sites 4, 5 and 6. 2 Q. Okay. So the costs would all be listed for Sites 4, 5, and 6 and you guys split 3 that model between 4, 5 and 6, correct? 4 5 That's correct. Α. MS. GALE: Objection as to 6 7 relevance. The costs have been stipulated to. MR. GRANT: Yeah, I know. 8 9 MS. GALE: Okay. 10 MR. GRANT: How they came up with 11 the cost I think is relevant. 12 MS. GALE: Yes, but the stipulation 13 was that you're not disputing how they came up with the costs. 14 15 MR. GRANT: This is -- we're 16 cross-examining your witness and you provided the 17 costs to Mr. Dorgan and there is a huge difference 18 of opinion as to what the costs allocable to IDOT 19 are, number one. 20 MS. GALE: Okay. MR. GRANT: Number two, the fact 21 that you and I have stipulated to costs does not 22 23 bind the Pollution Control Board. It can make a 24 decision differently. Whether they decide to or

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Page 93 not, I don't know, but it is an agreement between 1 the two of us. It doesn't bind the finder of fact 2 3 and then, second, I think it adds a lot of color 4 to the -- to making the decision as to what the 5 appropriate costs are to find out how they were arrived at. Plus, this is all tied in with 6 7 Mr. Dorgan's testimony that is going to come later on as to what the cost allocation should 8 9 be. MS. GALE: Right. And to your 10 11 first end about Mr. Dorgan, Mr. Dorgan is the 12 expert making the allocation between IDOT and 13 JM. Dr. Ebihara has no opinion -doesn't have an opinion on that whatsoever. 14 15 So I quess our objection to relevance is why is it relevant -- or it isn't relevant since 16 17 we have already stipulated to it. 18 MR. GRANT: He relied entirely on 19 the -- on both Mr. Peterson and Dr. Ebihara's 20 figures in coming up with his figures. He has a firm figure and that's what he relied on in coming 21 up with it. 22 23 MS. GALE: He relied on the total 24 amount that Dr. Ebihara came up with, but he

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Page 94 1 didn't rely upon --2 MR. GRANT: He didn't rely on the 3 method that he came up with? For example, he was attributing costs for Sites 4 and 5. 4 5 MS. GALE: Okay. 6 Objection HEARING OFFICER HALLORAN: 7 overruled. You may proceed and -- and you can redirect him. 8 9 MS. GALE: Thank you. 10 HEARING OFFICER HALLORAN: Thank 11 you, Ms. Gale. 12 MR. GRANT: Okay. BY MR. GRANT: 13 I think I have a pending question, 14 0. 15 but I can't remember. 16 I think you agreed that sites 17 for an extensive period of time, which I've represented is the first ten summaries in this 18 19 document the cost for 4, 5 and 6 were lumped 20 together, correct, in the invoices? In the invoices, but not in the 21 Α. 22 summary. 23 Correct, yeah. 0. 24 Because the costs for Sites 4 and 5 Α.

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Page 95 were not included in the summary. 1 2 Q. And looking at the summaries with 3 the exception of 1 period, which is between December 29th, 2007, and June 27th, 2008, I 4 5 believe that's the period for the work, not the invoices, that with -- with the exception of that 6 one you allocated the costs for Site 6 as 50/50 7 with Sites 4 and Sites 5, correct? 8 9 Α. That's correct. Okay. Now, there are three -- these 10 0. 11 are all part of the southwest sites Superfund 12 sites. 13 There are three sites, why did you choose one-third instead of one-half? 14 15 Because the Site 4, 5 is a grouped Α. 16 site. It's one utility corridor and it was actually quite -- it's of similar size to Site 6, 17 18 but Site 6 actually included much more complex utility agreements and work. So I picked a 19 20 conservative number compared to what I thought would actually be representative because Site 6 21 took more of our effort proportionally than Sites 22 4 and 5 combined, but because they're about equal 23 linear length of utility corridor, that 50 percent 24

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Page 96 1 was considered to be representative, but also 2 conservative. I think it actually took more than 3 50 percent -- Site 6 took actually more than 50 4 percent of our proportional effort during those 5 time periods. 6 Sites 4 and 5 are not contiguous, 0. 7 right? 8 Α. They are. 9 Are they adjacent to --0. It's labeled Site 4-5 and it's --10 Α. there is not really a distinct Site 4 or a Site 5. 11 12 It's Site 4/5. 13 Q. Aren't there --14 Α. It's a contiguous unit. 15 I'm sorry. Aren't there several Q. 16 hundred feet between Site 4 and Site 5? 17 No, Site 4/5 is one site. Site 4/5Α. is one site. 18 19 0. I understand it's being treated as 20 one, but is it one contiguous piece of property? 21 Α. Yes. In the second summary where you 22 Q. reduce the amount allocated I think to 65 percent 23 24 to Sites 4 and 5 and the balance of the site to

Page 97 1 Site 6 --2 HEARING OFFICER HALLORAN: Can you 3 keep your voice up, Mr. Grant? Thank you. Sorry. 4 MR. GRANT: I read the transcript. 5 I should have -- from the previous hearing. I 6 know that was an issue. 7 BY MR. GRANT: It appears that was based on -- and 8 Q. I'm talking about this is 204-61 second paragraph 9 for the period December 29th, 2007, if you're 10 11 there. It appears that that was based on an 12 objective criteria based on the number of 13 drillings, do you agree? 14 Α. Yes. 15 Q. I'm sorry. You have to give an 16 oral --17 Α. Sample -- sample grid sampled, 18 correct. 19 0. Was that the only period that there was some sort of objective criteria to 20 differentiate Sites 4 and 5 and 6? 21 Because it was field investigation 22 Α. 23 work plan oriented, it seemed appropriate to 24 proportion it that way --

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Page 98 1 Q. Sure. 2 Α. -- since the number of samples 3 planned for that period. 4 So there was actually an objective Q. 5 criteria --6 Α. Yes. 7 -- take a number of samples at one Q. spot and a number of samples at another spot, 8 correct? 9 Whereas like the other 10 Α. Right. 11 periods the utility work was the driving effort, 12 the utility agreement work was the --13 Q. Was that the only period when there was that sort of an objective criteria? 14 In other 15 words, numbers of samples, numbers of tests, that sort of thing? 16 17 During -- during -- during the heavy Α. construction period, which significantly more 18 19 costs and effort were expended I believe that was 20 based on sampling. Would that be after 2012 to 2013 in 21 Q. that period when that began? 22 23 Α. Yes. 24 And by that time, AECOM was billing Q.

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Page 99 1 and they actually did separate --2 Α. Yes. 3 Q. -- the costs out by site, correct? 4 Α. Yes. 5 MS. BRICE: Tab, could you speak up 6 a bit. I think they're having trouble --7 THE COURT REPORTER: And one at a 8 time with the overlapping. 9 HEARING OFFICER HALLORAN: One at a 10 time guys. Thank you. 11 BY MR. GRANT: 12 Do you know how many invoices this Q. 13 period covered? I don't -- I don't recall in total. 14 Α. 15 Q. I'll tell you what. I'll take you 16 there. If you can go to 204-49. 17 Α. It's represented in Table 1? 18 Mm-hmm. Q. 19 Α. Do you want me to count them? 20 I sort of already have and, frankly, 0. this is a document that is already read, but it 21 goes between those three sheets, I'm going to 22 represent that there were 45 invoices that 23 24 separated the costs out for 4, 5 and 6 at 45 -- or

Page 100 1 at 50/50? 2 MS. GALE: I would only object. Ι 3 think you mean four sheets. MR. GRANT: Is it four sheets? 4 5 MS. GALE: Yes. 6 BY MR. GRANT: 7 Q. So if you want to count them, I don't know if it's necessary. 8 9 Forty-five total? Α. Total invoices from I think there 10 0. 11 were LFR or Arcadis invoices that are listed here 12 where you allocated the work 50 percent for Sites 13 4 and 5 and 50 percent for Site 6. 14 Yeah, I would have gone through the Α. 15 details to --16 ο. No, I understand and it's hard to 17 read. So I will just represent that there were certainly -- there were a number of invoices where 18 19 they were split. I'm going to take you to Exhibit 20 229, which is not in that binder by the way. 229G 21 G. 22 MS. VAN WIE: I'm sorry. What was 23 that? 24 MR. GRANT: 229G.

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Page 101 1 MS. VAN WIE: 229. 2 MS. TIPSORD: Yes, it's a different 3 white binder. 4 (Document marked as Complainant 5 Exhibit No. 229G for 6 identification.) 7 BY MR. GRANT: Do you have that? 8 Q. I don't have it. 9 Α. Sorry. I thought we put a set of --10 Q. 11 HEARING OFFICER HALLORAN: I'm 12 sorry. 13 MR. GRANT: I thought we put a set of binders for the witness, but apparently not. 14 15 We will in the afternoon. 16 MS. TIPSORD: Here -- I think 17 they're up here. 18 MR. GRANT: Those, I think, are all 19 for the Hearing Officer. 20 HEARING OFFICER HALLORAN: I have all mine over here. 21 22 MR. GRANT: We'll make sure we get a 23 set up there. 24 MS. GALE: Do you need the exhibits?

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Page 102 1 He just has the deposition. 2 MR. GRANT: Yeah, it's the exhibits 3 to the deposition. 4 HEARING OFFICER HALLORAN: Steven, 5 we're off the transcript, I guess, until we get 6 situated here. Let me know. 7 (Whereupon, a discussion was had off the record.) 8 9 HEARING OFFICER HALLORAN: Back on. BY MR. GRANT: 10 11 Q. If you can turn to 229G-208. 12 I'm sorry? MS. GALE: 13 MR. GRANT: 208. 14 MS. GALE: Thank you. 15 MR. GRANT: It's in the exhibits. 16 MS. GALE: Got it. Thank you. 17 (Document marked as Complainant Exhibit No. 229G-208 for 18 19 identification.) 20 BY MR. GRANT: Page 208 is a copy of an invoice 21 Q. that was used at your deposition in this case, 22 23 Dr. Ebihara. 24 Is this the sort of invoice that

Page 103 1 you reviewed? 2 Α. Yes. 3 Q. Okay. And down at the bottom --4 It's one page -- one page of it. Α. 5 Okay. And down at the bottom line Q. 6 26 where it says 4, 5 and 6 were -- that's what 7 you would have used in your calculation for the 8 report to Mr. Dorgan? Only the current invoice columns. 9 Α. Not actual cost? 10 0. 11 Α. Not billed to date. That's a 12 summary --13 Okay. Q. -- across multiple invoices. 14 Α. So the 15 only invoice numbers that I would have used would have been the current invoice and not --16 17 ο. Here was what 13 -- \$1,343.50, 18 correct? 19 Α. That's correct. 20 0. Okay. So you would have split that number in half and reported half of the number --21 22 half of that figure for work that was done against 23 Site 6, right? 24 Objection. MS. GALE:

Page 104 1 HEARING OFFICER HALLORAN: Ms. Gale? 2 MS. GALE: Objection to the extent 3 of generalization. I believe earlier he testified 4 that depending what was done he either did it -split it 50/50 or he looked at field 5 6 investigation. 7 HEARING OFFICER HALLORAN: Mr. Grant? 8 9 MR. GRANT: Yeah, he said that, but I just asked him the question about whether he 10 11 used the number on this invoice and split it 50/50. 12 13 HEARING OFFICER HALLORAN: He can answer if he's able. Overruled. 14 15 BY THE WITNESS: 16 Α. I'd have to -- I'd have to refer to 17 the narrative. BY MR. GRANT: 18 19 Q. Refer to what? 20 I'd have to refer to the narrative I Α. provided to reflect the basis. 21 22 There was no suggestion that Q. Okay. IDOT was involved in Sites 4 and 5, is that 23 24 correct?

Page 105 1 MS. GALE: Again, objection to the 2 extent that he is asked to give an opinion on IDOT's involvement. His testimony here and what 3 he did was simply calculate the total costs at the 4 He made no assessment or allocation or 5 sites. 6 opinion about Johns Manville -- or excuse me IDOT. 7 This is based on the MR. GRANT: nature of the case. Mr. -- Dr. Ebihara was out 8 there for a long time and he was -- testified at 9 the 2016 trial in this case. So I think the 10 11 question is there is no allegation in this case or 12 otherwise that IDOT was involved at all in Sites 4 or 5, isn't that correct? 13 HEARING OFFICER HALLORAN: He can 14 15 answer if he's able. Overruled. 16 MS. GALE: Okay. 17 BY THE WITNESS: 18 Can you repeat the question, please? Α. BY MR. GRANT: 19 20 Sure. Are you aware of any 0. involvement by IDOT in Sites 4 -- 4 or 5? 21 22 I'm not. Α. 23 Weren't Sites 4 and 5 much more 0. 24 contaminated than Site 6?

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Page 106 1 MS. GALE: Objection. Relevance. 2 HEARING OFFICER HALLORAN: 3 Overruled. BY THE WITNESS: 4 5 There were removal actions --Α. 6 complete removal actions completed for both. 7 BY MR. GRANT: Let me take you to Exhibit 63, Page 8 Q. 15 and that's a different binder that is -- the 9 white binder. If you can find 63 and go to Page 10 11 15. 12 (Document marked as Complainant Exhibit No. 63-15 for 13 identification.) 14 15 HEARING OFFICER HALLORAN: 16 Sixty-three and what page? 17 MR. GRANT: Fifteen. 18 HEARING OFFICER HALLORAN: Thank 19 you. 20 BY THE WITNESS: 21 Α. I'm on Page 15. BY MR. GRANT: 22 23 Okay. Let me join you. Okay. 0. Now, 24 Exhibit 63 is a report that was prepared by

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Page 107 1 Arcadis and submitted to Illinois EPA, correct? 2 Α. To the -- submitted to the U.S. EPA. 3 Q. To the U.S. EPA, yes. 4 Α. That's correct. 5 And on the inside, I'll take you Q. 6 back to the inside of the front cover of it, it 7 has your name, do you see that, and your signature? 8 9 Α. Yes. So were you involved in the 10 0. 11 preparation of this report? 12 Α. Yes. 13 Now, let me take you back to Page Q. Under -- on Page 15, under Site 3 soil 14 15. 15 sampling results reading down the first paragraph, 16 do you see where it says, "Only two of eight pits 17 completed near the former borings from the ELM study were positive for visually ACM," do you see 18 19 that? 20 On which paragraph again? Α. This is in the second paragraph 21 Q. under -- with the heading 2.2.2 Site 3 sampling 22 23 results? 24 Α. Okay.

Page 108 1 And the first sentence second half Q. 2 says, "Only two of eight test pits completed near 3 the former borings were positive for visually ACM," do you see that? 4 5 Yes. Α. If you can turn to Page 22. 6 0. Okay. 7 Under heading 2.4.2 Site 6 soil sampling results, do you see that? 8 9 Α. Yes. Okay. At the second half of the 10 0. 11 first paragraph, do you see where it says, "28 12 of 60" -- "of 88 of the sample locations" -- I'm 13 sorry. Backing up a little bit. "ACM either visibly or detected 14 15 by laboratory analysis was present in soil at 28 16 of the 88 sample locations," do you see that? 17 Α. Yes. 18 If you can back up to Page 18 of the Q. 19 same report. 20 MS. GALE: Sorry. What page? 21 MR. GRANT: Eighteen. 22 MS. GALE: Thank you. BY THE WITNESS: 23 24 Α. Sixty-three, 18. Page 63, 18.

Page 109 1 BY MR. GRANT: 2 Q. Yes, please. Paragraph down at the bottom under Site 4, 5 soil sampling results, 3 4 second half of the paragraph, do you see the 5 sentence that all but 4 of the 59 sampling -sampling rows contained ACM in soil, do you see 6 7 that? 8 Α. Yes. 9 Okay. And where it says all but, 0. but four suggests to me that -- that states that 10 11 55 of the sample results were positive for ACM in that sampling, correct? 12 13 Α. That's correct. If you can take a look at the same 14 0. 15 exhibit, Page 27. First paragraph scope of ACM 16 affected soil there is three bullet points just below it where it reports Site 3 -- I'm sorry. Up 17 18 in the first paragraph estimated volume of soil 19 affected by ACM and then the bullet points below 20 Site 3 11,400 to 15,000 -- 15,200 cubic yards of surface debris for Site 3 down below Site 4/5, 21 16,700 to 25,000 cubic yards of ACM affected soil, 22 Site 6, 3,200 to 7,500 cubic yards of ACM infected 23 24 soil?

Page 110 1 Α. Yes. 2 Q. Based on these figures, wasn't 4/53 much more contaminated with ACM than Site 6? In terms of volume of affected soil, 4 Α. 5 yes, but that's not necessarily proportional to 6 the effort expended for the preparation of work 7 plans. But it was much more contaminated, 8 Q. 9 correct? 10 Α. Yes. 11 Q. Now, the Site 6 costs that you 12 reported to Mr. Dorgan included all Site 6 costs, 13 correct? 14 Α. That's correct. 15 ο. Okay. And Site 6 goes significantly further east than the area that IDOT was involved, 16 17 isn't that correct? I don't -- I don't know what the 18 Α. 19 specific area --20 You don't know what --0. Specific area --21 Α. 22 -- area Site 6 is? Q. 23 If you're referring to, like, the Α. 24 sample locations 01 to 04.

Page 111 1 I'm talking --Q. 2 HEARING OFFICER HALLORAN: One at a 3 time, gentlemen, please. Thank you. BY MR. GRANT: 4 5 I'm talking about the geographical Q. 6 designation of Site 6. Site 6 is a designed area, 7 correct, or a designated area, correct? 8 Α. Correct. We had sample grids from 9 01 to 60 for the entirety of the south side of Site 6. 10 11 0. Okay. So -- well, I mean, based on your personal knowledge of the site, doesn't Site 12 13 6 extend to the east almost to the power plant? 14 Α. It's on the north side of the power 15 plant. 16 Q. Mm-hmm. Your estimates for Site 6 also include costs for the north side of Greenwood 17 18 Avenue, correct? 19 Α. The north shoulder of Greenwood 20 Avenue. The north side of Greenwood Avenue 21 Q. within Site 6? 22 23 Α. Yes. 24 Those costs are included in the Q.

Page 112 1 costs that you prepared for Mr. Dorgan, correct? 2 Α. Yes. 3 Q. And the Site 3 costs that you prepared include all of Site 3 -- all of Site 3? 4 5 Α. That's correct. Okay. Are you aware that the Board 6 0. 7 order excluded IDOT from any liability from the north side of Greenwood Avenue? 8 9 I'm not -- I'm not aware. Α. Are you aware that -- that it held 10 0. 11 IDOT liable for only a very small portion of Site 12 3? 13 Α. I don't -- I don't know or I don't recall. 14 15 Are you aware -- are you familiar Q. 16 with the Nicor utility corridor in Site 3? 17 Α. Yes. 18 Okay. Where were the costs related ο. 19 to Nicor utility corridor included in the costs 20 you provided to Mr. Dorgan? The costs that I represented in my 21 Α. cost summary are the development of reports and 22 plans and submittals. So they don't necessarily 23 24 proportion to actual construction work that was

Page 113 1 performed for the engineering --2 Q. I understand. 3 Α. -- services provided to develop a 4 compliant work plan or report for the U.S. EPA. 5 And for all of Site 3, correct? Q. 6 Α. That's correct. 7 Q. Okay. Are there any other easements in the southwest site Superfund area that you're 8 aware of? And when I say other easements, let me 9 ask you, are you familiar with the -- the IDOT 10 11 right of way that is in Parcel 0393? 12 Α. Yes. 13 Okay. Are there any other easements Q. 14 besides that that you're aware of in the southwest 15 sites area? 16 Α. Yeah, there's part of an elevated 17 ramp that abuts the south end of Site 4/5. 18 Q. I'm sorry. What was it? 19 Α. Site 4/5 --20 0. Yeah. -- extends north from the elevated 21 Α. 22 ramp. 23 Elevated ramp. Okay. 0. 24 But I don't think it includes the Α.

Page 114 1 elevated ramp to my recollection. 2 Q. Are you aware that a Johns Manville 3 contractor or subcontractor brought soil to Site 3 that contained ACM sometime around 2016? 4 5 Α. Yes. Did you include costs for removal of 6 0. 7 that material in the costs provided to Mr. Dorgan? 8 Α. In my summary, I provide the 9 support -- any support that we may have provided for sampling to verify where the contamination was 10 11 and for the testing of the new material after all 12 of the impacted material was removed. So I 13 provided sampling support services, not actual field construction or materials. 14 15 Was the material that was brought in ο. 16 again in 2016 by a contractor or subcontractor, I 17 don't know by who, was that tested for the 18 presence of ACM? 19 Α. The replacement soil? 20 Not the replacement soil, the 0. Yes. soil that was actually dumped that had ACM 21 22 material in it. 23 We pretested the supply that was Α. 24 identified by the contractor and it did not

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Page 115 1 include ACM -- any positive ACM test results and 2 so it was pre-approved for placement. 3 Q. Okay. 4 Α. And then if that answers your 5 question. 6 I'm talking about subsequently 0. No. 7 determined that there was ACM in the soil that was brought in and deposited on Site 3, you're aware 8 of that incident? 9 10 Α. Yes. 11 0. Okay. Did you provide any testing 12 services for -- or related to that dumping or the removal of it? 13 I don't recall, but that would --14 Α. 15 that's within the type of work that we had been 16 doing in support of the project. 17 Okay. And, again, would that cost Q. 18 have been reported to Mr. Dorgan, do you know? If 19 you don't know --20 If it was in -- I don't recall the Α. time period of occurrence if it was in 2016. If 21 22 we provided support during the time period, it 23 would have been included in the invoices up to the 24 endpoints that I reported in my -- in my costs

Page 116 summary. So up until September 8th, 2017, I would 1 2 have included. 3 Q. I'm going to take you back to the 4 easy-to-use binder provided by Johns Manville and 5 I want to look at Exhibit 229, which is I don't know -- I'll wait until you're there. 6 7 Is -- am I correct in Okav. assuming I think you testified this is the CAD map 8 that you provided to AECOM? 9 I work for AECOM. 10 Α. 11 0. I'm sorry. That you provided to Weaver, to Mr. Dorgan, for his report? Or if I'm 12 13 saying that wrong, please correct me. 14 Α. It's a screenshot that looks typical 15 of an AutoCAD screen page and it has some of the 16 base map information that I would have provided to 17 Mr. Dorgan electronically. 18 Now, I can't recall. I wanted to Q. 19 say was this map created in 2007? I'm not trying 20 to misrepresent it. That's what I remember. The original -- the original base 21 Α. map for this portion of the site, is that your 22 23 question? 24 What I'm curious about is the Q.

Page 117 1 document that is represented here. So if this 2 was -- is a screenshot of the base map that was 3 created, was it 2007 when this was done, this work 4 was done? 5 MS. GALE: My only objection is to 6 Are you asking whether the base map was vaque. 7 created in 2007 or whether this PDF was created in 2007? 8 9 MR. GRANT: No. Yeah, my question 10 is about the base map. 11 MS. GALE: Okay. 12 MR. GRANT: And about creating 13 it with CAD. You know, I think that was 14 misrepresented. It was a CAD, screenshot of a 15 CAD --16 MS. GALE: Well, again --17 MR. GRANT: -- diagram. 18 MS. GALE: The objection is to 19 mischaracterization. This is -- this is meant to 20 be merely a screenshot of what it looks like. It's not meant to demonstrate what it looked like 21 22 in 2007. 23 BY MR. GRANT: 24 Q. When was it created, I guess, is the

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1	first question?
2	MS. GALE: The PDF or the AutoCAD?
3	MR. GRANT: The AutoCAD.
4	BY THE WITNESS:
5	A. There is portions of the base map
6	that we have used throughout the project. So when
7	I first became involved with JM, there's elements
8	of the road and the map and the boundaries, the
9	property boundaries, that were already in place
10	and in our use for Johns Manville before 2007.
11	BY MR. GRANT:
12	Q. Okay. So are we going to call this
13	a map or a CAD or information? Does this just
14	represent information that was generated in 2007?
15	I don't even know if it was 2007.
16	MS. GALE: Again, I would just
17	object as to misrepresentation. The purpose of
18	229F-377 was to be more of a demonstrative of what
19	an AutoCAD looks like because it is a software
20	program and we couldn't bring the whole program
21	into the hearing.
22	HEARING OFFICER HALLORAN:
23	Mr. Grant?
24	MR. GRANT: What I'm curious is that

Page 119 1 Dr. Ebihara testified, I think, that the Weaver 2 map, which is Exhibit 204-38, was consistent 3 with -- with the screenshot. 4 MS. GALE: I would object. Ιt 5 mischaracterizes his testimony. He did not 6 testify it was consistent with the screenshot. 7 HEARING OFFICER HALLORAN: Can you 8 rephrase, Mr. Grant, or are you doing the best you 9 I think it's clear enough in the record with can? everybody testifying thus far regarding Exhibit 10 11 229. 12 I understand. MR. GRANT: Okay. Т 13 am just wondering 229 and the screenshot 229 and 204-38 are different and, I mean, I heard 14 15 Dr. Ebihara say that the Weaver Booze Map was 16 consistent with the -- with the CAD drawing and 17 they're different. There is different details on 18 them. So that's kind of where I was going with 19 them. 20 HEARING OFFICER HALLORAN: Is that a question out there for the doctor? 21 22 MR. GRANT: Not really. BY MR. GRANT: 23 24 Let's -- let me try to simplify it a Q.

Page 120 1 little bit. Look at the Weaver map which is 2 204-38, please. 3 And was this created with the 4 information that is represented on 229 using the information that was contained on 229? 5 6 There are differences. Α. 7 Do you not know if it was created Q. using the information that is represented on 229? 8 Do I --9 Α. The information that's represented 10 0. 11 on 229, is it either a map or a screenshot or --It doesn't -- there is some 12 Α. differences between the screenshot and what is 13 involved in the drawing. 14 15 Was the same AutoCAD information ο. 16 used on both? 17 I --Α. 18 If you don't know -ο. 19 Α. I stand -- I stand by the 20 information I provided to Mr. Dorgan that has base map features that I'm familiar with that was used 21 in the generation of all the EPA reports. 22 23 0. Is --24 I can't stand behind the screenshot Α.

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Page 121 1 information because I don't know exactly -- it --2 it looks -- has the appearance of the working 3 interface for AutoCAD and it has some of the site features that is included for Site 3. 4 5 Okay. All right. I was a little Q. 6 bit confused about it, too. So you supplied 7 information to Mr. Dorgan from which he created his -- his map of the site? 8 9 His figures, yes. Α. 10 Q. His figures. Okay. 11 MR. GRANT: I think that's all I've 12 got. MS. O'LAUGHLIN: Wait. Never mind. 13 14 MR. GRANT: Wait. Sorry. I was 15 kidding. 16 BY MR. GRANT: 17 Q. Okay. Taking you back to the Weaver 18 Booze Map. 19 Α. Yes. 20 It indicates -- actually, if you 0. look at the top of the map for Site 3, do you 21 recognize the dimensions in Parcel 0393 in there? 22 23 Α. Yes. 24 And looking to -- to the next Q. Okay.

Page 122 1 Exhibit 229, that information is not contained in 2 the screenshot, correct? 3 Α. It does not appear to be. 4 (Document marked as Complainant Exhibit No. 229 for 5 6 identification.) 7 MR. GRANT: That's all I have. HEARING OFFICER HALLORAN: 8 Thank 9 you, Mr. Grant. Ms. Gale, redirect? 10 MS. GALE: Just a few. 11 REDIRECT EXAMINATION 12 BY MS. GALE: 13 We're going to stay on 204-38 versus Q. 229F-377 and, Dr. Ebihara, in this screenshot 14 15 which we're calling a screenshot, this is not --16 this PDF is not the AutoCAD, right? This piece of 17 paper is not the AutoCAD, right? 18 Α. No. 19 0. What is it? What is the AutoCAD? 20 Describe it for me. It's a computer software package 21 Α. that stores many different types of locational 22 23 data. 24 Right. And that includes layers, Q.

Page 123 1 right, you mentioned layers? 2 Α. Many layers. 3 Q. Many layers. Describe what those 4 layers are. 5 We -- we -- each layer is a set of Α. 6 information. One could be sample locations, the 7 next layer could be property boundaries, the next layer could be topographic information, the next 8 layer could be utility runs. 9 Right. And so as you're looking at 10 0. 11 this screenshot, this screenshot of the AutoCAD 12 doesn't show all of the layers, does it? 13 Α. No. 14 But when you gave -- what did Q. Okay. 15 you give -- when you gave your information to 16 Mr. Dorgan to create his figures, what did you 17 give him? 18 Α. I gave him many layers of 19 information about utilities, sample locations, site boundaries, parcel boundaries and utility --20 21 Q. You ---- corridors. 22 Α. 23 I'm sorry. Finish your sentence. 0. 24 All that information was provided. Α.

Page 124 1 So all of the -- all of the Q. 2 information, all of the layers were provided, 3 right? 4 Α. Mm-hmm. 5 Q. Very good. You were asked some 6 questions about Sites 4 and 5 versus Site 6 and I 7 want to go back to -- and you said about your evaluation in comparing the two early on and you 8 9 thought it was conservative, can you explain to me why you thought it was a conservative estimate to 10 11 do 50/50? 12 Α. Because sites -- a lot of our work 13 plan descriptions involved the plan for utilities and Site 4/5 for the most part involved one sewer 14 15 line north to south. 16 Q. Mm-hmm. 17 Whereas Site 6 included telephone Α. 18 utilities, electrical utilities, gas utilities and 19 was quite complex. 20 0. Okay. So a lot of the effort expended 21 Α. during the report preparation was to address those 22 23 elements. 24 And so the effort -- yeah, so the Q.

Page 125 1 effort expended was in proportion to -- I'll ask 2 you. 3 The effort expended, was it in proportion to the volume of ACM found in the site? 4 5 No, not necessarily. It was -- it Α. 6 was the effort to develop the plan so that the 7 removal action could be completed safely so that utility service wouldn't be interrupted or 8 appropriately closed and safe for workers to 9 perform the removal action. 10 11 0. Okay. And I think just as a 12 demonstrative, if you want to flip in your exhibit 13 binder to 67-542, which is Site 6, and I believe it's been described in this as a very complicated 14 15 and difficult figure, is this the complexity 16 you're talking about? 17 Α. Yes. 18 Very good. Q. 19 Α. So an interrupted utility service 20 would have caused disturbance and interruptions for a lot of different parties. So we took a lot 21 22 of time to make sure that those plans and agreements were going to be effective and 23 24 conducted before the removal action.

Page 126 1 Dr. Ebihara, you were asked some Q. 2 questions about ACM that was brought --3 unintentionally brought to the site as fill, do 4 you recall those questions? He just asked you 5 about fill brought in. 6 For Site 3. Α. 7 For Site 3, right. And if you were 0. to go back to those invoices about that -- that 8 work, would you be able to identify more clearly 9 whether that ACM was a part of your calculations 10 11 of cost analysis? 12 Yes, and to clarify, it wasn't fill. Α. 13 It was just three inches or less of topsoil. 14 Q. Okay. 15 So it was easy to remove and it Α. 16 didn't get mixed in or integrated with the actual clay barrier portion of the engineered cover. 17 18 Perfect. Thank you for that Q. clarification. 19 20 MS. GALE: Nothing further. HEARING OFFICER HALLORAN: 21 Thank 22 you. Mr. Grant, re-cross? 23 MR. GRANT: Yes, just real quickly. 24

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Page 127 RECROSS EXAMINATION 1 BY MR. GRANT: 2 3 Q. You were talking about -- talking about Site 6 and the utilities and specifically 4 5 with regard to 67-542. 6 How far does the clean corridor 7 for Site 6 extend? The only clean corridor required 8 Α. after the completion of Site 6 is the fiberoptic 9 corridor for AT&T. 10 11 Q. Okay. 12 MR. GRANT: That's all I have. 13 HEARING OFFICER HALLORAN: Thank you. All right. Thank you, Mr. -- Dr. Ebihara. 14 15 MS. GALE: Thank you, Dr. Ebihara. 16 HEARING OFFICER HALLORAN: Dr. 17 Ebihara, you may step down. I think I was remiss as far as the motion to exclude, sequester, the 18 19 witnesses. The witnesses are directed not to 20 discuss their testimony with other witnesses. All right. Next witness. 21 MS. GALE: Our next witness is via 22 23 Webex. So --24 HEARING OFFICER HALLORAN: Mr.

Page 128 1 Peterson. 2 MS. GALE: Correct. I'm going to 3 text him to get logged on. 4 HEARING OFFICER HALLORAN: We're off 5 the transcript. 6 (Whereupon, a break was taken 7 after which the following proceedings were had.) 8 9 HEARING OFFICER HALLORAN: Mr. 10 Peterson, if you can raise your right hand, the 11 court reporter will swear you in, please. You may 12 proceed, Ms. Gale. 13 MS. GALE: Thank you. 14 WHEREUPON: 15 DAVID MICHAEL PETERSON 16 called as a witness herein, having been first duly 17 sworn, deposeth and saith as follows: 18 DIRECT EXAMINATION BY MS. GALE: 19 20 Well, almost good afternoon, 0. Mr. Peterson. Welcome and as I just remind you as 21 the Hearing Officer said because we're on Webex, 22 23 let's both speak slowly and clearly. That's 24 difficult for me. I speak quickly but I will do

Page 129 1 my best to slow down and I will ask that you do 2 the same. So, Mr. Peterson, can you please state 3 your full name for the record? 4 Yes, my name is David Michael Α. 5 Peterson. 6 Thank you Mr. Peterson. What is 0. 7 your educational background? I have a bachelors in science in 8 Α. 9 chemical engineering from the University of Michigan. 10 11 0. And do you hold any professional 12 licenses? 13 Α. I do. I'm a licensed professional engineer in Illinois and several other states. 14 15 And where do you currently work? Q. 16 Α. I'm currently in Ohio. 17 I'm sorry. Who do you work for? Q. 18 Α. I am self-employed. I have been 19 self-employed for 20 years. 20 And what is the company name? 0. The company name is David M. 21 Α. 22 Peterson, PE, PC. And could you generally describe 23 0. 24 what you do for your -- your roles and

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1	responsibilities as part of your company?
2	A. Sure. I'm the president and
3	responsible charge engineer. My company practices
4	in soil and groundwater remediation, industrial
5	wastewater treatment, subsurface vapor intrusion
6	projects, stormwater compliance and other matters.
7	Q. Very good. Mr. Peterson, are you
8	familiar with the Johns Manville southwestern
9	sites in Waukegan, Illinois?
10	A. Yes, I am.
11	Q. And how are you familiar with it,
12	generally speaking?
13	A. Generally, I have been part of the
14	southwest sites project from the preparation of
15	the remedial action work plan reviewing it through
16	the execution of the project and preparation of
17	the construction completion report.
18	Q. And so when did you first get
19	involved, approximately what year?
20	A. For the southwest sites project, I
21	became involved approximately 2013 when the
22	remedial action work plan was being prepared.
23	Q. And what in 2013, what did you
24	start doing?

Page 131 1 AECOM prepared the remedial action Α. 2 work plan and I would review it for applicable --3 for construction purposes. 4 Okay. And then beyond that, what Q. 5 else did you do? You had bid packages, what were 6 the other purposes there? 7 Yeah, following the remedial action Α. work plan, I prepared bid specifications so that 8 we could get competitive pricing for the 9 completion of the project. I participated in the 10 11 bidding process, interviewing contractors, making a technical evaluation of the bid. I was also 12 13 onsite acting as the resident site engineer supervising the execution of the work when it was 14 15 performed and then I prepared a construction 16 completion report when the work was complete. 17 Okay. And when you were onsite, ο. what were some of your daily activities that you 18 did? 19 20 Α. So when I was onsite, I was responsible for project health and safety. 21 There 22 would be daily safety tailgate meetings. I was 23 responsible for overseeing the contractor's work, 24 supervising it, I was responsible for interfacing

Page 132 1 with regulatory personnel, the Army Corps of 2 Engineers was onsite on a daily basis. I was also 3 responsible for documenting the work that was 4 completed which included preparing daily progress 5 reports. It included taking site photographs and 6 just general overall management of the project. 7 And when I refer to Site 3 Q. Okay. and Site 6, do you know what I mean? 8 I do know what Site 3 and Site 6 9 Α. 10 are. 11 0. And the activities that you just 12 described, did you do those at Site 3 and Site 6? 13 Α. I did, yes. 14 And is your work at Sites 3 and 6 0. 15 still ongoing? 16 Α. It is from an operation and 17 maintenance perspective now that the remediation work has been completed. 18 And what is that -- what is that 19 0. 20 work, operation and maintenance work? So operation and maintenance 21 Α. includes inspection for erosion, for vegetation. 22 23 For Site 3, it's to make sure that the cap 24 integrity is -- is -- the cap is in good shape and

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Page 133 1 it includes inspecting the perimeter fencing, signage and just the overall health of those sites 2 3 from the ground level. 4 Q. Okay. And how long will that operation maintenance continue? 5 6 Operation and maintenance will Α. 7 continue for approximately 30 years. And I think you said a cap for Site 8 Q. 3, is there a cap at Site 6? 9 There is no cap for Site 6. 10 Α. There 11 is no cap because the asbestos was removed from 12 Site 6. All right. I think you said one of 13 Q. the roles was to do the bidding and the bidding --14 15 what was the bidding for that you discussed? 16 Α. Yeah, so the bidding was for the southwest sites project. It included Site 3, Site 17 4/5 and Site 6 as well as some remaining work in 18 19 the industrial canal. 20 For Site 3 and Site 6, the Site 3 work included construction of clean corridors 21 22 around the utilities and constructing the soil cap which included geotextile, sand, clay, topsoil and 23 24 vegetation. For Site 6 it also included

Page 134 1 construction of a clean utility corridor and 2 removal of asbestos and backfilling to grade. 3 Q. And who are you getting the bids from? 4 We solicited bids from four 5 Α. 6 contractors, including Campanella & Sons, Lake 7 County Grading, Denovo Group and Sevenson Environmental. 8 And those are all construction 9 0. companies? 10 They are construction remediation 11 Α. 12 Lake County Grading, Campanella & Sons companies. and Sevenson have all done work at the site 13 14 previously. 15 And how was one of those ο. 16 construction companies selected? 17 So I would supply the bid documents Α. 18 to Johns Manville from the procurement group. The 19 procurement group would send the bid documents to I was a technical reference for 20 the contractors. the contractors. So as they had questions or 21 22 wanted to make site visits, they would -- I would 23 facilitate the visits and answer the questions and 24 that's what I did during the bidding.

Page 135 1 When the bids were -- the bids 2 were received by Johns Manville, then I was 3 allowed to look at the bids and made a technical evaluation off the bids. We had bidders come in 4 and were interviewed and then I made technical 5 6 recommendations as to whether I thought the 7 bidders were qualified to complete the project. Johns Manville then made the decision as to who 8 to -- who to contract with for the work. 9 All right. 10 Q. 11 MS. GALE: Mr. Hearing Officer, can 12 I go off the record for a minute? I was so 13 focused on getting him on the Webex, I forgot to hand out the binders. 14 15 HEARING OFFICER HALLORAN: Yes. 16 We're off the record. 17 MS. GALE: Thank you. 18 (Whereupon, a break was taken 19 after which the following 20 proceedings were had.) 21 HEARING OFFICER HALLORAN: You may proceed. 22 23 MS. GALE: Okay. Thank you. 24

Page 136 1 BY MS. GALE: 2 Q. Mr. Peterson, I hope you have the binder that was FedEx'd to you over the weekend. 3 I do have it. 4 Α. So I would like you to first turn to 5 Q. 6 Exhibit 227 and it's 227-1. 7 (Document marked as Complainant Exhibit No. 227-1 for 8 9 identification.) BY THE WITNESS: 10 11 Α. Okay. BY MS. GALE: 12 What is this? 13 Q. These are the bid forms that were 14 Α. 15 completed by Campanella & Sons. 16 Q. Okay. And that was submitted to 17 you? Yes, these were submitted to Johns 18 Α. 19 Manville and then Johns Manville provided them to 20 me. And these are what you reviewed? 21 Q. 22 Α. Yes, they are. 23 Okay. And other companies also 0. 24 submitted similar bid packages?

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Page 137 1 That's correct, they did. Α. 2 Q. And who was ultimately selected as 3 the construction contractor? 4 Campanella & Sons were selected as Α. the construction contractor. 5 6 Okay. Great. I want you to flip to 0. 7 225? 8 Α. Yes. 9 (Document marked as Complainant Exhibit No. 225-1 for 10 11 identification.) 12 MS. GALE: It's 225-1. BY MS. GALE: 13 14 It's a cover page, do you recognize ο. 15 this cover page? 16 Α. Yes, this is the contract that was 17 executed between Johns Manville and Campanella & 18 Sons. 19 0. And in your binder, it's an excerpt, 20 correct, this is not the whole contract? 21 Α. That's correct. This is just a fraction of the contract. 22 23 And as the resident site engineer, 0. 24 are you familiar with the services and tasks that

Page 138 1 were contemplated by this task? 2 Α. Yes, I am. 3 Q. Okay. And can you describe to me what a base bid is? 4 5 Yes. So when the bid specification Α. 6 went out, it had an original scope of work, it had 7 a scope of work described in it and the base bid that was provided by the contractor was based on 8 that scope of work. 9 And that was prepared in 10 0. 11 approximately when? 12 Α. The bid spec started to be prepared 13 in approximately May of 2015. But that wasn't the end of the work, 14 ο. 15 right? I believe it went out for bid 16 Α. No. 17 in June of 2015 and then there was a bid addendum and it went on from there. 18 19 0. Do you understand the term time and 20 materials? Yes, time and materials is for --21 Α. was for this project when out of scope items were 22 23 identified that needed to be completed. 24 So can you tell me what an out of Q.

Page 139 1 scope item is in relation to the base bid? 2 Α. Yeah, to clarify, that would be information that is not included in the original 3 4 bid specification. So it would be additional 5 work. 6 So, to your recollection, for the 0. 7 Site 3 and Site 6, generally speaking, what were some of the things that were big items that were 8 time and materials that weren't included in the 9 base bid? 10 11 Α. We had work related to utilities. 12 For example, a North Shore Gas line needed to be 13 deenergized and so we had to get access to a valve to close it which required working through a 14 15 wetland, installing a board road, installing a 16 de-watering system. 17 We also had other work 18 associated with AT&T where we had to provide 19 support activities. So when we excavated, we 20 handled the excavated material so that they could do their work. There was also -- we ended up 21 moving everything to this area called the black 22 23 ditch area, which was different from the original 24 specification where we contemplated the industrial

Page 140 1 canal. 2 There were also utility poles 3 that were installed so that some of the 4 underground communication lines could be put 5 overhead allowing us to excavate Site 6. Those are some of the things -- others we had to import 6 7 quarry sand for backfilling as opposed to using sand from the borrow pit. Off the top of my head, 8 those are a few of the items that were additional. 9 Perfect. Okay. So then now I want 10 0. 11 to talk about the construction work. What was the 12 process for determining where removal work was conducted at Site 3 and Site 6? 13 So Site 3 and Site 6 work was 14 Α. 15 completed to create clean corridors for utilities. 16 So that was part of it. And then the other part 17 for Site 3 was to construct a cap across the 18 entire site to be protective of human health and 19 the environment. 20 And that work was based on prior 0. 21 assessments? 22 Α. Yes, it was. 23 And what was in those prior 0. assessments, what was contained in that? 24

Page 141 1 My understanding was the prior Α. 2 assessment involved sampling and sample results 3 detected asbestos. And I think you described earlier 4 Q. 5 remedial action work plan, who prepared that work 6 plan? 7 Α. AECOM prepared it. And what did they do with that work 8 Q. plan once it was finished? 9 They submitted it to the EPA for 10 Α. 11 approval. 12 And what did EPA do? Q. 13 They approved the work plan. Α. Great. So when a work plan is 14 Q. 15 approved, what happens? 16 Α. Work commences. So I'm going to turn back to 17 ο. Yes. 225 and in your binder is 225-93. It should 18 19 actually just be the third page in. 20 Α. I have 225-93. 21 (Document marked as Complainant Exhibit No. 225-93 for 22 23 identification.) 24

Page 142 1 BY MS. GALE: 2 Q. And this is a bunch of figures, a list of a bunch of figures, what are these 3 figures? 4 5 Α. This -- this page identifies the 6 list of figures that the contractor used to base 7 their bid on. Okay. And then turning to 225-96, 8 Q. 9 which is actually just one page over, what is that? 10 11 (Document marked as Complainant 12 Exhibit No. 225-96 for 13 identification.) BY THE WITNESS: 14 15 This is the site layout for Site 3. Α. 16 It uses Illinois state plane coordinates 17 northing's to easting's to identify the limit of 18 Site 3. It also uses them to identify the areas 19 of excavation in Site 3. It also -- the figure 20 shows the excavation depth by hatching in Site 3 and the figure also shows utilities in Site 3. 21 22 BY MS. GALE: 23 Okay. And I think you said 0. northing's and easting's. Can you describe to me 24

Page 143 1 further what that is and point out to me where it 2 is on this figure, please? 3 Α. Yes, the table on the bottom right corner shows it as latitude and longitude. That's 4 5 a misnomer. Those are northing's and easting's, 6 respectfully, in the Illinois state plane 7 coordinate system. So you use those coordinates 8 9 with -- so the contractor uses those coordinates with conventional surveying equipment, with a GPS, 10 11 and goes out to the site and pounds wooden stakes 12 at each one of these locations 1 through 26 using 13 the northing's and easting's to -- to basically lay this drawing out on the ground. That's what 14 15 this drawing is used for. 16 Q. Okay. So can you point out for me I guess top left corner there is a number one for --17 this is an example. 18 What does that number one stand 19 20 for? So in the table that is Boundary 21 Α. Location 1, the table is latitude 2083126, 22 23 longitude 1122147. So those are the northing's 24 and easting's and with the GPS equipment you put

Page 144 1 that into the GPS and you can locate Boundary 2 Location 1. 3 Q. Okay. So AECOM prepared this, but did you review this document in the contract? 4 5 I did, yes. Α. 6 0. And what was its purpose in the contract? 7 8 Α. The purpose in the contract was to lay out the site so that if during bidding -- it 9 was twofold. 10 11 One, the contractor could go out 12 during bidding with the GPS and walk the site and 13 see where the features are and, two, when the work commenced the awarded contractor could install 14 15 stakes to layout the site in preparation for 16 commencing the work. 17 Mr. Peterson, can you please ο. Great. point out where the northeast excavation is on 18 this figure, on Exhibit 225-96? 19 20 Yes, the northeast excavation is Α. bounded by boundary locations 5, 6, 7 and 8. It's 21 up in the northeast portion of this drawing and 22 it's got the diagonal crosshatch. 23 24 Q. Okay. Great. I want you to flip to

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Page 145 1 two pages or so to Exhibit 225-105. 2 (Document marked as Complainant Exhibit No. 225-105 for 3 4 identification.) 5 BY THE WITNESS: 6 Α. Okay. I'm there. 7 BY MS. GALE: Do you recognize this? 8 Q. 9 Α. Yes, this is a similar drawing for Site 6. 10 11 Q. And --MS. O'LAUGHLIN: What number are we 12 13 on? 14 MS. GALE: 225-105. 15 MS. VAN WIE: I don't have that in 16 mine. 17 MS. BRICE: I have it. 18 MS. VAN WIE: The last page I have is 225-96. 19 20 MS. BRICE: It's actually a bigger 21 version of the --22 MS. VAN WIE: Do you have it? 23 MR. GRANT: I don't know that I have 24 That was under 225. it.

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Page 146 1 MS. GALE: It should be under there. 2 MR. GRANT: Hold on. 3 MS. O'LAUGHLIN: Yeah, we have the small version. 4 5 MR. GRANT: Yeah, we're okay. 6 MS. O'LAUGHLIN: Give us a second to 7 do so. 8 MS. VAN WIE: I can see it. MS. GALE: It should be in there. 9 This one is complete. She can have this 10 Okay. 11 one. 12 MR. NISHIOKA: 225 Sections --BY MS. GALE: 13 14 ο. Sorry, Mr. Peterson. We're at 15 Exhibit 225-105. Are you there? 16 Α. Yes, I am. 17 I think you said it was Site 6. Q. 18 Α. Yes. 19 Q. And you see -- I guess, what is 20 this? Generally speaking, what does this represent? What do we see here? 21 22 This represents the areas of Site 6 Α. 23 that needed to be excavated to remove asbestos 24 that was present in the soil.

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1	Q. And what are the lines that we see,
2	the various color lines? Generally speaking, how
3	would you describe them?
4	A. So this this this figure shows
5	the utilities in the colored lines most of which
6	are running east to west and then the excavation
7	depths are shown by hatching.
8	Q. And as you observe on this figure,
9	does the utility line go the entire length of Site
10	6?
11	A. Yes.
12	Q. All the utility lines go the entire
13	length of Site 6? Let's look
14	A. No, not all of them.
15	Q. Great.
16	A. Some of them do.
17	Q. But not all of them, right?
18	A. That's correct. Not all of them.
19	Q. And for the construction work that
20	was done by Campanella and the other utilities in
21	Site 6, was that where was that work,
22	aboveground or underground?
23	A. This was underground work. The
24	lines that are shown here are underground lines

Page 148 before construction started before some of the 1 2 lines were rerouted. 3 Q. Was any work done on the overhead lines? 4 5 Α. No, we didn't have to move overhead 6 lines. We just had to move underground lines. 7 And when did construction work on 0. Sites 3 and 6 begin? 8 9 The earth work started in earnest in Α. 2016. Some utility preparation work started in 10 11 2015. 12 Great. But the real work Q. Okay. 13 like the -- where you had the equipment in there, the big -- I can't remember -- excavators. 14 15 That started summer of 2016. Α. 16 Q. Great. I want you to now flip to 17 Exhibit 213 in your binder. 18 (Document marked as Complainant Exhibit No. 213 for 19 20 identification.) BY THE WITNESS: 21 Okay. I'm there. 22 Α. BY MS. GALE: 23 24 And it's actually the cover page and Q.

Page 149 then there is excerpts from this document, do you 1 2 recognize this document? 3 Α. Yes. What is --4 Q. 5 Α. This is the final closure report. 6 Okay. And the final closure report 0. 7 for what? For the southwest site. 8 Α. 9 0. Okay. Site 3, Site 4/5 and Site 6. 10 Α. 11 Q. And, for the record, is this -- is 12 what is in your binder the entire document? 13 Α. No, it's in a much abbreviated version. 14 15 So now I want to flip to 213-1210 in Q. 16 your binder. 17 (Document marked as Complainant Exhibit No. 213-1210 for 18 19 identification.) 20 BY THE WITNESS: 21 Α. Okay. BY MS. GALE: 22 23 It should be behind a yellow 0. 24 hard-stock.

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Page 150 1 I'm at that page. Α. Okay. 2 Q. Okay. It says it's Appendix F of 3 the AECOM report, right? Yes, it does. 4 Α. 5 And if you flip the page to Exhibit Q. 6 213-1211, what is that? 7 (Document marked as Complainant Exhibit No. 213-1211 for 8 identification.) 9 BY THE WITNESS: 10 11 Α. This is the construction completion report that I prepared --12 BY MS. GALE: 13 14 ο. Okay. 15 -- for the southwest site. Α. 16 Q. What is contained in this document? 17 This document contains a description Α. of the work that was performed. It describes 18 19 equipment, materials and the schedule for 20 completing the work. It also describes waste management, equipment contamination, where 21 22 material was -- was placed and that is in the 23 black ditch, it has some approximate project costs 24 and also describes some operation and maintenance

Page 151 1 activities. 2 Q. Okay. Great. So now I want you to turn to -- so this is -- and I guess this is an 3 4 excerpt of your whole report, isn't it? 5 It is. It is just an excerpt. Α. 0. Okay. So I want to turn to Exhibit 6 7 213-1220. (Document marked as Complainant 8 Exhibit No. 213-1220 for 9 identification.) 10 11 BY THE WITNESS: 12 Α. Okay. I'm there. BY MS. GALE: 13 And so it says here Site 3. 14 ο. 15 Generally speaking, what kind of work was done at 16 Site 3. 17 So for Site 3 initially there was Α. 18 site surveying to put the stakes in the ground. 19 There was access that was made which included an 20 access drive. There was also excavation in Site 3 around the utilities, the North Shore gas lines, 21 the Nicor gas lines and the City of Waukegan water 22 23 There was excavation for the northeast main. 24 excavation area in Site 3. Excavated material was

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Page 152 1 hauled -- hauled off to the black ditch area. 2 Excavations were backfilled by placing the 3 geotextile and sand and then the site was capped 4 with geotextile sand, clay, topsoil and seeded. 5 Okay. And, now, I'd like you to Q. 6 turn to 213-1226. 7 (Document marked as Complainant Exhibit No. 213-1226 for 8 9 identification.) BY MS. GALE: 10 11 0. Again, it's behind hard-stock, I 12 believe. 13 Α. Yes, I'm there. 14 And this says Site 6. So, again, 0. 15 similarly, generally speaking, what work was done 16 at Site 6? 17 So at Site 6, there was excavation Α. 18 of asbestos-impacted soil. There was construction of clean corridors. Utilities were rerouted 19 20 including AT&T and a fiberoptic cable for ComEd and where excavations, when deep enough, the North 21 Shore Gas line was removed, clean corridor was 22 established for the City of Waukegan water main. 23 24 After excavation was complete and asbestos had

Page 153 1 been removed, geotextile was placed in the excavation and it was backfilled with sand, 2 3 topsoil and seeded. 4 And, big picture, what was -- what Q. was the focus of this work, what was the purpose? 5 6 The purpose of this work was really Α. 7 One, to create clean corridors for all twofold. So if utilities needed to be serviced 8 utilities. in the future, they could not be covered by 9 asbestos-containing soil and, second, was to have 10 a clean cap or a clean surface for Site 6 where no 11 12 cap was installed because no asbestos remained to 13 be protective of human health and the environment. And by cleaning those clean 14 ο. 15 corridors, what did you do? 16 Α. We removed soil from the ground. We 17 had to dewater to remove the soil. That soil had what in it? 18 ο. The soil had asbestos in it. 19 Α. 20 Thank you. Staying with Exhibit 0. I want to turn to 1254, which is the last 21 213. page in your 213 tab. 22 23 24

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Page 154 1 (Document marked as Complainant 2 Exhibit No. 213-1254 for 3 identification.) 4 BY THE WITNESS: 5 Okay. I'm there. Α. 6 BY MS. GALE: 7 What is this? 0. This is the survey of Site 3 8 Α. after -- after the work was completed. 9 10 HEARING OFFICER HALLORAN: Ms. Gale, 11 excuse me, 213? 12 MS. GALE: Dash 1254. It should be 13 at the backend, the last page of your 213 tab. It 14 better be. 15 HEARING OFFICER HALLORAN: I'm 16 sorry. Go ahead. Sorry. 17 MS. GALE: No, that's fine. Heart 18 attack. 19 MR. NISHIOKA: They're all the same. 20 BY MS. GALE: 21 I'm sorry. Can you just repeat your Q. answer because I -- what is this? 22 23 This figure is the survey after the Α. 24 work was completed for Site 3. So it shows the

Page 155 1 limit of the Site 3. It shows the limits of 2 fencing. It shows the Nicor gas line. It shows 3 the North Shore gas line. It shows the City of 4 Waukegan water main. 5 And you say survey, what do you mean Q. 6 by that, what is a survey? 7 Α. So a surveyor came out with GPS equipment and went to the fence line and marked 8 the limit of it, also marked the limits of the gas 9 line and the waterline. It also shows an area 10 11 where we placed some stone in the northwest 12 corner. 13 What methodology or data did the Q. 14 surveyor use? 15 So the surveyor goes out and he uses Α. 16 the GPS equipment to record the northing's and 17 easting's in the Illinois state plane coordinate system and then he plops this on a map. You can 18 19 see on the drawing itself it has the northing's 20 and easting's. Those are those E11, 22, 200. Towards the bottom or to the right there is an 21 22 N2083 I think that's a 300 -- the 2083, excuse me, 23 100 to the right there. So they take those 24 coordinates, they put them into a CAD file and

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Page 156 1 locate the site --2 Q. Okay. 3 Α. -- and generate the drawing. 4 Q. Perfect. All right. Mr. Peterson, 5 I want you to flip to 204 in your binder. 6 (Document marked as Complainant 7 Exhibit No. 204 for identification.) 8 9 BY THE WITNESS: Okay. I'm there. 10 Α. 11 BY MS. GALE: 12 Do you recognize this? Q. 13 Α. I do. 14 Okay. Q. 15 It's the expert report from Α. 16 Mr. Dorgan. Very good. And if you can turn your 17 Q. page to 204-38. 18 19 Α. I'm there. 20 0. What is this -- what are we looking 21 at here at 204-38? This is a figure of Site 3 showing 22 Α. 23 the utilities. It also shows the eastern --24 excuse me -- the western limits of Site 6.

Page 157 1 And in your experience -- I should Q. 2 back this up. 3 You started working there in 20- -- working at the Sites 3 and 6 in 2013, 4 5 right? 6 Α. That's correct. 7 Okay. And I believe you said during Q. 8 construction you were there on a daily basis, didn't you? 9 10 Α. I did, yes. 11 0. So in your experience looking 12 at the title, does this document appear to 13 accurately represent where you did your work? Yes, it does. 14 Α. 15 Q. I want to talk about Site 6 and I 16 believe you described that -- the work there was 17 excavation, right? At Site 6? 18 Α. 19 Q. Mm-hmm. 20 Α. Yes. Was there anything else? Excavation 21 Q. 22 and --23 There was dewatering for excavation. Α. 24 Mm-hmm. Q.

Page 158 1 And utilities were moved before we Α. 2 started work so that we could proceed with 3 excavation. 4 Once the excavation was complete, Q. 5 what happened? 6 When the excavation was complete, Α. 7 the site was -- the excavations were covered with geotextile and sand was used to fill them to grade 8 and then topsoil was seeded. 9 At Site 6? 10 0. 11 Α. (Affirmative nod.) 12 Okay. Great. And then at Site 6, Q. 13 did you excavate and fill every foot on the north and south sides? 14 15 I'm sorry. At Site 6, what did you Α. 16 say? 17 I might have broken up. At Site 6, Q. did you excavate and fill every foot of the site, 18 the whole 6? 19 20 Α. Laterally. Not -- not the whole 21 site, no. 22 Q. Okay. Great. 23 Most of it. Α. 24 I want to turn back to 213, which is Q.

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Page 159 1 the excerpt of the final report. 2 Α. Two-thirteen. Okay. 3 Q. And I want to go to 213-38 and it's actually pretty tiny. 4 5 (Document marked as Complainant 6 Exhibit No. 213-38 for 7 identification.) MS. GALE: So, Mr. Grant, I would 8 9 recommend -- we're going to put it up on the screen here. Give us a second. 10 There we go. 11 Sorry, Mr. Peterson. We're just getting it on the 12 screen so we can more easily see it because as you 13 can tell the typing is very tiny. 14 THE WITNESS: Okay. 15 BY MS. GALE: 16 Q. Mr. Peterson, this table, what is 17 it? This table summarizes the 18 Α. 19 confirmation sampling results for asbestos from 20 Site 6. And does it also show where the 21 Q. excavation and filling occurred? 22 It does by way of the results, the 23 Α. results show the depth of the clean samples. 24 So

Page 160 soil was excavated to that depth and then the grid 1 2 ID shows the location. 3 Right. So the first column is what? Q. 4 Α. The first column is grid ID. 5 Okay. And then the fourth column Q. 6 is -- what is that? 7 The fourth column is the excavation Α. depth. 8 9 And then looking at the fourth 0. column, are these -- I guess how would you 10 11 characterize these -- these depths, the same or 12 not the same? 13 They vary. They are not the same. Α. And then let's look at the bottom 14 ο. 15 213-38. 55S through 58S. What happened here? 16 Α. No asbestos was detected. So there 17 was no removal required. 18 Okay. So these were not uniform Q. 19 excavations, right? 20 Correct, they are not uniform. Α. I want to turn to --21 Q. Okay. 22 MS. GALE: Mr. Hearing Officer, I 23 have a ways to go with him. I don't know if you 24 want to do lunch.

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1	HEARING OFFICER HALLORAN: Let's go
2	off the record for a minute, transcript, whatever.
3	(Whereupon, a break was taken
4	after which the following
5	proceedings were had.)
6	HEARING OFFICER HALLORAN: We're
7	going to take a lunch now and be back about 1:45.
8	Thank you.
9	(Whereupon, a break was taken
10	after which the following
11	proceedings were had.)
12	HEARING OFFICER HALLORAN: We're on
13	the record. It's approximately 1:50. We just got
14	back from lunch. Mr. Peterson is up and Ms. Gale
15	is directing him. You may proceed. Thank you.
16	MS. GALE: Thank you.
17	BY MS. GALE:
18	Q. Mr. Peterson, when we were talking
19	before lunch, we were discussing the excavation at
20	Site 6 and I just want to ask you a follow up on
21	that.
22	Where were the deepest
23	excavations in Site 6?
24	A. The deepest excavations were at the

Page 162 1 west end proximate to Site 3 --2 Q. Okay. Great. -- on the south side -- south side 3 Α. 4 of Greenwood Avenue north of Site 3. Those were 5 the deepest. 6 Excellent. Thank you very much. 0. 7 Now, I want to turn to a few questions about Site I believe you said earlier that part of the 8 3. work that occurred at the site was putting on the 9 cap and what was involved in putting on that cap? 10 11 Α. So putting on the cap was we had to -- I mean, I was putting down the geotextile, 12 13 putting down sand, compacted clay and three inches of topsoil on top and then a vegetative cover on 14 15 the topsoil. 16 Q. Great. So that -- so the topsoil, was there something wrong with some of the 17 topsoil? 18 19 Α. Yes, after the work was completed a 20 subsequent inspection found that there were small pieces of asbestos in the topsoil. 21 And when did that occur? 22 Q. 23 The inspection occurred in April of Α. 24 2018.

Page 163 Okay. And so we found the asbestos. 1 Q. 2 I presume it had to be fixed, right? 3 Α. That's correct. 4 Who paid for fixing that problem? Q. 5 Α. The contractor was responsible for 6 paying to remove all of the topsoil that was 7 disposed at the landfill and bring in new topsoil and place it. 8 9 Who was that contractor, what was 0. their name? 10 11 Α. Campanella & Sons. 12 Since they paid for it, were Q. Okay. 13 those costs and any invoices sent to Johns Manville? 14 15 No, they did not invoice Johns Α. It was all on their nickel. 16 Manville. 17 0. Great. Thank you. Now, I want to discuss -- let's actually turn to, again, Exhibit 18 19 204 and I want to go to 204-38, which is Figure 1 20 of Mr. Dorgan's report. I'm there. 21 Α. Okay. Looking at this figure, where 22 Q. Okay. was the City of Waukegan waterline located? 23 24 The waterline is located in the Α.

Page 164 northwest area of the site. It's the L-shaped 1 2 trench. It's actually labeled City of Waukegan 3 waterline. 4 ο. Now, when you first started working 5 at the site, at Site 3, is this location where you 6 believed the waterline to be? 7 No, it is not. Α. Where did you originally think it 8 Q. 9 was located? The records that were done showed 10 Α. 11 the waterline being located south of this. 12 So the records -- what Q. Okav. 13 records are you describing? Excuse me. Those were the drawings 14 Α. 15 in the remedial action work plan that was prepared 16 by AECOM that showed the waterline as being not found it --17 18 ο. And where --19 Α. It was located south. 20 Sorry. Where did they get that 0. information from? 21 I presume that they visited the City 22 Α. of Waukegan and possibly looked at some drawings 23 24 or maybe there weren't drawings. I'm not -- I'm

Page 165 1 not really sure about how it was determined. 2 Q. So I guess I take it from that that it's a different location. 3 4 How did you learn that it was --5 originally understood a location was incorrect? 6 As it came time to do the work, we Α. 7 asked the City of Waukegan field inspectors to come out and locate the waterline and they had a 8 different idea of where it was than where it was 9 marked on the drawing. In addition, our 10 11 contractor had done a waterline repair a year or 12 two previously and marked the repair with a pipe 13 in the ground. 14 So based on that repair and the 15 field folks for the City of Waukeqan, they located the waterline where it is at that time. We then 16 17 dug some test pits to confirm the location of the waterline. 18 19 0. Okay. And when was this done? 20 I think we found it in approximately Α. June of 2016 when we found this location. 21 22 Q. Okay. Great. Next I want to turn to the northeast excavation. Looking at the same 23 24 figure, 204-38, can you describe for me where the

Page 166 1 northeast excavation is located. 2 Α. Yes, it is at the northeast area of 3 Site 3. It is actually labeled northeast 4 excavation and it is three rectangles side by side 5 west to east. 6 To your knowledge and recollection, 0. 7 is this located in the correct location on this figure? 8 9 It is, yes. Α. And what work was done within these 10 0. 11 three, as you say, rectangles? 12 The soil was excavated, material was Α. 13 then -- geotextile was placed in the excavation, it was backfilled with sand prior to capping the 14 15 site. 16 Q. And how deep did you have to go in 17 this excavation? 18 I believe it was approximately four Α. 19 feet with the plan. I think one of the samples, 20 maybe the western wall, did not come back -- it still contained asbestos at four feet. So we had 21 to go an additional foot deeper. 22 23 And I think you explained that. 0. And do you remember which sample it was that required 24

Page 167 1 it to be deeper? 2 Α. The samples were taken and looking at this drawing it must have been B3-50. 3 Great. Same figure, Figure 204-38, 4 Q. 5 I now want to discuss North Shore gas line. 6 Can you describe to us the 7 location of the North Shore gas line running through now -- I guess running through this entire 8 figure? 9 Yes, it enters Site 3 at the western 10 Α. 11 boundary kind of midpoint north to south and then 12 traverses across at an east northeasterly 13 direction. It kind of goes up near that B3-50 14 sample we were just talking about. 15 Does it stop at Site 3? Q. 16 Α. No, it doesn't. It extends into 17 Site 6. 18 And to your knowledge and Q. recollection, is it depicted on this figure in the 19 20 correct location? Yes, it is. 21 Α. And for Site 3 related to the North 22 0. Shore gas line, what work was done? 23 24 So Site 3 had to be deenergized --Α.

Page 168 The North Shore gas --1 excuse me. 2 Q. Dave -- Mr. Peterson, you cut out. 3 So last thing we heard was so Site 3 had to be 4 deenergized. So start other again. 5 All right. Let me just start all Α. The work in Site 3 for the North Shore gas 6 over. 7 line started with deenergizing the line. To do that, we had to go west of Site 3 across the road 8 9 down in a swampy area. We had to build a board road, we had to put in a dewatering point system 10 11 to draw the water down so we could get access 12 inside the -- inside the vault box, if you will, 13 to close the valve. 14 Once that was closed, we were 15 able to go over to the North Shore gas line that 16 was approximately near 04S where it was excavated. 17 The gas line was then cut and capped. This then also severed service further east in Site 6 from 18 19 the North Shore gas line. Once that was cut and 20 capped, we proceeded to do the excavation around the North Shore gas line constructing the clean 21 corridor. Once that was constructed and 22 geotextile was laid down and backfilled and 23 covered, then the valve off in the swampy area was 24

Page 169 1 opened and the line was reenergized. I think -- so that was for Site 3 2 Q. 3 and then you mentioned location 04S, where is that located? 4 5 Α. That's sort of at the end of the 6 green in Site 6. 7 Q. Okay. On the south side of Greenwood. 8 Α. So the work you described 9 0. Mm-hmm. started on the west -- western edge of Site 3 and 10 11 continued diagonally to Site 6, right? 12 Α. Yes. 13 And then your description of 04S, Q. that was in Site 6, right? 14 15 Α. Yes. 16 Q. Okay. And then so continuing with 17 my next question related to Site 6, you may have answered this, but I'm going to ask it, what work 18 19 was done on Site 6 for the North Shore gas line? 20 Α. So after the North Shore gas line was deenergized for Site 6, we proceeded to 21 22 excavate soil to remove that, which was -contained asbestos. If the excavation was deep 23 24 enough that we encountered the North Shore gas

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Page 170 1 line, then that gas line was removed. And if our excavation was shallow such that we did not 2 3 encounter the gas line, then the gas line was left 4 in place. 5 All right. I want to turn now to Q. 6 Exhibit 214 in your binder. It should be the last 7 tab. 8 Α. Okay. 9 (Document marked as Complainant Exhibit No. 214 for 10 11 identification.) 12 MS. TIPSORD: Ms. Gale, can you give 13 me just a minute? 14 MS. GALE: Yes. 15 MS. TIPSORD: I just want to check 16 with everyone. We have had a network issue here 17 showing up on the host computer and also in my 18 Outlook. So I want to be sure that everyone on Webex was able to hear us. I'm going to unmute 19 20 everybody. 21 MR. PAULEY: It shows me you were --MS. TIPSORD: Daniel Pauley, I'm 22 23 unmuting you. 24 MR. PAULEY: We can still hear you.

Page 171 1 Okay. All right. MS. TIPSORD: Ι 2 just wanted to be sure everything -- everybody is 3 muted again. Okay. 4 Okay. Everybody is muted again, 5 including Dave. Let me unmute him. Danny, it's 6 not letting me do that. Danny, it's not letting 7 me unmute Dave. Mr. Peterson, if you can do Star 8 6 on your phone and unmute yourself. 9 THE WITNESS: I just did it. I'm 10 here. Can you hear me? 11 MS. GALE: Yes. 12 MS. TIPSORD: Sorry. There was a 13 network issue. It went all the way to my Outlook. It did the same thing on the phone. 14 It just 15 disappeared. 16 MS. GALE: It's fine. All good? 17 MS. TIPSORD: We're good. 18 MS. GALE: All right. Great. 19 BY MS. GALE: 20 Exhibit 214, are you there? Q. 21 Α. Yes. Okay. And, generally speaking, what 22 Q. is Exhibit 214? 23 24 It contains photographs of Site 6 Α.

Page 172 1 and Site 3 excavation. 2 Q. And who took these photographs? 3 Α. I took these photographs. 4 When did you take these photographs? Q. 5 These photographs would have been Α. 6 taken -- from the work being completed, it would 7 have been probably August of 2016. Okay. And how are these photographs 8 Q. maintained or stored? 9 These photographs are saved 10 Α. 11 electronically. 12 Where? Q. 13 On a computer and backed up. Α. 14 ο. And what was the purpose of taking 15 these photographs? 16 Α. This is just part of my routine, 17 daily activity where I photograph work that is occurring. Since work was occurring here, I was 18 19 taking pictures. 20 And did you maintain these 0. photographs in your regular course of business? 21 22 Yes, I did. Α. 23 Very good. I want to turn to 0. 24 Exhibit 214-14.

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Page 173 (Document marked as Complainant 1 Exhibit No. 214-14 for 2 3 identification.) 4 BY THE WITNESS: 5 Okay. Α. 6 BY MS. GALE: 7 Describe for me what is in this 0. photo. 8 9 This photo is taken --Α. 10 MR. GRANT: Let me interrupt --11 BY THE WITNESS: 12 -- of the excavation in Site 3 --Α. 13 HEARING OFFICER HALLORAN: Mr. 14 Peterson, just hold on a minute, please. 15 MR. GRANT: Before he start -- they 16 start to use these exhibits, I'd like to know 17 where they were taken because if they're taken outside the area that we all know is described by 18 19 the Board as the area of IDOT's liability, then 20 they're not relevant in this case. HEARING OFFICER HALLORAN: Ms. Gale? 21 MS. GALE: Well, I'm actually going 22 23 to ask him where each picture is -- was located as 24 part of my questioning. We think these photos are

Page 174 1 relevant because they demonstrate and they show 2 where the asbestos-containing material was found 3 during the excavations and so really the relevance 4 is to what was underneath each sample point. 5 HEARING OFFICER HALLORAN: Okay. Ι 6 will overrule it. Go ahead, Ms. Gale. 7 MS. GALE: Thank you. BY MS. GALE: 8 I'll ask the question so it's clear. 9 0. Looking at Exhibit 214-14, what does this picture 10 11 show? 12 This is a picture capturing the Α. 13 excavation ongoing work in Site 6. The excavator is down towards the western limit of Site 6 on the 14 15 south side of Greenwood and then a little bit of 16 light colored material on the right side of the 17 photo is the -- where the North Shore gas line was terminated. So that's approximately where sample 18 19 04S is. So this shows what remains underneath 20 adjacent to Greenwood from the western limit of Site 6 south side of Greenwood up to the North 21 Shore gas line where it was terminated. 22 23 And so approximately if you can tell 0. me what sample points you can see in this photo. 24

Page 175 1 Approximately, 01, 02, 03 and 04S. Α. 2 Q. And what do you see along the 3 excavation in the photo? 4 In the photo, you see industrial Α. 5 debris, including asbestos, approximately three to 6 five feet below grade in the bank of the 7 excavation. Okay. And how do you know it's 8 Q. asbestos? 9 Because I was there and I saw it. 10 Α. 11 0. Now, I want you -- we're all going 12 to do this exercise and Mr. Peterson can play 13 along. The rest of you don't have to. I want you to take that photo out and place it on the desk in 14 15 front of you and close your binder again and flip 16 to 214-19. 17 (Document marked as Complainant Exhibit No. 214-19 for 18 19 identification.) 20 BY THE WITNESS: Okay. I'm at 214-19. 21 Α. BY MS. GALE: 22 I guess first question where, to 23 0. your knowledge, is this photo pointing at? 24

Page 176 1 This photo is pointing at Α. 2 approximately sample locations 04 and 05. It is 3 looking north into Site 6. 4 Okay. And what do you see in this Q. 5 photo? 6 Again, you can see the bank, you can Α. 7 see the industrial debris, including asbestos, well three to five feet below adjacent grade. 8 There are also some abandoned electrical conduits 9 running across the ground. 10 11 0. Okay. And, again, same deal pull 12 that photo out of your binder and place it next to 214-14. And let's turn back to 214-15. 13 14 (Document marked as Complainant 15 Exhibit No. 214-15 for 16 identification.) 17 BY THE WITNESS: 18 Α. Okay. BY MS. GALE: 19 20 0. Okay. Where -- what does this picture show? 21 22 This picture is another picture of Α. 23 the Site 6. It shows the bank. It also shows 24 where the gas line was cut. It shows the gas line

Page 177 1 that is deenergized coming to the east and it also 2 shows the industrial debris, including asbestos 3 along the wall there just south of Greenwood 4 Avenue. 5 And you said the gas line, can you Q. just tell us which one that is. I don't know what 6 7 gas lines look like. 8 Α. Yeah, that yellow gas line is the North Shore gas line. 9 Great. What sample points can we 10 0. 11 see in this photo? 12 04, 05 and 06 most clearly. Α. And I believe -- what in this --13 Q. 14 what do you see in the embankment in this photo? 15 There is industrial debris, Α. 16 including asbestos. You can see some pipes there and there is other debris, asbestos debris in 17 18 there. 19 0. Same deal. Let's pull this out and 20 put it next to 214-19. Please turn to 214-17. (Document marked as Complainant 21 Exhibit No. 214-17 for 22 23 identification.) 24

Page 178 1 BY THE WITNESS: 2 Α. Okay. I'm there. BY MS. GALE: 3 4 Q. What are we looking at here? 5 Α. This is, again, a picture looking 6 north in Site 6. It shows industrial debris, 7 including asbestos in the bank below where the three folks are standing and closer to who is 8 9 taking the photo there is the North Shore gas line. 10 11 0. Okay. And what sample locations do 12 you see in this photo? 13 This is approximately 07 and 08. Α. And I guess if I'm looking at --14 ο. 15 there is a green material in the middle, what is 16 that? 17 That is roofing granulars. Α. They make products for roofing and they're shingles. 18 19 They would put granulars on. So that looks like 20 roofing granulars like when we demolish the silos at the plant that contain the roofing material. 21 22 What is in those roofing materials? Q. Johns Manville made roofing 23 Α. 24 materials out of asbestos. That contains

Page 179 1 asbestos. 2 Q. And, again, we'll take 217 out and 3 place it next to 215 and I want to turn right in front of you to 2 -- we'll take 214-17 out and 4 5 place it next to 214-15 and I want you to turn to 6 214-18. What does this show? 7 (Document marked as Complainant Exhibit No. 214-18 for 8 9 identification.) BY THE WITNESS: 10 11 Α. Just a different angle facing west 12 showing the industrial debris, including the asbestos on the south side of Greenwood in the 13 bank there. 14 BY MS. GALE: 15 16 Q. And so what sample points are we 17 looking at? 18 Α. This is approximately 07 and 08. 19 Q. Okay. So looking at --20 MR. GRANT: Kristen, I don't have 21 18. 22 MS. GALE: What? 23 MR. GRANT: I don't have 18. Ι 24 found it. Go on.

Page 180 1 BY MS. GALE: 2 Q. Now, looking at these five photos; 214-14, 214-19, 214-15, 214-17 and 214-18, please 3 4 describe for me collectively what these photos 5 show? 6 They show a consistent theme of Α. 7 industrial debris, including asbestos-containing material present underneath the southern -- the 8 bank next to Greenwood Avenue approximately three 9 to five feet below grade. That's what it shows. 10 11 0. Okay. And what would that consistent scene indicate to you? 12 13 Α. To me, it looks like very similar materials all along the way. It basically looks 14 15 like it's constructed at the same elevation. So 16 from my perspective, it looks like it was 17 something that was completed at approximately the same time. 18 19 0. And I guess a counter question is 20 what -- if it was completed at a different time, what would you see? 21 I think it would be difficult -- it 22 Α. would be difficult to do this at a different time 23 24 because you would have to plan to excavate to a

Page 181 1 certain depth to lay down the same or similar 2 material and so that would have required planning ahead of time and if it was -- if it was done at 3 different times, I would -- there would be some 4 changes I would think in industrial debris and in 5 6 some places like that layering wouldn't -- you 7 know, would be discontinuous. So this looks like it was done at the same time. 8 9 MR. GRANT: Can you explain or at least clarify what time you're talking about, 10 11 different times, same time? 12 MS. GALE: Can you do it on 13 your cross? 14 HEARING OFFICER HALLORAN: You can 15 do it on cross. 16 MR. GRANT: Sure. 17 HEARING OFFICER HALLORAN: Thanks. BY MS. GALE: 18 19 0. Mr. Peterson, at some point, you became aware of this litigation, is that correct? 20 Yes, that's correct. 21 Α. And were you asked questions by 22 Q. 23 Mr. Dorgan about your work at the site? 24 Α. Yes, I was.

Page 182 1 And did you talk to him about the Q. 2 work that is displaced in these five photos? 3 I talked to him about a lot of work Α. 4 and, yes, I did talk to him about the work that 5 was displayed in these five photos. 6 What did you tell him? 0. 7 I told him that it looked like Α. consistent material all along the north side of 8 9 Site 6, the north side of the southern portion of Site 6. 10 11 0. Great. You can put those photos 12 away for now. Thank you very much. We just 13 discussed how you had talked with Mr. Dorgan. 14 As part of your conversations 15 with him, did he ask you to do anything? 16 Α. Yes. I was asked to prepare a 17 summary of all the costs associated with Site 3 and Site 6. 18 19 0. Okay. I want you to turn back to 20 204 in your binder and you're actually going to go to Exhibit 204-71. 21 22 (Document marked as Complainant Exhibit No. 204-71 for 23 24 identification.)

Page 183 1 BY THE WITNESS: 2 Α. Okay. I'm there. BY MS. GALE: 3 4 Do you recognize this document? Q. 5 Α. Yes, this is the cost summary I 6 prepared. 7 Okay. So let's turn to Table 0. Okay. 1. What does Table 1 show us, generally speaking? 8 9 Table 1 summarizes various work Α. elements and describes the work elements and shows 10 where costs were incurred for those work elements 11 12 with respect to whether it was in the bid document 13 where the project was awarded, whether it was a time and materials work for Campanella. 14 It shows 15 engineering and onsite supervision of the work and 16 also includes a summary of other miscellaneous 17 costs --18 Now, you use the phrase --Q. 19 Α. -- to tally the total cost. 20 Sorry. You used the phrase work 0. element. 21 22 Are you familiar with the phrase task bucket? 23 24 Yes, I am. These work elements Α.

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1	could be called task buckets.
2	Q. Okay.
3	A. They're synonymous.
4	Q. Turn to Table 2. What does Table 2
5	show?
6	A. Table 2 is a detailed cost breakdown
7	for the awarded project, so the bid work, and it
8	takes each one of the line items and attributes it
9	to a work element or task bucket and then totals
10	it down at the bottom.
11	Q. Okay. Thank you. Turn to Table 3,
12	which is the next page. What does Table 3 show?
13	A. Table 3 shows time and material
14	invoices and attributes every line of every
15	invoice to a task bucket.
16	Q. Table 3 is kind of big. So we'll
17	skip to Table 4, which is located at 204-79.
18	(Document marked as Complainant
19	Exhibit No. 204-79 for
20	identification.)
21	BY THE WITNESS:
22	A. Okay.
23	BY MS. GALE:
24	Q. Can you describe to me what Table 4

Page 185 1 shows? 2 Α. Yes, Table 4 shows a breakdown of 3 engineering, like office type duties, compared to 4 onsite resident site engineer supervision crew, 5 quardhouse operation, for each -- each item. 6 And just for the record for everyone 0. 7 so when they're reading this Table 4, what does D -- at the top left corner DMP, PE PC stand for? 8 9 That's my company. David M. Α. Peterson, PE PC. 10 11 0. Thank you. And turning to Table 5, 12 which is on Page 204-90. 13 (Document marked as Complainant Exhibit No. 204-90 for 14 15 identification.) 16 BY THE WITNESS: 17 Α. Okay. BY MS. GALE: 18 19 Q. Generally speaking, what does this 20 show? This shows other costs associated 21 Α. with the project. It shows utility costs that 22 23 were invoiced from AT&T to North Shore Gas, it 24 shows water discharge costs to North Shore Water

Page 186 1 Reclamation District, it shows some fence 2 construction costs and some tree clearing costs. 3 Q. And looking at all of these tables, 4 Mr. Peterson, that you prepared, do you believe 5 you accurately reflected the costs for 6 Campanella's services related to Sites 3 and 6? 7 Α. Yes, I do. 8 Q. Same question. In looking at these 9 tables that you prepared, do you believe you accurately reflected the costs for your services 10 11 relating to Sites 3 and 6? 12 Yes, I do. Α. 13 Looking at these Tables 1 through 5, Q. Mr. Peterson, how many hours did you spend to 14 15 create this -- to work on these tables? 16 Α. It took a long time because I went through every invoice and every line item and 17 18 reconciled it with progress reports and photos and 19 I would say on the order of a couple hundred 20 hours. Excellent. 21 Q. MS. GALE: Nothing further. 22 Thank 23 you. 24 HEARING OFFICER HALLORAN: Thank

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Page 187 1 you, Ms. Gale. Mr. Grant? 2 MR. GRANT: Yes. Can I have one 3 second? 4 HEARING OFFICER HALLORAN: Yes. 5 CROSS EXAMINATION 6 BY MR. GRANT: 7 0. Mr. Peterson, can you see me? Your head is cut off. I can see 8 Α. 9 your shoulders. I probably look better that way. 10 0. 11 I'm Chris Grant. I'm with the Attorney General's 12 Office and I represent IDOT. 13 Let me start with the question that I tried to get Ms. Gale to ask about. 14 15 Looking at -- if you can pull out those pictures 16 if you still have them, it would be great; 214-14, 214-15, 214-17 and 214-18, do you have those? 17 18 I do, yes. Α. 19 0. Okay. Now, you mentioned that it 20 was your belief that this was -- this all happened at the same time, I can't remember exactly what 21 your words, but what do you mean by the same time? 22 23 The same mobilization. Α. In other 24 words, it was excavated, work was done, it wasn't

Page 188 1 half done, people went away, came back months 2 later and did it again. 3 Q. Okay. You're -- you mentioned 4 looking at -- let's go to 214-14. You observed 5 industrial debris and asbestos and you even specified the depth that it was buried from 6 7 looking at this picture. I'm looking at it and I just see 8 what looks like a hole. Where are you seeing such 9 details like that there is asbestos in here in 10 11 214 - 14?12 I mean, I was there. I was walking Α. 13 in that trench. I was up close to it. The 14 picture doesn't show me being up close to it, but 15 I was right there. 16 Q. So did you take samples of the 17 material and have them -- have them tested? 18 No, I didn't. Α. 19 Q. Why not? 20 Α. Because we were excavating and backfilling. 21 In all the other photos that 22 Q. Okay. 23 you've -- that you've -- not all the other ones, 24 but in the ones we're talking about which is 14,

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Page 189 1 15, 17 and 18 where you've identified asbestos, is that true of all of those excavations? 2 3 MS. GALE: Objection. Vague. 4 BY THE WITNESS: 5 Α. Is what true? 6 HEARING OFFICER HALLORAN: Hold on. 7 Ms. Gale has an objection. BY MR. GRANT: 8 All right. Is -- is it true of all 9 0. those other excavations where you've identified 10 11 asbestos that you didn't take any samples? 12 MS. GALE: Objection. Vague all those other excavations. I don't understand. 13 14 MR. GRANT: Fine. Let's do it 15 picture by picture. That ought to save time. 16 BY MR. GRANT: 17 0. In 214-15 --18 Α. Okay. 214-15. 19 Q. -- you've identified asbestos as 20 well as industrial debris, I believe, in there, did you take samples at the location to verify 21 22 that it was asbestos? 23 I did not. Α. 24 214-17 where you have also Q.

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Page 190 1 identified general debris as well as asbestos. 2 Α. I did not sample the wall. 3 ο. You did not sample. And the same for the next one 214-18? 4 5 I did not sample the wall. Α. Okay. And for the same reason that 6 0. 7 you were in the middle of an excavation, you didn't have time to take samples? 8 9 Α. There was no -- it wasn't part of 10 our scope of work. Our scope of work was to 11 excavate where samples had been taken and asbestos 12 had been found and so this whole trench was 13 excavated because there were prior samples collected that determined there was asbestos 14 15 there. 16 Our purpose was to excavate Site 17 6 to remove the asbestos, provide a clean corridor and the limits of that were predefined and so 18 that's what we did. 19 20 Now, when -- when the initial 0. evaluation is done -- was done on this and the 21 engineering evaluation and cost analysis that was 22 submitted to U.S. EPA, they took samples, 23 24 identified the type of asbestos-containing

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Page 191 material and then also had laboratory analysis 1 2 done of those samples, didn't they? 3 Α. I wasn't part of the ECA. So I 4 don't -- I don't know what they did. 5 Are you familiar with Sites 4 and 5? Q. 6 Α. I am. There was all sorts of buried 7 Q. Okay. material, there was buried transite asbestos, 8 buried roofing material, brake shoe liners in 9 Sites 4 and 5 as well, correct? 10 11 MS. GALE: Objection. Relevance. 12 HEARING OFFICER HALLORAN: Mr. 13 Grant -- overruled. You may proceed. BY THE WITNESS: 14 15 Α. The answer? 16 BY MR. GRANT: 17 Q. Yes, please. 18 That material was present in Sites Α. 19 4 and 5. 20 Are you familiar with Site 2, which 0. is outside of the southwest site's area, but is 21 22 east of Site 3? 23 Yes, I am. Α. 24 Q. Okay. And asbestos-containing

Page 192 1 material was found there on the surface and then 2 also subsurface, correct? MS. GALE: Again, objection 3 This lawsuit isn't about Site 2. 4 relevance. 5 MR. GRANT: No, it's about his 6 knowledge of asbestos. 7 HEARING OFFICER HALLORAN: I'm 8 sorry, Mr. Grant. 9 MR. GRANT: It's about his knowledge of asbestos and subsurface asbestos. 10 11 HEARING OFFICER HALLORAN: Yeah. 12 You know what, he can answer if he's able. 13 Thanks. We have to move this along. BY THE WITNESS: 14 15 I did not do the sampling at Site 2 Α. 16 and I did not manage the remediation at Site 2. 17 So I did not see that Site 2 up close and 18 personal. 19 BY MR. GRANT: 20 Q. So you haven't visited Site 2? Excuse me. I know where Site 2 is. 21 Α. 22 Q. Okay. 23 What was your question? Α. 24 Q. That was my question. It was have

Page 193 1 you visited it first? 2 Α. Yes, I know where Site 2 is. 3 Q. And are you aware of the asbestos contamination at Site 2? 4 5 To my knowledge, the asbestos Α. 6 contamination was -- the threat to exposure was 7 abated some time ago. Have you heard of any IDOT 8 Q. 9 involvement, and by that, I mean any road construction, any movement of the surface in Sites 10 11 4, 5 or 2? 12 Α. No. 13 In all three of those sites, 4, 5 Q. and 2, they are outside of the Johns Manville 14 15 facility, correct? 16 Α. That's correct. Two is partially. 17 0. What I mean --18 Not completely. Α. 19 0. Yeah. What I mean is outside of the 20 former Johns Manville facility. Site 2 is partially on Johns 21 Α. Manville property. 22 23 I believe that you stated you 0. 24 assisted Mr. Dorgan in providing the cost numbers

Page 194 1 for -- for his evaluation the work, the cost 2 numbers for the work that you oversaw at the 3 site? 4 That's correct. I prepared a cost Α. 5 summary for Mr. Dorgan. 6 And the numbers that you prepared 0. 7 for Site 3, that was for all of Site 3, correct? Yes, that's correct. 8 Α. And that would include the -- the 9 0. Nicor gas line in Site 3? 10 11 Α. Yes, that's correct. 12 Okay. And in the numbers that you Q. 13 provided to him from Site 6, that included also the northern border of Greenwood Avenue for 14 15 remediation at that location? 16 Α. Yes, the northern shoulder of 17 Greenwood Avenue. 18 Are you familiar with --Q. 19 Α. Yes. 20 I'm sorry. Are you familiar with 0. the Board order that was issued on December 15th, 21 2016, in this case? 22 23 I know of it. I have not read it. Α. 24 Q. Okay. Have you -- have you made

Page 195 1 that -- have you been asked to make any effort to 2 limit the costs that you reported to Mr. Dorgan 3 pursuant to the findings of the Board order? 4 Α. No, I presented total costs. 5 MR. GRANT: Can I have one minute, 6 Mr. Halloran. Just one minute, Mr. Peterson. 7 (Whereupon, a break was taken after which the following 8 9 proceedings were had.) 10 MR. GRANT: Back on, please. 11 HEARING OFFICER HALLORAN: Go ahead. 12 I'm sorry. 13 MR. GRANT: No, it's okay. Ι 14 stopped. 15 BY MR. GRANT: 16 Q. Mr. Peterson, are you familiar with the north side of Greenwood Avenue on Site 6? 17 18 Α. I am, yes. 19 0. Weren't there multiple layers of 20 pavement on the north side of Greenwood Avenue? Partially adjacent to Greenwood 21 Α. 22 Avenue. Doesn't that indicate that there 23 0. were several road projects over a period of time? 24

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Page 196 1 I'm not really sure what it Α. indicates. 2 I mean, multiple layers of pavement 3 could be because of maintenance. It could be -- I 4 don't know. 5 But that would indicate different Q. 6 work at different times, wouldn't it? 7 Α. It could, sure. 8 MR. GRANT: That's all I have, Mr. Halloran. 9 HEARING OFFICER HALLORAN: 10 Thank 11 you, Mr. Grant. Ms. Gale, redirect. 12 Just a few questions. MS. GALE: 13 REDIRECT EXAMINATION BY MS. GALE: 14 15 Mr. Peterson, I'm actually going to Q. 16 sit here. Can you still hear me? 17 Α. Yes, I can. 18 Great. Let's go to picture -- let's Q. 19 go to Exhibit 214-15. 20 Α. Okay. I think you were asked some 21 Q. questions on these various photos and he was 22 asking you about a different photo, but can you 23 24 just point out and describe for the record and

Page 197 even hold up to your screen, point out for the 1 2 people in the room where you see -- where you see 3 asbestos-containing materials? It's kind of hard to do. 4 Α. 5 Q. Yeah. There's a circle right here. 6 Α. You 7 can see that's a pipe, there is a piece of pipe down here. 8 9 So let me stop you for the record. 0. In the circle you see, is it directly below the 10 11 shelf underneath the road below -- I don't even 12 know what these things are called. Those camels, 13 is that the circle you're seeing? Yeah, the barricades. 14 Α. 15 The barricade if you go down, you ο. 16 know, below the barricade, is that the circle that 17 you're describing the furthest right barricade? 18 Α. Yes. 19 0. Okay. And then keep on describing 20 for me where you see the other pipe that you believe -- that you see asbestos-containing 21 22 material? If you go further down towards this 23 Α. 24 corner of the picture.

Page 198 The bottom right corner? 1 Q. 2 Α. Horizontal. Bottom right corner. 3 Q. Mm-hmm. 4 Α. I don't -- I don't know how well 5 this is working. 6 I got it. And that just above the 0. 7 shadow --8 Α. Yeah, that's right there. The picture is kind of a low resolution. 9 10 Q. Sure. 11 Α. But those are two obvious pieces. Right. And in your experience in 12 Q. 13 doing projects like this -- I guess I'll back it 14 up. 15 Mr. Peterson, how much 16 experience do you have in observing 17 asbestos-containing materials in soil? Well, I've been observing asbestos 18 Α. 19 material out here since the building demolition 20 and we've gone through several mediation projects to close lagoons where we have dug into soil and 21 22 identified asbestos of all types. So I'm -- for 23 20 years, I have been observing asbestos out at 24 this project.

Page 199 And at this project did you also see 1 Q. 2 transite material looking at --3 Α. Yes, I've seen transite material in excavations before. 4 And look at these photos 214-14, 5 Q. 6 214-15, do you see transite materials in these 7 photos? Yeah, 214-15 I believe those two 8 Α. 9 that I pointed out were transite material, 214-14 -- kind of far away from 214-14. And the 10 11 resolution is not very high. It's hard to see. 12 But, like I said, I was in the excavation close to 13 it. 14 Right. When you were there looking Q. 15 at it, what did you see? 16 Α. I saw roofing material, I saw pipes, I saw -- I saw the shingles, the granular material 17 18 with the shingles, I saw some transite wallboard. 19 That's what comes to me off the top of my head. 20 What did all those materials 0. contain? 21 MR. GRANT: Objection. 22 BY THE WITNESS: 23 24 Those were all --Α.

Page 200 1 HEARING OFFICER HALLORAN: T'm 2 sorry. Mr. Grant has an objection. 3 MR. GRANT: Yeah. He has no way of 4 knowing. He didn't do any testing. That question 5 cannot be reasonably answered. 6 HEARING OFFICER HALLORAN: He can 7 answer if he is able. Proceed. BY THE WITNESS: 8 9 Α. Those are all products that in my history out at this site my experience is they 10 11 contain asbestos. In the soils that we have 12 excavated out at the site, they have been there 13 when asbestos has been present. I know Johns 14 Manville made products using asbestos, made these 15 products using asbestos. 16 BY MS. GALE: 17 0. Mr. Peterson, you were asked a few 18 questions about when you were doing your 19 construction work and the excavation work out 20 there whether you sampled and conducted the sampling and you said you didn't do any sampling, 21 but then I believe you also said -- well, I'll ask 22 23 you this question. 24 Why didn't you take any samples?

Page 201 1 We did not need to sample the side Α. 2 wall of the excavation along Greenwood Avenue. 3 That was not part of our scope of work. Right. Because who did? 4 Q. 5 Α. Nobody sampled the side wall along 6 Greenwood Avenue. 7 Why were you excavating there? 0. We were excavating because there 8 Α. were samples selected that contained asbestos and 9 we were removing those. 10 11 Q. Okay. But we were not charged with digging 12 Α. 13 up Greenwood Avenue. Right. But you were charged with 14 ο. 15 digging up just south of Greenwood Avenue, 16 correct? 17 Α. Correct. 18 And why -- why were you excavating Q. 19 there? 20 Because there were samples that Α. contained asbestos and the asbestos had to be 21 22 removed. 23 Thank you. 0. 24 Nothing further. MS. GALE:

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Page 202 1 HEARING OFFICER HALLORAN: Thank 2 you, Ms. Gale. Mr. Grant? 3 ΕΧΑΜΙΝΑΤΙΟΝ RECROSS BY MR. GRANT: 4 5 Turning to 214-15 again. Q. 6 Α. Okay. 7 And I think you identified a pipe in Q. the lower right-hand corner of the photograph, is 8 9 that where the pipe you were talking about was? 10 Α. It is, yes. 11 Q. Is that a circular pipe? 12 Α. Yes. 13 Cylindrical. Are you aware of the Q. 14 allegations -- not the allegations. 15 Are you aware of the position 16 that the parking lot that had been on the Site 3 17 had been partially constructed or had used split transite pipe? 18 19 Α. Yes, I heard that. 20 That they were used for auto bumpers 0. for some reason? 21 22 Α. Yes, I heard that. 23 This is not a split pipe, is 0. Okay. it, in this photograph? 24

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Page 203 1 That's a small pipe. Α. It's not a 2 pipe big enough to be used as an auto bumper. 3 Q. But it's not split, it's intact, 4 isn't it, as an attached? 5 I'm sorry. It's not --Α. 6 It's -- I'm sorry. 0. 7 Α. It's not what? It's -- it's intact, it's not split. 8 Q. Oh, like cut in half? 9 Α. 10 Q. Yes. 11 Α. Is that what you're referring? 12 Q. Yes. 13 Yes, I would say -- I mean, that's Α. not one of the half -- that's not a pipe that 14 15 could be cut in half to be used as a parking 16 bumper if that's what you mean. It's a small 17 pipe. That wouldn't serve that purpose, I don't believe. 18 19 0. And pipes are made out of a number 20 of different materials not just transite, correct? I don't know that Johns Manville 21 Α. made pipes at this plant out of materials that did 22 23 not include asbestos. 24 Okay. Do you know how this material Q.

Page 204 1 got into the excavation? 2 Α. I do not know how this material got 3 into the excavation. MR. GRANT: That's all I have. 4 5 HEARING OFFICER HALLORAN: Thank 6 you. 7 MS. GALE: One final question. Ι 8 should have asked him before and I apologize. FURTHER EXAMINATION 9 BY MS. GALE: 10 11 0. In Site 6, when you did the 12 excavation, were samples taken at the bottom of 13 the excavation or confirmatory samples taken at the bottom of the excavation? 14 15 Yes, confirmation samples were taken Α. 16 because we had to demonstrate the asbestos was no 17 longer present on the bottom. 18 Thank you. We're good. MS. GALE: 19 MR. GRANT: I think we're through. 20 HEARING OFFICER HALLORAN: 21 Mr. Grant, you're done? Mr. Peterson, I have a question. You stated that you went to the 22 University of Michigan. 23 24 MR. GRANT: I did. Go blue, baby.

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Page 205 1 HEARING OFFICER HALLORAN: And you 2 live in the Buckeye state, how's that working? 3 THE WITNESS: I'm sorry. What's that? 4 5 HEARING OFFICER HALLORAN: And you 6 live in the Buckeye state? 7 THE WITNESS: Oh, my gosh it's horrible. The last 19 years with, what is it, two 8 9 I get pummeled every single November. It's wins? now I'm just hoping since it's in December I have 10 11 a chance. There might be enough snow to slow the 12 Buckeyes down. That's what I'm hoping for. 13 HEARING OFFICER HALLORAN: Good luck 14 and thank you, Mr. Peterson. 15 MS. GALE: Thank you. 16 MS. BRICE: Thank you. 17 THE WITNESS: All right. Thank you, 18 buh-bye. 19 HEARING OFFICER HALLORAN: We're off 20 the transcript. 21 (Whereupon, a break was taken 22 after which the following 23 proceedings were had.) 24

Page 206 1 WHEREUPON: 2 DOUGLAS DORGAN 3 called as a witness herein, having been first duly 4 sworn, deposeth and saith as follows: 5 DIRECT EXAMINATION 6 BY MS. BRICE: 7 Q. Good afternoon, Mr. Dorgan. Good afternoon. 8 Α. 9 Okay. Could you please state your 0. name for the record. 10 11 Α. Douglas G. Dorgan, Junior. 12 And you testified for Johns Manville Q. in this case before, correct? 13 14 Α. That's correct. 15 Q. And I'll refer to that as the 16 liability hearing. 17 That's fine. Α. 18 You were found to be an expert for Q. 19 purposes of offering your opinions in the 20 liability hearing, is that right? 21 That's correct. Α. 22 MS. TIPSORD: Off the record for 23 just a second. 24

Page 207 1 (Whereupon, a discussion was had 2 off the record.) 3 BY MS. BRICE: 4 Q. Mr. Dorgan, can you just briefly describe your educational background for us. 5 6 I have a Bachelor's of Science in Α. 7 Earth Science with a minor in Geology and I have a Master of Science in Geography with a 8 concentration in environmental science. 9 And can you tell us a bit about your 10 0. 11 work history. 12 I've been an environmental Α. 13 consultant since roughly 1986. Early in my career, I did a wide variety of work including 14 15 environmental/civil engineering surveying. As I 16 progressed in my career, I began doing and 17 concentrating more on the environmental side and 18 in that capacity I've managed environmental 19 investigations, I have managed design of 20 remediation systems, I have prepared bid documents, I have let out bids, I have evaluated 21 22 bids, I have evaluated pay requests under those 23 bids and a number of different times I have been 24 involved in allocating costs related to the

Page 208 1 implementation of environmental work. 2 Q. And what is your current title? 3 Α. Co-president. Co-president of what? 4 Q. 5 Weaver Consultants Group and its Α. 6 affiliated entities. 7 Okay. And I did what Kristen did. 0. I forgot to pass out the binders. Sorry about 8 9 that. HEARING OFFICER HALLORAN: 10 We can qo 11 off the record. 12 (Whereupon, a break was taken 13 after which the following 14 proceedings were had.) 15 BY MS. BRICE: 16 Q. One thing. You are -- are you 17 familiar with the opinion in this case? With the opinion? 18 Α. The Board's opinion in this case? 19 Q. 20 Yes, ma'am. Α. 21 And have you read it? Q. 22 Yes, I have. Α. 23 And what generally did the Board 0. 24 conclude?

Page 209 1 That IDOT was found to have violated Α. 2 the act in allowing the placement of asbestos 3 materials as part of their construction project at Greenwood Avenue. 4 5 And where -- any other spots? Q. Well, between both Site 6 and Site 6 Α. 7 3, various areas on both of those two sites. 8 Q. Could you please turn to Exhibit Do you recognize this? 9 204. Yes, I do. 10 Α. 11 0. And what is it? 12 This is my June 13th, 2018, Expert Α. 13 Report of Douglas G. Dorgan, Junior on Damages Attributable to IDOT. 14 15 Okay. And does it contain your -ο. 16 at least your initial opinions in this case? 17 Yes, it does. Α. 18 And you -- you actually had a ο. 19 rebuttal report in this -- I'm sorry. You had --20 let's just back up. Let's keep going. 21 Can you turn to 204-4, please. Here you lay out your various qualifications in 22 23 204-4 and 204-5, correct? 24

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Page 210 (Document marked as Complainant 1 Exhibit No. 204-4 and 204-5 for 2 3 identification.) 4 BY THE WITNESS: 5 Α. That is correct. 6 BY MS. BRICE: 7 And, in particular, are some 0. examples of your experience that are relevant to 8 your work in the damages phase of this matter? 9 I have previously completed projects 10 Α. 11 where environmental work had been completed. 12 There were various parties that were involved, 13 that had been funding the cost of the cleanup and 14 part of my responsibility was to evaluate both 15 contribution and allocate out the cost based upon 16 the contributions that were made to the cleanup 17 scope of work. What about with respect to your 18 Q. 19 engineering -- your background on dealing with 20 environmental cleanups and surveying and that sort of thing? 21 22 It's just been relevant to a lot of Α. the technical issues that are involved in this 23 24 particular matter in terms of your original road

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1	construction that took place, the various
2	discussions around some of the figures, the
3	elevations of where things happened. It's all
4	been very relevant and contributory.
5	Q. And your experience in that area
6	goes back how far?
7	A. 1986.
8	Q. On 204-5, you have a section about
9	information considered.
10	Can you briefly describe for us
11	what information you considered in comparing this
12	report preparing this report?
13	A. Yeah. So as I lay out here of
14	course I looked at the documents that had been
15	prepared historically, including those that had
16	been generated and used in the earlier phase of
17	hearing, reviewed the depositions that had been
18	taken by a number of the witnesses that were
19	called, reviewed the work plan and the final
20	report that was generated for the work that was
21	implemented and then, of course, spent a lot of
22	time looking at the costs that were incurred as
23	tabulated by Dr. Ebihara and Mr. Peterson.
24	Q. Okay. With respect to the

Page 212 information you relied upon, is this the type of 1 2 information reasonably relied upon by experts in 3 your field? 4 Α. Yes. 5 Since the parties have stipulated Q. to the costs incurred, I'd like you to briefly 6 7 explain what you did briefly to determine that JM occurred \$5,579,794 in response costs at 8 Sites 3 and 6? 9 Well, basically, I asked Dr. Ebihara 10 Α. 11 and Mr. Peterson to tabulate their costs that they 12 had been respectfully managing and they provided 13 that to me. Of course as we have previously heard, there were a couple variations on that as I 14 15 was asking questions and having those questions 16 responded to. And then once I had them, I had to 17 try to make sense of them. There was some strong 18 alignment even with what was originally given to 19 I believe Dr. Ebihara kind of categorized it me. 20 as categories. Mr. Peterson categorized it as I coined the term task bucket just 21 work elements. for purposes of making sense out of how the work 22 23 was grouped between the two parties that were managing different aspects of the work. 24

Page 213 1 If you look at Page 9 through --Q. 2 204-9 through 204-13 of your report. And I'm 3 going through this quickly simply because most of 4 this is stipulated to. 5 Can you just -- what are these 6 pages detailing? 7 (Document marked as Complainant Exhibit No. 204-9 - 204-13 for 8 identification.) 9 BY THE WITNESS: 10 11 Α. So these pages are basically grouping the different types of costs in terms of 12 13 broader categories before splitting them into the task buckets. So here I'm looking initially at 14 15 the professional engineering services, which was 16 primarily the work that Dr. Ebihara was 17 responsible for through his involvement with the 18 project. I then looked separately at the 19 construction services. 20 Those were more related to the work that Mr. Peterson had overseen and then the 21 way that I broke that out is I kind of looked at 22 23 the contractor's costs, which were here at the top 24 under 2.1.2.1 Campanella -- and performed by

Page 214 1 Campanella & Sons and then Mr. Peterson's company 2 had provided onsite management services. So I looked at his costs and grouped them together and 3 then there were a series of incidental costs that 4 5 were more directly related to the utility 6 companies and some of the fencing that had to be 7 put up around the site and then finally I was provided with some cost detail for Donald Manikas 8 9 who had provided some legal support on the utility work and then finally U.S. EPA's regulatory 10 11 oversight costs were provided and I included those 12 in the tabulation as well. BY MS. BRICE: 13 And why did you ask for a tabulation 14 ο. 15 of all of the costs for Site 3 and Site 6? 16 Α. I needed to have a starting point to 17 understand what the total cost, what the total spending was on Site 3 and Site 6 so I could begin 18 19 trying to pull out those that were not related to 20 the Board's opinion in terms of their findings in the earlier hearing. 21 22 If you take a look at 204, just turn Q. the page, a couple of pages 13 and 15 there are --23 24 you have your discussion of I guess it's 13, 14

Page 215 1 and 15 discussion of reasonableness, which, again, 2 is stipulated to. 3 Can you just really briefly 4 tell us what you did to come to that opinion? 5 Well, you know, obviously, first, I Α. 6 wanted to know I had everything and that I was 7 tracking it accurately. So I was creating some tables that allowed me to crosscheck my 8 tabulations. I then kind of looked at the costs 9 themselves just to get a feel for whether they 10 11 were reasonable in terms of what I could have 12 expected for the type of work that was implemented 13 and I lay out here a number of bases for coming to the conclusion that I felt that they were 14 15 reasonable and then after I had done that I began 16 looking at whether or not the costs had actually 17 been paid and found that they had been in each instance. 18 19 Q. Okay. Let's go to 204-16 of your 20 report. (Document marked as Complainant 21 22 Exhibit No. 204-16 for 23 identification.) 24

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1 BY MS. BRICE:

2	Q. You say that after the cost had been
3	allocated into the task buckets, you needed to,
4	quote, determine how best to align the task
5	buckets to the Board's finding of liability which
б	focused on boring locations, how did you do this?
7	A. Basically what I looked at was the
8	Board had identified a series of locations that
9	they had ruled as being IDOT's responsibility for
10	the conditions that existed at those locations. I
11	then considered the work that ended up being done
12	as a result of the presence of those locations in
13	terms of, you know, at those locations there was
14	certain work that was caused by the fact that the
15	conditions existed at the locations where the
16	Board had ruled the asbestos could be present. So
17	that's how I began doing my attribution of costs
18	that were incurred at both sites.
19	MS. O'LAUGHLIN: I'm going to lodge
20	an objection here. Some more foundation about how
21	you allocated your costs I get with the borings
22	and things like that, but the last thing I think
23	that we need some more foundation in your

24 testimony today.

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Page 217 1 I'm sorry. MS. BRICE: The 2 allocation into the task buckets was done by 3 Dr. Ebihara and Mr. Peterson. 4 MS. O'LAUGHLIN: Right. MS. BRICE: So his attributions 5 6 we're going to go through in detail. 7 MS. O'LAUGHLIN: Okay. MS. BRICE: This is just sort of a 8 9 setup question. 10 MS. O'LAUGHLIN: Okay. 11 BY MS. BRICE: 12 Okay. If you take a look at 204-38, Q. 13 which I actually have up here and I imagine it is 14 going to magically appear on the screen over here. 15 MS. BRICE: Thank you, Drew. 16 BY MS. BRICE: 17 This is -- this is the Dorgan Figure 0. 1 that we have been referring to previously. Who 18 created this document? 19 20 Α. I did. And why did you create this map? 21 Q. I was trying to show the various 22 Α. 23 work elements that took place across both Site 3 24 and Site 6.

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Page 218 1 I want you to orient us a Q. Okay. 2 little bit and I'm going to serve as your pointer 3 and I'm going over here so you guys can see. 4 So where -- where is the Johns 5 Manville, you know, former site? 6 North and east of these two. Α. 7 Q. So up here --8 Α. That's correct. 9 -- is that right? And then where is 0. Lake Michigan? 10 11 Α. East. 12 So it's over here? Q. 13 Α. Correct. And so is this Site 3 right here, 14 0. this kind of -- I don't even know what that is a 15 16 trapezoid or something like that? 17 Yes, that's Site 3. Α. That's Site 3. And then you've got 18 ο. 19 0393 is here with this black line, is that 20 correct, right here on the northwest portion of Site 3? 21 22 Α. That's correct. 23 And then Site 6 starts here a little 0. 24 bit west of 01S and 01N, correct?

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Page 219 1 Α. That's correct. 2 Q. And then goes further east as we've 3 previously discussed, correct? 4 Α. That's correct. 5 Q. Okay. And there is a bunch of --6 what -- what do we have here? What do we have 7 here? That's the North Shore gas line. 8 Α. That's the North Shore gas line. 9 0. And what is this line here? 10 11 Α. The Nicor gas line. 12 And there is some lines that have Q. 13 Ts on them. I believe there is one here, there is one here, there is one here, there is one up 14 15 there, what are those? 16 Α. AT&T telephone lines. And what is this purple line coming 17 ο. down there? 18 19 Α. That's a fiberoptic line. 20 Okay. And then what about up here? 0. That is a fiber line as well. 21 Α. Okay. And we have green in here. 22 Q. What is the green denoting? 23 24 That is referred to as the Α.

Page 220 1 embankment. 2 Q. And what -- what is this up here, 3 this backwards L? 4 That's the City of Waukegan Α. 5 waterline. 6 And then here -- down here on your 0. 7 legend you say, "Note sample locations with ACM detected above or equal to 0.2 percent and/or 8 visibly observed ACM are shown," do you see that? 9 10 Α. I do. 11 0. Okay. Why -- why did you pick those 12 sample locations to go on your map? 13 Α. Well, the original work that had been done at the site had been -- the site had 14 15 been graded out and there were samples collected 16 from every grid. So there was a lot of sampling 17 data that did not show asbestos. These were the 18 ones that had. So I thought they were relevant to 19 making the demonstration of where asbestos was 20 detected on the property. 21 Q. Okay. Thank you. One more thing about this. 22 23 So they're boring locations in 24 Site 3 with Bs on them, B3s on them. What kind of

Page 221 1 borings were those? Α. 2 Those would have been soil borings. 3 Q. Okay. And how big is a soil boring? 4 Most of the time they're about two Α. inches in diameter. 5 6 Two inches in diameter. And how do 0. 7 you take a soil boring? You pound a sampling device down 8 Α. 9 into the ground. As you pound it down, there's an opening at the end and the soil goes up into the 10 11 device and then when you bring it to the surface 12 you crack it open and then you can see the soil 13 profile from the depth that you've just collected the sample from. 14 15 And is -- is the -- is the two ο. 16 inches representative of how much contamination is 17 located in and around that particular area in the environmental field? 18 19 Α. Typically, the boring and the sample 20 that you pull ends up being representative of a larger area, not just the specific location where 21 22 the sample was pulled. 23 Okay. And then up here in this 01S 0. 24 through 08S, 01N through 8N and then I think there

Page 222 is some S -- S3-50s and a few other in here, what 1 2 kind of boring locations were those? 3 Α. Those were test pits. 4 Okay. And how big is a test pit? Q. 5 It can vary. Typically, it's the Α. 6 width of an excavator bucket to some usually four 7 feet, five feet by five feet. It can vary, but 8 depending on the excavator used. Okay. And is that sample done with 9 0. the test pit, is that necessarily representative 10 11 of what is below the sample? 12 Α. Below --Q. 13 How much -- how much contamination 14 is right around the sample or is part of the 15 sample? 16 Α. Again, usually the sample that is 17 collected from a test pit is going to be a sample. 18 So, therefore, it's representative of the 19 materials around it, not necessarily just the 20 sample itself. Okay. And Dorgan Figure 1 here, 21 Q. how -- how is this created? We have had some 22 discussion about AutoCAD and that Mr. --23 Dr. Ebihara gave you his AutoCAD, what does that 24

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1	mean to you? What happened?
2	A. So there's a notation at the
3	bottom of our figure that references the fact that
4	we had we had based our drawing off of AECOM's
5	original DWG. That's a file format used for
6	AutoCAD. So we're able to receive a DWG file,
7	we're then able to open it in our own AutoCAD
8	software and then as was described earlier in that
9	file there is a series of layers and we can choose
10	which layers to look at and which layers to look
11	at.
12	The reason they're in layers is
13	because if you put everything into one layer you
14	would hardly be able to see anything because there
15	would be so much information. So what you do is
16	you put certain information on each layer and then
17	you choose what layers you're going to look at in
18	terms of what you're trying to represent.
19	Q. Does the when you get the DWG
20	file from Dr. Ebihara and you put it into your
21	AutoCAD, is it going to be showing the same thing
22	it would be showing in his AutoCAD?
23	A. Yes.
24	Q. Okay. And will it show will the

Page 224 state plane coordinates automatically be placed on 1 2 your figure? 3 Α. Yes. 4 And, again, the state plane Q. coordinates are what? 5 6 They're a geographic information Α. 7 system that is used to ground -- ground locate certain features relative to survey information so 8 9 that you can be precise in terms of where things are actually located. 10 11 0. Okay. So we had earlier, and I'm doing this for purposes of brevity, I think it was 12 an exhibit that was a screenshot of the AutoCAD, 13 14 do you remember that? 15 Α. Yes. 16 Q. That is not the AutoCAD drawing that you were using, that screenshot itself, to create 17 18 the maps and figures in Dorgan 1, is it? 19 Α. I didn't actually see the 20 screenshot. So I'm not actually sure what it showed. 21 Here, I think it is 229F something. 22 Q. So this was --23 24 MS. BRICE: Do you have it?

	Page 225
1	MR. NISHIOKA: I definitely have it.
2	I saved it somewhere.
3	BY MS. BRICE:
4	Q. So this was a screenshot taken so
5	this is this is not exactly what you used. I
6	mean, why don't you explain it. How explain
7	what this is compared to how this is used to
8	create your maps?
9	A. Yeah. So there is I mean, the
10	screenshot shows some basic information, but you
11	can see it doesn't show everything. So it's a
12	screenshot of whatever layers were actually being
13	projected at the time that the screenshot was
14	taken.
15	Q. So it's not everything that is in
16	the AutoCAD file that you gave to Mr. Dorgan
17	Dr. Ebihara gave to you?
18	A. That's correct.
19	Q. Thank you. What agency or agencies
20	oversaw the cleanup of Sites 3 and 6?
21	A. U.S. EPA and IEPA.
22	Q. Did AECOM submit its Site 3 and Site
23	6 maps to U.S. EPA?
24	A. Yes.

Page 226 1 And are you familiar with those Q. 2 maps? 3 Α. Yes. 4 And did U.S. EPA approve them? Q. 5 Α. Yes. 6 And does Dorgan Figure 1, does it 0. 7 align with those maps submitted to U.S. EPA? 8 Α. Yes. 9 0. How do you know that? Because we did a comparison. 10 Α. 11 Q. You did a comparison. Who did a 12 comparison? 13 Α. Weaver Consultants did. You and -- did you do it 14 Q. Okay. yourself or did you have help? 15 16 Α. Ms. Dunton supported me on that. 17 Is that Riah Dunton? ο. 18 Α. Yes, correct. 19 Q. And did you approve of the 20 comparison that she did? 21 Α. Yes. 22 Your report refers to multiple task Q. 23 buckets, what is a task bucket in your mind? 24 It's a consolidation of the work Α.

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Page 227 1 that was taking place around kind of a more 2 specific work effort that was occurring at the 3 site. 4 Turn to 204-7 in your report, Q. 5 please. 6 (Document marked as Complainant 7 Exhibit No. 204-7 for identification.) 8 BY MS. BRICE: 9 Here, you discuss the history of the 10 0. 11 remedial action process. Can you please summarize 12 that for us? 13 Α. So obviously there had been a number of investigations that occurred at the site. 14 15 Things really kind of got going when the 16 engineering evaluation and cost analysis, which we 17 had been earlier heard as an ECA was submitted by Johns Manville to U.S. EPA. U.S. EPA commented on 18 19 that, went through a series of revisions before it was finally summarized and then under that there 20 had been a series of options considered for what 21 22 was going to be done for corrective action at both 23 Sites 3 and 6 and then based upon that back and 24 forth EPA issued what's referred to here as an

	Page 228
1	enforcement action memorandum and that's what
2	really drove the work that ended up having to be
3	done at the site. It was the enforcement action
4	memorandum that really became the basis for
5	developing the scope of work that was eventually
6	
	written into the removal work plan that was
7	prepared by AECOM.
8	Q. Okay. And let's turn to Exhibit 65,
9	please.
10	(Document marked as Complainant
11	Exhibit No. 65 for
12	identification.)
13	BY MS. BRICE:
14	Q. Are you there?
15	A. Yes, I am.
16	Q. Is this the enforcement action
17	memorandum?
18	A. Yes, it is.
19	Q. And this was written by U.S. EPA?
20	A. That's correct.
21	Q. Okay. If you turn to Page 5
22	65-5?
23	
24	

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Page 229 1 (Document marked as Complainant 2 Exhibit No. 65-5 for identification.) 3 4 BY THE WITNESS: 5 Α. Yes. BY MS. BRICE: 6 7 What are the utilities on Sites 3 0. and 6 reflected in this document? 8 9 The Site 3 utilities are the North Α. Shore gas line, the City of Waukegan waterline 10 11 Commonwealth Edison both underground electric and 12 fiberoptic lines, the Nicor gas line and then a series of AT&T telephone cables. 13 And then on Site 6 we have more 14 15 AT&T telephone cables, the North Shore gas line, 16 the City of Waukegan waterline and then, again, 17 Commonwealth Edison both underground electric and fiberoptic lines. 18 19 Q. Okay. Can you turn to 65-16, 20 please. 21 MS. BRICE: And, Drew, if you can please pull that up for us. 22 23 24

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Page 230 (Document marked as Complainant 1 Exhibit No. 65-16 for 2 3 identification.) 4 BY MS. BRICE: 5 If you'll go down to maybe it's the Q. second to last sentence. It starts with 6 7 "Therefore" under B. Sorry. 8 Α. I see it. 9 Okay. Can you read that to us? 0. It says, "Therefore, excavation of 10 Α. 11 clean corridors for all such utilities must be 12 provided as soon as possible to prevent potential release of ACM and asbestos fibers. 13 What does this mean to you? 14 ο. 15 Basically, that means that they --Α. 16 U.S. EPA was requiring that a clean corridor be 17 created for certain utilities as a result of the 18 asbestos that was identified in proximity of the 19 utilities. 20 0. Right. And in the sentence right before that, it talks about "In the event of a 21 breach or other loss of integrity, pressurized 22 utilities and underground utilities also have the 23 24 potential to force overlying soils to the surface

Page 231 1 resulting in the potential release of ACM and 2 asbestos fibers," do you see that? 3 I do. Α. Now, if you can turn to 65-11, 4 Q. 5 please. 6 (Document marked as Complainant 7 Exhibit No. 65-11 for identification.) 8 BY MS. BRICE: 9 This is just by way of example. 10 0. 11 This is -- what is this? They have Site 3 12 modified alternative 2, what is this? Is this 13 EPA -- what is EPA doing here? They are basically laying out 14 Α. 15 certain conditions relative to the alternatives 16 that have been presented in the ECA. 17 ο. Are they making a decision as to what needs to be done? 18 19 Α. That's correct. 20 Okay. And what do they say onsite 0. 3B utility areas, means needs to be done? 21 22 Well, as it says here "Within 90 Α. 23 days of approval of the work plan, excavate soil 24 and sediments contaminated with ACM and/or

Page 232 1 asbestos fibers to a minimum depth of two feet 2 below each utility line and extending to the depth 3 requested by the owner of the utility line with 4 placement of a continuous barrier at the base and sides of the excavation to inhibit further 5 6 excavation and/or exposure beyond the clean fill 7 and a minimum width of 25 feet centered on each utility line and clean backfill to provide a clean 8 corridor for utility maintenance on Site 3." 9 So what is this telling you about 10 0. 11 which utilities needed clean corridors? 12 Basically all of them. Α. 13 And was there anything specific --Q. is that because -- why is that? Because they had 14 15 asbestos detected near them? 16 Α. That's correct. And what they're trying to do is prevent the possibility that in 17 the future workers come to maintain those lines 18 19 and at that point they're not dealing with hazards 20 associated with potential asbestos exposure. If you can turn to 79 --21 Q. Okay. Exhibit 79 in your book, please, for me and 22 23 actually 79 -- and what is this? 24

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Page 233 1 (Document marked as Complainant Exhibit No. 79 for 2 3 identification.) 4 BY THE WITNESS: 5 This is a correspondence from Bryan Α. 6 Cave on behalf of Johns Manville responding to the 7 administrative order on consent. Basically lodging a dispute concerning the enforcement 8 action memorandum that U.S. EPA had issued. 9 BY MS. BRICE: 10 11 0. Okay. If you turn to Page 79-7 12 under U.S. EPA action memorandum? 13 (Document marked as Complainant Exhibit No. 79-7 for 14 15 identification.) 16 BY THE WITNESS: 17 Α. Yes. BY MS. BRICE: 18 19 Q. Second sentence, can you read that 20 into the record, please. 21 Starting with "The new remedy"? Α. 22 Yes, please. Q. 23 "The new remedy expands the Α. necessary excavation to include clean corridors 24

Page 234 1 for all utilities regardless of whether impacts 2 from ACM were noted in the overlying soil during 3 the assessment." Okay. Is it your understanding of 4 Q. 5 what occurred, meaning that there was asbestos in 6 one part of the -- one part of the line and then 7 they had to take out the entire line? They had to create a clean corridor 8 Α. for the entire line. 9 So that's your understanding of what 10 0. 11 U.S. EPA was requiring? 12 That's correct. Α. 13 If you can turn to 120, please. And Q. 14 have you seen this before? 15 (Document marked as Complainant 16 Exhibit No. 120 for 17 identification.) BY THE WITNESS: 18 19 Α. Yes, this appears to be the EPA 20 response to the ECA. BY MS. BRICE: 21 And if you turn to Page 120-3. 22 Q. Paragraph 8 if you take a second and read this and 23 24 then if you can summarize for us what -- what U.S.

Page 235 1 EPA is saying here? 2 (Document marked as Complainant Exhibit No. 120-3 for 3 4 identification.) 5 BY THE WITNESS: 6 Well, they're taking a relatively Α. 7 conservative approach. They recognize that the ACM across the site is somewhat sporadic, both in 8 location and at depth and because of that they are 9 still requiring that the full utility clean 10 11 corridors be -- be advanced. 12 BY MS. GALE: 13 Q. Okay. What about in the sampling locations, so for the grids that contain ACM. 14 It 15 says the boundary of ACM-containing material 16 should be extended all the way to the nearest 17 non-detect sample, what does that mean? 18 MS. O'LAUGHLIN: I'm sorry. Where 19 are you? 20 MS. BRICE: 120-3 middle of 21 Paragraph 9. 22 BY THE WITNESS: Basically what it is saying is there 23 Α. is no asbestos at a certain location and at 24

Page 236 1 another location it's deemed to be there was no 2 asbestos detected. So they're taking the 3 materials out up to that next clean sample being conservative that -- wherever that demarcation 4 5 line is between, it's been captured. 6 BY MS. BRICE: So if one sample was contaminated, 7 0. they had to clean up everything -- in a grid, they 8 9 had to clean up everything within that grid, is that correct? 10 11 Α. That's correct. And then everything else around it 12 Q. 13 until they got to a clean grid? 14 Α. To a clean grid. 15 Okay. After creating this map, ο. 16 Dorgan Figure 1, you say you defined what you 17 called the IDOT areas of liability, what do you 18 mean by this? 19 Α. So, for me, the IDOT areas of 20 liability I started with the borings that had been identified in the Board's ruling and then I 21 considered what work had to be done because of the 22 presence of the asbestos in those specific borings 23 24 and I, therefore, attributed that work that was a

Page 237 result of and had been caused by the presence of 1 the asbestos at the locations that the Pollution 2 3 Control Board had identified them as the IDOT area 4 of liability. 5 Okay. Let's -- let's walk through Q. 6 this. 204-16. 7 Α. Just one second, please. Take a look at 204-16. Site 3 IDOT 8 Q. area of liability. Do you have that? 9 10 Α. Yes, I do. 11 0. You start out and you identify an area of liability with respect to Parcel 0393, can 12 13 you explain this, please? Yes. Well, first of all, a number 14 Α. 15 of the borings that had been identified as having contained asbestos were located within 0393 and 16 17 then I also understood that IDOT had been determined to have been owner of and in control of 18 Parcel 0393. So all of the activities that took 19 20 place within 0393 I found to be an area of liability for IDOT. 21 22 Objection. MS. O'LAUGHLIN: I'd like to lodge an objection here on relevance. 23 The 24 Board's order was very clear on what areas should

Page 238 1 be included and any testimony regarding areas outside of that area in 0393 is not relevant to 2 3 this proceeding. 4 HEARING OFFICER HALLORAN: Ms. --5 MS. BRICE: Yes, I completely 6 I think the Board's order is clear in disagree. 7 the other direction in that it's all about the interest or control with respect to 0393. 8 That's by which they were found liable and at the time of 9 the first hearing the Waukegan waterline location 10 11 was not known as we have already heard testimony 12 about and some of the work that was done -- the 13 ramp had not been done and if you read the intent of the Board's decision a violation under 21(a) 14 15 relates to if you own or control something and they said the Parcel 0393 was owned and controlled 16 17 by -- or they held a possessory interest in --18 sorry. Own is not accurate. And that that is how 19 Mr. Dorgan interpreted it, it's how I interpreted 20 it and I think that that's obviously relevant to the -- the Board can make up its mind as to how 21 that happens, but I think the evidence should come 22 23 now. 24 HEARING OFFICER HALLORAN: As

Page 239 1 before, I said the order, the 2016 order, it was a 2 little confusing and -- but based on what they had to work with, it's understandably so. I've given 3 4 so far, and I have given, the parties a little 5 latitude. The Board can interpret their own order and move forward. Because I know we don't want to 6 come back here again. So I think we should -- we 7 should go with it and have the Board decide what 8 9 they meant in the 2016 order. MS. BRICE: Thank you, Mr. Halloran. 10 11 HEARING OFFICER HALLORAN: You may 12 proceed. Thank you. 13 MS. BRICE: Okay. BY MS. BRICE: 14 15 So you have 0393 as part of your ο. 16 IDOT area of liability and then you have certain boring, sample borings, as part of your IDOT area 17 18 of liability, can you explain that, please. 19 Α. Yeah, these were specifically 20 referenced in the Board order B3-25, B3-15, B3-16, B3-50 and B3-45 the work that was done that was 21 related to these sample locations I included as 22 23 part of the Site 3 area of liability. 24 Or your damages, right, the damages Q.

Page 240 1 with respect to the response costs? 2 Α. That's correct. And so the area of liability are the 3 ο. 4 areas that the Board recognized and then you used 5 that, as I understand it, to develop your 6 attribution? 7 Α. To the extent -- to the extent any work was done related to those borings, I included 8 it in the attribution. 9 Okay. And why is that? What made 10 0. 11 you -- what about the Board's order made you do 12 that? The Board references that the --13 Α. that IDOT should be responsible for the work that 14 15 was implemented, that was caused by the actions 16 and conditions that were determined to be their 17 responsibility from the earlier hearing. So I 18 just maintained that approach in the way I looked at the attribution. 19 20 On Site 6, you identify the area of 0. 01S/04S in your IDOT area of liability, why is 21 22 that? That was specifically referenced in 23 Α. 24 the Board order.

Page 241 1 And then you -- you include 05S to Q. 2 085 in your IDOT area of liability. Did the Board 3 specifically find that IDOT buried ACM from 05S to 085? 4 5 Α. No. 6 So just to keep for reference here. 0. 7 Sorry. You guys know. 8 So 01S through 04S goes to here 9 and 05S through 08S goes to here, correct? 10 Α. That's correct. 11 Q. Briefly, and I'll go into this more in detail, why did you include 05S to 08S in your 12 13 IDOT area of liability? MS. O'LAUGHLIN: Objection. 14 15 Similarly -- but similarly for the reasons I 16 object to relevance again. The liability 17 regarding 05S to 08S was litigated at the first 18 hearing. So any testimony about 05S to 08S is 19 outside of the purpose of this hearing. 20 HEARING OFFICER HALLORAN: I'11 allow it. The Board can disregard if they see 21 fit, but you may proceed. Thank you. 22 23 MS. BRICE: Thank you. 24

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1 BY MS. BRICE:

Q. Why did you include 055 through 085 generally?

Well, first, I wasn't sure that the 4 Α. conditions that had been evaluated by the Board in 5 6 the earlier hearings were necessarily completely 7 understood. I thought maybe there was a disconnect in an understanding of some of the 8 earlier work, but more importantly I felt that 9 there was new information that had been generated 10 11 as a result of the actual removal that had taken 12 place and as Mr. Peterson earlier testified, and I 13 agree with him based on my own independent evaluation of the photos that he provided, I 14 15 believe that what was seen during the removal action was a seam of asbestos that ran from 16 17 basically the west end of Site 6 out to 04S which it earlier had been identified as having been 18 19 IDOT's responsibility, but that seam continued out 20 past 08S and I concurred with Mr. Peterson in looking at the information that is available that 21 22 that seam of asbestos material appears to be 23 consistent. There doesn't appear to have been 24 multiple construction efforts when those materials

Page 243 1 would have been placed and, therefore, it was my 2 opinion that if IDOT was responsible for 01S to 3 04S it was the same of material that continued out to 08S and I felt that it should be included as 4 5 part of my attribution. 6 MS. O'LAUGHLIN: I'd like to 7 complete my objection here. The things that Mr. Dorgan is talking about would have been more 8 proper in a motion for reconsideration. He is 9 basically talking about reopening things that were 10 11 dealt with days in the first hearing. To allow 12 him to again present testimony and regarding 05S 13 to 8A is something we have already done and to the extent that we can streamline this it would be 14 15 helpful -- or it would be appropriate. This 16 should have been done through a motion for 17 reconsideration. It should not be the subject of 18 this hearing. 19 HEARING OFFICER HALLORAN: Okay. 20 I'll address that in a minute. I think I already have three times. Ms. Brice. 21 22 I think MS. BRICE: Sure. Mr. Dorgan has testified, and we'll get into this, 23 24 in addition his argument is based upon causation

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

Page 245 1 Asbestos-containing material in the Α. 2 layer with fill that had been placed during the 3 IDOT road project. 4 And how far did that layer expand? Q. 5 Α. It extended at least as far as the 6 western end of Site 6 and out past 08S. 7 You also say that Mr. Peterson said 0. he encountered soils with ACM within IDOT fill 8 materials, can -- can you explain this and how 9 this supports your opinion? 10 11 Α. Well, the zone -- as we had 12 determined in the earlier hearing there was a zone 13 of fill materials that were placed during the road 14 construction project that were subsequently having 15 to be excavated and of the materials that were 16 excavated that were found to be within the seam 17 that was in that zone of material that had earlier 18 been determined to have been placed by IDOT. 19 0. Okay. Thank you. Just quickly can 20 you turn to 21A-23, please, and Figure 3 that we have up here which is from your report 204-40. 21 Which exhibit? 22 Α. Sorry. 204-40 and 21A-23? 23 0. 24

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	Page 246
1	(Document marked as Complainant
2	Exhibit No. 204-40 and 21A-23
3	for identification.)
4	BY THE WITNESS:
5	A. Yes. I don't think I have 21A.
6	BY MS. BRICE:
7	Q. It's in the very back. It just says
8	21, I think.
9	A. I have it.
10	Q. Do you see 21A-23?
11	A. Yes.
12	Q. What is 21A-23?
13	A. This is a profile of Detour Road A
14	from the original IDOT construction project.
15	Q. And how is that depicted in Figure
16	3?
17	A. It's basically replicated with the
18	profile that is shown at the bottom of the figure.
19	Q. What what is Figure 3 trying to
20	show all of us?
21	A. It is showing the fill that was
22	needed between the original grades that existed at
23	the time of the project and where the finished
24	elevation was intended to be.

Page 247 Okay. Could you -- do you mind if I 1 Q. 2 approach? 3 HEARING OFFICER HALLORAN: No, go 4 ahead. 5 MS. BRICE: Do you have a marker 6 with you by any chance? Here we go. 7 BY MS. BRICE: Here on Figure 3, can you tell me 8 Q. how far the construction on the Detour Road A 9 10 qoes? 11 Α. It goes out nearly to Station 15. 12 Station 15. What is a station? Q. 13 A station is just a way of demarking Α. 14 different locations along the road so that you 15 have -- they're usually on hundred foot increments 16 and it just gives both the field and the design 17 team an understanding of where you're at relative 18 to the project. 19 Q. Okay. Can you please circle Station 20 15 for us? (Witness complies.) 21 Α. How is Station 15 aligning with what 22 Q. is going on down here? Can you just sort of 23 24 explain this figure to -- what is the best way for

Page 248 1 him, to explain it to you guys to explain it to 2 the camera? 3 MS. TIPSORD: Explain it for the 4 record. 5 HEARING OFFICER HALLORAN: Explain 6 it for the record. 7 BY MS. BRICE: Explain it for the record. 8 Q. So basically what you have is the 9 Α. vertical -- the profile which is basically the 10 11 cross section --12 On the bottom? Q. 13 -- on the bottom lines up with the Α. stationing on the plan view at the top. 14 15 Of the detour road? Q. 16 Α. Of the detour road. So Station 15, 17 which I circled, lines up with 15 and the vertical profile of the bottom right of the figure and then 18 19 Station 14, which would be a hundred feet back to 20 the west lines up with Station 14 on the profile. Okay. And what is -- and what is it 21 Q. showing here that is needed at Stations 14 and 15? 22 23 Fill. Α. 24 Fill material. And that's from the Q.

Page 249 1 IDOT documents? 2 Α. That's correct. 3 Q. Okay. And what boring locations 4 does that lineup with? 5 Station 14 is basically Sample 05S. Α. 6 14 plus 50 would be 06S and 15 would be 07S. 7 Okay. And did you -- did you Q. prepare this -- this figure? 8 Yes, I did. 9 Α. We're going to talk about one more 10 0. 11 figure and 21A-26 and I gave to Ellen earlier a 12 cleaner version of that and I'm not sure if it's 13 in your binders or not, but, Doug, do you have one with the red -- yes. 14 15 Yes. It doesn't have an exhibit Α. 16 number on it, though. 17 It doesn't have an exhibit number in 0. 18 it, but what we did for the record is just try and 19 clean up this very old document and I've shown it 20 to Ellen and she agrees that it is accurate. We just put in the numbers and some of the words just 21 to make it clear. Can you explain what 21A-26 is? 22 23 Yeah, this is a profile Greenwood Α. Avenue roughly from Station 7 out to, I believe, 24

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Page 250 1 Station 15. 2 MS. O'LAUGHLIN: I'm sorry. He is 3 looking at this document? 4 MS. BRICE: Yes. 5 MS. O'LAUGHLIN: 21A-26? 6 MS. BRICE: Sorry. I apologize. Μv 7 binder is falling apart. That's the problem when you don't have tables and chairs the right way. 8 9 Go ahead. Sorry. BY THE WITNESS: 10 11 Α. I'd just like to clarify. 12 BY MS. BRICE: 13 Q. Yes. 14 Α. Are you asking me to look at 21A-26 15 or the blow up of it that was --16 Q. The blow up of it. Sorry. 17 Α. So then my earlier testimony is 18 consistent. 19 0. Okay. So is the blow up the same as the 21A-26 except it has some markings on it for 20 clarification purposes? 21 22 Yes, and it's a cutout of 21A-26. Α. 23 And what is 21A-26 showing? I'm 0. 24 sorry you might have said this. I was having a

Page 251 1 binder drama. 2 Α. Again, 21A-26, the top half of it, 3 shows the profile for Greenwood Avenue and the 4 soil conditions over the extent of the planned construction effort. 5 6 Okay. And then Figure -- Figure 4 0. 7 here, what is this document here? This is contained in your expert report, correct? 8 9 Α. That's correct. What is this document? 10 0. 11 Α. That is a plan and profile showing the Greenwood Avenue project detail with a plan at 12 13 the top and a profile at the bottom. 14 ο. Okay. And why are these going 15 backwards five-fifty to nine when the other ones 16 were going that way? 17 The stationing that was used for Α. Greenwood Avenue was different than the station 18 19 used for Detour Road A. 20 Okay. And so what -- what are you 0. showing -- what are you showing in this document? 21 Basically, again, we're showing the 22 Α. profile at the bottom that according to IDOT's 23 24 plans there was a zone of material, soft peat in

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Page 252 1 this particular case, that had to be removed before suitable fill could be brought in to 2 3 support the construction for the new Greenwood 4 road. 5 Okay. And that is going -- how deep Q. is that -- what elevation is that fill having to 6 7 be removed at, let's say, 05S? At 05. 8 Α. 9 05S is right here. 0. 05S. So it's roughly 584, I 10 Α. 11 believe. 12 And how much was -- fill was added Q. back in? 13 14 Over 5 feet. Α. 15 Okay. And then how about at 6S? Q. 16 Α. 6S it was even deeper, about 5- --17 583.9 roughly. 18 Okay. And then they had to add Q. 19 again with more fill material, correct? 20 Α. To nearly 589. Okay. And then how about at 07S? 21 Q. 07S I think was the one we just did. 22 Α. No, we did 06S. 23 0. Sorry. 24 Oh, 07S, the sample location? Α.

Page 253 1 Q. Correct. 2 Α. Again, that would be from roughly 3 583.75 or so up to about 580- -- 588.5. 4 Q. Okay. So the 21A-26 drawing was 5 done before IDOT did any work, correct? 6 That's correct. Α. 7 0. So in this area here above the peat, it says black cindery fill, correct? 8 9 Α. That's correct. Was there any black cindery fill 10 0. 11 found when the soil borings were done from 01S to 12 085? 13 Α. Not that I'm aware of. What was found instead? 14 ο. 15 Asbestos. Α. 16 Q. And if you can take a look at your report, I think you have some numbers about where 17 the asbestos was found at maybe 05S, 06S and 07S 18 19 and if you can just draw on there where the 20 asbestos was found within those zones, that would be appreciated. 21 22 HEARING OFFICER HALLORAN: The record should reflect this is still all inside 23 24 IDOT's objection beyond the scope. Ms. Brice?

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Page 254 1 MS. BRICE: Yes, he is drawing on 2 it. 3 HEARING OFFICER HALLORAN: Your 4 mask. 5 MS. BRICE: Sorry. Yes, I 6 It gets hard to remember sometimes. apologize. 7 MS. VAN WIE: Sometimes you just 8 want to remove it --9 MS. BRICE: That's true. MS. VAN WIE: -- for normal air for 10 11 a minute. 12 BY MS. BRICE: 13 Q. This is all noted in your footnote 14 in your report, correct? 15 Footnote 14 on Page 204-17. Α. 16 Q. Is where you have the elevations 17 of where ACM was found, correct, in these borings? 18 Α. That's correct. And, of course, 19 this is --20 Approximate? Q. 21 Α. Yes. I'm moving on right after this. 22 Q. Thank you, Mr. Dorgan. So I'm representing for 23 24 the record where Mr. Dorgan has drawn the lines at

Page 255 1 05S, 06S and 07S and are those all within the IDOT 2 areas of fill based upon the IDOT engineering 3 drawings from your perspective? 4 Α. That is correct. 5 Q. And I don't know how to show that to -- sorry about that. Okay. One second. 6 So 7 we've been having this dispute about 05S, 06S, 07S and 08S. 8 9 Would your attribution opinions change if you had not included 05S, 06S, 07S and 10 11 08S in your IDOT area of liability? 12 Α. No. 13 Q. Why? 14 Α. Because we already knew that there 15 was asbestos at 01S to 04S and we needed a clean 16 corridor for the entire length of the south side 17 of Greenwood Avenue. So I would have taken the 18 same approach. It's just further validated with 19 the presence of those materials at those 20 locations. 21 Q. Thank you. HEARING OFFICER HALLORAN: 22 We'll take a short break. Maybe 10, 12 minutes, is that 23 24 okay?

Page 256 1 MS. BRICE: Yes, we're making good 2 progress. 3 (Whereupon, a break was taken 4 after which the following 5 proceedings were had.) 6 BY MS. BRICE: 7 Q. All right. So I just have one quick question again about Figure 3, 204-40, which you 8 have here and you say there's work going out all 9 the way here to -- to where? 10 11 So it shows on here 07S, but how 12 much further to the east did the work occur based 13 upon the documents -- based upon the Detour Road A document 21A-23? 14 15 It shows it's out to about 15 plus Α. 50 --16 17 Q. Okay. -- in terms of the stationing. 18 Α. 19 Q. What boring location would that be? 20 That would be close to 08S. Α. And this is showing that there 21 Q. needed to be fill in that location, correct? 22 23 That's correct. At 07S. Α. 24 And at --Q.

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Page 257 1 Station 16 and the actual 08S Α. 2 location isn't actually shown on that profile, but 3 right on the edge of it. 4 HEARING OFFICER HALLORAN: Ms. 5 O'Laughlin, do you --6 MS. O'LAUGHLIN: I just don't know 7 which -- thank you. BY MS. BRICE: 8 9 0. Okay. All right. In your report, you say that you quote -- and this is on 204-15. 10 11 (Document marked as Complainant Exhibit No. 204-15 for 12 13 identification.) BY MS. BRICE: 14 15 You evaluated each task bucket to ο. 16 determine whether the IDOT area of liability 17 caused JM to incur the implementation cost 18 associated with that task bucket, can you 19 elaborate, please? 20 So what I looked at was the work on Α. any given task bucket. The work that was related 21 22 to an area that the Board had determined IDOT was responsible for if those conditions caused the 23 24 work to be done, then I included it in the

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Page 258 1 attribution. If it was not related to those 2 locations, then I did not. 3 Q. Okay. If you can turn to 204-39, 4 please. 5 MS. BRICE: And, Drew, if you can 6 please pull that up on the screen. 7 (Document marked as Complainant Exhibit No. 204-39 for 8 identification.) 9 10 BY MS. BRICE: 11 0. This is a figure from your report. And I have a couple of questions. 12 13 Do you recognize this figure? I do. 14 Α. 15 And did you create it? Q. 16 Α. Yes. 17 Okay. And this figure, as well as Q. the other figures that we have talked about, 18 19 Figure 3, Figure 4 and Dorgan 1, are they all 20 based upon the AutoCAD drawings given to you by Dr. Ebihara and the IDOT plans with respect to 21 Figure 3 and Figure 4? 22 23 Α. Yes. 24 So here on Exhibit 204-39 there are Q.

Page 259 1 orange dots in this figure. 2 What do those orange dots 3 denote? 4 Exhibit 204-39 is basically the same Α. 5 as dash 38. The exception being the location 6 where visual ACM had been observed during the 7 earlier investigation work, those locations had been highlighted with the orange circle around the 8 sample location. 9 What are you trying to show here 10 0. 11 with Dorgan Figure 2? 12 Α. Just where on the site visual ACM 13 was predominantly identified. And if there had been -- if IDOT 14 ο. 15 hadn't buried ACM for which it was found liable, 16 what do you believe would have happened based upon 17 your expertise? 18 MS. O'LAUGHLIN: Objection. 19 Misstates the record and the findings of the 20 Board. BY MS. BRICE: 21 If IDOT had not buried the ACM for 22 0. which it was found liable. 23 24 MS. O'LAUGHLIN: You're on 0393. It

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Page 260 1 was not found liable for --2 MS. BRICE: No, I'm just talking 3 about -- let's just talk about the soil borings. 4 Okay. Take out 0393. 5 MS. O'LAUGHLIN: Okay. 6 BY MS. BRICE: 7 If IDOT -- I'll take out 0393 for 0. 8 the purposes of my question. 9 HEARING OFFICER HALLORAN: 10 Sustained. Thank you. You may proceed. 11 BY MS. BRICE: 12 If IDOT had not buried the ACM in Q. 13 the soil boring locations for which it was found liable by the Board, realizing we think that the 14 15 area is bigger, but just based upon those, what do 16 you think would have happened, what would U.S. EPA 17 have required? 18 It would have likely been less than Α. 19 what was actually done. If there had been no ACM, 20 there probably would have been no work done, but certainly you can see from this figure the 21 predominant presence of surface ACM was in the 22 23 IDOT area of liability. 24 Surface or subsurface? Q.

	Page 261
1	A. Surface.
2	Q. Visual ACM observed, are you sure
3	about that being surface or subsurface?
4	A. That would have been ACM that was
5	observed at the at the I'm sorry. You're
6	correct.
7	In this particular case, there
8	were actual fragments of asbestos-containing
9	material that were present in the locations that
10	were being sampled. There were other instances
11	where ACM was observed at the surface.
12	Q. Okay. So these are visual ACM
13	fragments found buried, correct?
14	A. That's correct.
15	Q. I'd like to turn to 204-36, which is
16	right here. 204-36, do you have that?
17	(Document marked as Complainant
18	Exhibit No. 204-36 for
19	identification.)
20	BY THE WITNESS:
21	A. Yes, I do.
22	BY MS. BRICE:
23	Q. And what is this, Mr. Dorgan?
24	A. This is basically a summary table

Page 262 that presents my allocation of costs attributable 1 2 to IDOT based upon task buckets in each of the 3 sites. 4 So you have -- you have -- so ο. here -- down here all the task buckets in this row 5 that says task bucket, and do these align with the 6 7 task buckets that you were given the numbers for from Dr. Ebihara and Mr. Peterson? 8 9 Α. Yes. Okay. And then you've got Site 3 10 0. 11 and you've got numbers here and these are your 12 attribution numbers, is that correct? 13 Α. That's correct. Okay. So the allocation numbers are 14 ο. 15 much bigger than these attribution numbers in some 16 instances? 17 Α. The total cost incurred are larger 18 than these numbers in many instances, yes. 19 0. Okay. And then you have Site 6 and 20 what is this Sites 3 and 6? That was work that was done where 21 Α. there was no clear demarcation between -- the work 22 effort was done both in support of activities on 23 24 both Site 3 and Site 6 and there was difficulty in

Page 263 1 teasing them apart in terms of which site that 2 they should go into. So they were collectively 3 referenced as Site 3 and Site 6 costs. 4 Q. Did Mr. Gobelman in his expert 5 report go through the same exercise, obviously 6 reaching different attribution numbers, but using 7 the same overall costs and the costs for Site 3, Site 6 and Site 3/6 and the task buckets? 8 9 Α. Yes, he did. We have one thing in common. 10 Q. **All** 11 right. 12 You discussed the Nicor gas 13 line. You attributed nothing to IDOT for the Nicor gas line, why is that? 14 15 Because the Nicor gas line was not Α. 16 located within an area -- IDOT area of liability 17 and as a result I did not attribute any of the 18 costs to IDOT. 19 MS. BRICE: Drew, if you wouldn't 20 mind pulling that up to 204-38, please. It's Dorgan Figure 1. 21 BY MS. BRICE: 22 23 So this right here is the Nicor gas 0. 24 line, correct, it sort of cuts the Site 3 in half

		Page	264
1	about midway down?		
2	A. That's right.		
3	Q. Okay. And I believe Mr. Gobelman		
4	agreed with you on that that nothing should be		
5	attributed to IDOT for the Nicor gas line?		
6	A. That's correct.		
7	Q. Okay. I'd like to go to the		
8	Waukegan waterline and on 204-18 you discussed th	le	
9	Waukegan waterline and I believe we identified		
10	that earlier as that backwards L-shape feature or	ı	
11	Dorgan Figure 1, is that correct?		
12	(Document marked as Complainant	:	
13	Exhibit No. 204-18 for		
14	identification.)		
15	BY THE WITNESS:		
16	A. That's correct.		
17	BY MS. BRICE:		
18	Q. Okay. And before we go any further,	,	
19	you have these sort of three categories of servic	e	
20	in here in your report, can you explain that for		
21	us?		
22	A. Yeah. So the professional		
23	engineering, that would have been the work that		
24	Dr. Ebihara and AECOM and its predecessors would		

Page 265 1 have been performing and then the construction base bid was that work that was included in the 2 3 original scope that went out for bid to the contractors and then the construction T&M is as 4 Mr. Peterson described is the work that was 5 6 done -- that needed to be done, but that happened 7 after the work plan had gone in and approved. So that was done on a time and materials basis rather 8 9 than being included in the original base bid. 10 MS. O'LAUGHLIN: I'm sorry. Where 11 are you? 12 I am here right 204-18. MS. BRICE: 13 MS. O'LAUGHLIN: Thank you. BY MS. BRICE: 14 15 Did Mr. Gobelman dispute these ο. 16 numbers in any way? 17 Yes, he challenged my allocation of Α. the amounts to IDOT. 18 19 0. Right. But the base numbers, the 20 original numbers? 21 Α. No, not the total spend. Okay. What work was done on the 22 Q. Waukegan waterline? 23 24 MS. BRICE: And, Drew, if you can

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Page 266 1 please pull up 204-39 for us. 2 (Document marked as Complainant Exhibit No. 204-39 for 3 4 identification.) 5 BY THE WITNESS: 6 A clean corridor was created for the Α. 7 Waukegan waterline. BY MS. BRICE: 8 Okay. So this -- this entire line 9 0. here in a clean corridor, correct? 10 11 Α. That's correct. 12 Okay. And there's this B3-40 in Q. 13 there, do you see that? 14 Yes, I do. Α. 15 Q. And is that within -- denoting it is 16 within the Waukegan waterline area? 17 Α. No. Is it right outside of it? 18 Q. 19 Α. Yes. 20 0. Okay. Well, there is S- -- S3-40B if you see here -- actually, I think it's on the 21 Take a closer look at it or maybe, Drew, 22 line. 23 you can blow it up. 24 Do you see the mark there, the

Page 267 1 boring location? 2 Α. Yes. Which is B3-40, is that this one 3 Q. here on the line? 4 5 I believe so. Α. So is it within 0393 or on the line? 6 0. Α. 7 Yes, it's on the line at least. Okay. We've discussed earlier that 8 Q. the location of the Waukegan waterline was not 9 known at the first hearing and that they thought 10 11 it was located further south. 12 I believe you say in your report 13 that they determined it was in a different location in August and I heard Mr. Peterson say 14 15 June, do you know which one it is? 16 Α. I'm not certain. 17 ο. Okay. Do you know where you would 18 have gotten your information from? 19 Α. From Mr. Peterson. 20 So we can double check that 0. Okay. with Mr. Peterson. 21 How do you know that the 22 23 Waukegan waterline now is in the right spot? 24 Based upon the survey that was Α.

Page 268 1 provided. 2 Q. Okay. And so the centerline -- I 3 just want to explain like -- so this is the 4 centerline of the Waukegan waterline, right? That would be the waterline itself. 5 Α. 6 0. That's what I'm trying to Okay. 7 understand. It serves as the centerline of the 8 Α. clean corridor. 9 So can you explain that in words for 10 0. 11 everybody? 12 So basically on either side of the Α. waterline soils were excavated down to at least 13 two feet below the depth, the invert depth, of the 14 15 waterline. 16 Q. So that's this area and this area up 17 here? That's correct. And that was 18 Α. 19 backfilled and I think Mr. Peterson explained how 20 a geocomposite -- or geotextile was laid in, backfilled with sand and then topsoil was placed 21 in order to establish a vegetative cover. 22 23 But the actual line itself is 0. actually up here above the bottom of 0393, is that 24

			Page	269
1	right?			
2	Α.	That's correct.		
3	Q.	And so this is just the corridor,		
4	the clean co	orridor is what we're seeing when we'r	е	
5	looking at (the L, is that right?		
6	Α.	Except the waterline is represented		
7	as being rig	ght in the center of the clean		
8	corridor.			
9	Q.	Okay. How much so is is the		
10	waterline en	ntirely within parcel 0393?		
11	Α.	Yes.		
12	Q.	If you can stay on 204-18 for me.		
13	How much mor	ney was incurred for the Waukegan		
14	waterline wo	ork?		
15	Α.	\$61,037 on Site 3 and \$86,674 on		
16	Site 6.			
17	Q.	Okay. So for Site 3, how much did		
18	you attribut	te to IDOT?		
19	Α.	100 percent.		
20	Q.	I'm sorry?		
21	Α.	100 percent.		
22	Q.	And why is that?		
23	Α.	Because all of the waterline was		
24	located with	nin Parcel 0393.		

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Page 270 Okay. And how about Site 6? 1 Q. 2 Α. I attributed none of that cost to IDOT. 3 4 And why is that? Q. 5 Α. Because it was outside of the IDOT 6 area of liability. 7 Q. Okay. So I'm just trying to hurry 8 things along. 9 As I understand it, the Waukegan waterline went north out of Site 3, across 10 11 Greenwood and then there was work done on it on 12 the north side of 6, correct? 13 Α. That's correct. 14 And you're not including any of 0. 15 those costs in the IDOT attribution, right? 16 Α. I am not. Okay. So let's go back here to 17 0. 18 204-36. So here we go. This is the summary. So 19 here is your \$61,037 which is the hundred percent 20 and here is your zero for Site 6. And were there any Sites 3 21 and 6 costs incurred onsite -- for the waterline? 22 23 Α. No. 24 So your total here for the Q. Okay.

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Page 271 1 waterline is \$61,037, correct? 2 Α. That's correct. Let's turn to the AT&T lines and 3 Q. that's on Exhibit 204-20. 4 5 (Document marked as Complainant 6 Exhibit No. 204-20 for 7 identification.) BY MS. BRICE: 8 Again, you have some categories of 9 0. Can you explain these. 10 service. 11 Α. Basically, the same first three that 12 I described for the Waukegan waterline 13 professional engineering -- actually, in this case, they had -- there is work not only for the 14 15 engineering, but there was some projected costs 16 for completing the project on the professional 17 side that AECOM was intending to do and then there is the construction T&M, which I described 18 19 previously and then there was construction 20 management services provided by Dave Peterson's company related to the AT&T line abandonment and 21 then ultimately payments that were needed to be 22 23 made to AT&T regarding their work in abandoning 24 the lines.

Page 272 1 Okay. And what did AT&T do as far Q. 2 as you know with respect to abandoning the lines? 3 They basically rerouted the service Α. 4 and put it above grade on poles and took it around 5 the site. 6 And JM -- so that was -- they had to 0. 7 reroute the stuff that was underground, correct? 8 Α. Yes. 9 And JM then paid them back for doing 0. that? 10 11 Α. That's correct. 12 And that's what's reflected here in Q. 13 utility payment to AT&T? 14 That's correct. Α. 15 Q. What work was done on the AT&T lines on Site 3? 16 17 Α. They were removed. 18 Q. And how --19 MS. BRICE: Drew, if you can pull 20 up, again, Dorgan Figure 1, please. 204-38. BY MS. BRICE: 21 And how many lines -- AT&T lines 22 Q. were on Site 3? 23 24 There were 3 in total. Α.

Page 273 And how did you determine IDOT's 1 Q. 2 attribution for the work done regarding these 3 three lines? 4 I looked at the three, I looked at Α. the location of the three lines. Two of them were 5 running entirely within Parcel 0393 and one was 6 7 So I basically took two-thirds of the cost not. for the line abandonment for AT&T on Site 3 and 8 attributed it to IDOT. 9 Okay. And you're talking about 10 0. these orange lines, right, with the T --11 12 That's correct. Α. 13 -- is that correct? Q. And there is one -- there is one 14 15 up here as well. Okay. What was your total for 16 IDOT Site 3 AT&T line attribution? 17 Α. Total was \$71,710. And that's reflected here on 204-36, 18 ο. 19 correct? 20 Α. That's correct. Let's talk about Site 6. What work 21 Q. was done on Site 6 for the AT&T lines? 22 23 The same type of work. Α. Okay. And if you turn to 204-21, I 24 Q.

Page 274 1 believe you discuss how many AT&T lines were on 2 Site 6? 3 (Document marked as Complainant Exhibit No. 204-21 for 4 5 identification.) 6 BY MS. BRICE: 7 Q. Can you please discuss that for the record? 8 9 Yeah, there were -- there was one Α. AT&T phone line, one fiberoptic line that was on 10 11 the north side of Site 6, and there was one 12 telephone line that was on the south side of Site 13 6 running through the Site 6 area of liability. Okay. And where does that run 14 ο. 15 through the Site 6 area of liability? 16 Α. Right on -- you can see where it 17 comes --Is it this one? 18 Q. 19 Α. It's a continuation of --20 Is it purple? 0. No, it's one of the telephone lines 21 Α. that comes up and then you can see it running 22 right along on Site 6. 23 24 So -- right. It's this one right Q.

Page 275 1 here --2 Α. Yes. -- correct? And then it comes 3 Q. 4 through here and then runs up through here --5 Α. Right. 6 -- is that right? 0. 7 Α. That's correct. And describing it for the record, 8 Q. what -- what -- can you describe where it's 9 running through like in terms of boring locations? 10 11 It's coming in at --12 Just past 03S and then runs past Α. 08S. 13 How did you determine IDOT's 14 ο. Okay. 15 attribution for the AT&T lines on Site 6? There were a total of three lines 16 Α. 17 for AT&T on Site 6. Two of them were on the north side of Site 6, which I did not consider to be 18 19 within the IDOT area of liability. One was on the 20 south side. So I took a third of the costs for the AT&T line abandonment and attributed them to 21 22 IDOT. And what was your total for IDOT 23 0. 24 Site 6 AT&T line attribution?

	Page 276
1	A. \$88,858.
2	Q. And that's reflected here on 204-36
3	under
4	A. That's correct.
5	Q Site 6 AT&T, correct?
6	A. That's right.
7	Q. And then we come to one of these
8	Sites 3 and 6 calculations which I will admit is
9	somewhat confusing. So let's start off by
10	saying explaining what costs for both Site 3
11	and Site 6 with respect to the AT&T lines and why?
12	A. There were various steps that were
13	taken during the construction project that Dave's
14	group was providing services for. I think he
15	described a few of them earlier about some of the
16	telephone pole work and so those were related to
17	just in generally to the relocation work that was
18	being done for Site 3 and Site 6 not specific to
19	either one of them.
20	Q. Okay. And so you had a number that
21	was both Site 3 and Site 6, correct?
22	A. Mm-hmm.
23	Q. For cost incurred?
24	A. That's correct.

		Page 277
1	Q.	And did Mr. Gobelman agree with that
2	number?	
3	Α.	Yes.
4	Q.	And is that and what exhibit is
5	that from, is	s that from Mr. Peterson's exhibits to
6	your report?	
7	Α.	It's from my tabulation of the
8	documentation	n Mr. Peterson gave me.
9	Q.	Okay. Gotcha. I'm going to get
10	into this spe	ecifically in a moment and walk
11	everybody th	rough it because it's complicated, but
12	can you just	generally explain how you attributed
13	these combine	ed Sites 3 and 6 costs?
14	Α.	Yeah. So basically what I did is I
15	looked at my	attributions to IDOT for Site 3 and
16	Site 6.	
17	Q.	Can you give me numbers, too, while
18	you're doing	that.
19	Α.	\$71,710.
20	Q.	Yeah?
21	Α.	And the \$88,858.
22	Q.	Okay.
23	Α.	I then divided that by the total
24	costs that we	ere incurred.

Page 278 1 So you added those together? Q. 2 Α. Yes. 3 Q. And what was that when you added 4 those together? 5 I believe that's \$160,568. Α. 6 Okay. And then what did you do? 0. 7 I divided that by the total cost for Α. the Site 3 and Site 6 independent work. 8 9 Okay. And what was that? Q. 10 Α. \$392,918. 11 0. When you divided that, what did you 12 come up with? 13 Α. 40.9 percent. And then what did you do with the 14 0. 15 40.9 percent? 16 Α. I took the combined Site 3 and 17 multiplied it by the 40.9. What is the combined Site 3? 18 Q. 19 Α. That comes out -- well, actually, I 20 did that for each independent work effort. 21 Q. Yes. So the first one was for the 22 Α. Campanella T&M and that was \$21,901. 23 24 Okay. Let me back up because I Q.

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Page 279 think it's going to get confusing. Can we try to 1 2 do it this way? Can you turn to Exhibit F? 3 (Document marked as Complainant Exhibit No. F for 4 5 identification.) 6 BY MS. BRICE: 7 I'm going to go to 204-108. Q. MS. BRICE: Drew, if you can pull 8 9 that up, that would be helpful. HEARING OFFICER HALLORAN: 10 What 11 exhibit is this? 12 MS. BRICE: 204-108. 13 HEARING OFFICER HALLORAN: Thank 14 you. 15 (Document marked as Complainant Exhibit No. 204-108 for 16 17 identification.) BY MS. BRICE: 18 19 Q. Are you there, Mr. Dorgan? 20 Yes, I am. Α. 21 Okay. So you've got here total cost Q. right in here under AT&T Site 3 \$108,651, do you 22 23 see that? 24 I do. Α.

Page 280 And how did you come up with that 1 Q. 2 number? 3 Α. That's just a sum of the individual 4 amounts that are shown above it in the column for 5 Site 3. 6 Then you've got the \$284,266, 0. Okay. 7 how did you come up with that number? That's a sum of the total amounts 8 Α. that are shown in the column for Site 6 above it. 9 Okay. And then you -- if I 10 0. 11 understand this correctly, right underneath that 12 there is a section that says AT&T total, AT&T Sites 3 and 6 costs and is this -- is this 13 \$392,918, is that the combined number of those 14 15 two? 16 Α. Yes, that would be the sum of the \$108,651 and the \$284,266. 17 18 Q. Okay. And then you've got the 19 \$71,710 and what is that? 20 That's the amount that I attributed Α. to IDOT for Site 3. 21 Then you have the \$88,858 right next 22 Q. to it, what is that? 23 24 That's the amount attributed to IDOT Α.

Page 281 1 for Site 6. 2 Q. Okay. Then you add those together, 3 I take it, and that's where you got \$165,068 down here below? 4 5 That's correct. Α. Okay. And then your 40.9 percent is 6 0. 7 dividing the \$392,918 and the \$165,068, correct? 8 Α. That's correct. 9 Okay. And then you have this 0. IDOT -- AT&T IDOT total of 201 -- sorry. Let's 10 11 just skip that. 12 You have this under here, under 13 total IDOT attribution, Sites 3 and 6 AT&T right underneath the \$89- -- the \$98,898 you have 14 15 \$40,449, how did you come up with that? 16 Α. That would be the \$98,898 multiplied by the 40.9 -- or multiplied by .409 in this case. 17 18 Q. Okay. So down here at the bottom 19 you have AT&T IDOT total \$201,017, do you see 20 that? I do. 21 Α. And what is that? 22 Q. That's the sum of the total IDOT 23 Α. attribution row. So that would be the sum of the 24

	Page 282
1	three figures, the sum for Site 3 of \$71,710; the
2	sum for the Site 6 attribution of \$88,858; and
3	then the sum for the Sites 3 and 6 combined
4	attribution of \$40,449
5	Q. Okay.
6	A those add up to \$201,017.
7	Q. And all of those numbers, as I see
8	them, are depicted here on 204-36 in the AT&T row,
9	is that correct?
10	A. That's correct.
11	Q. Now, did Mr. Gobelman use this same
12	methodology for determining his site for three
13	plus six costs obviously using different
14	attribution numbers?
15	A. Yes, he did.
16	Q. Now, I'd like to talk about utility
17	ACM soils task bucket. Can you tell me what that
18	is?
19	A. Yeah. So this was the soils that
20	were excavated where the utilities had been. The
21	utilities were abandoned. That was part of the
22	work to relocate them so service wasn't
23	interrupted and then those soils were actually
24	excavated and removed both on the north and south

Page 283 1 sides of Site 6. 2 Q. Okay. 3 MS. BRICE: Drew, if you can please 4 pull up Dorgan Figure 1 again. 5 BY MS. BRICE: 6 Okay. Can you describe for me where 0. 7 this utility ACM soils task bucket is located on 8 Dorgan Figure 1? 9 Let me go back to that. Α. This could be on 204-21. 10 0. 11 Α. So on this figure it's shown as 12 being the soils that were excavated both on the 13 north side which is shown with the crosshatching and then on the south side of Site 6 with the 14 15 crosshatching. 16 Q. So what -- what sample locations are 17 we talking about here? 18 We're talking about from 01S out Α. 19 past 08S. 20 Okay. What about on the north side? 0. From 01N out past 08N. 21 Α. And did you attribute any of the 22 Q. 23 soils -- this work in this task bucket on the 24 north side to IDOT?

	Page 284
1	A. No.
2	Q. And on 204-21, you say the
3	enforcement action memorandum required soils to be
4	excavated from Sites 3 and 6, can you elaborate?
5	A. Yeah. So, basically, there was
6	asbestos found on both the north side and south
7	side of the right of way. Even though the utility
8	lines were being removed, it was still within a
9	public right of way. So they wanted the asbestos
10	materials to be removed so they wouldn't present a
11	future hazard to those that might come in contact
12	with it or as was discussed earlier the potential
13	of it being brought to the surface through some
14	other situation.
15	Q. And is this task bucket work
16	separate from the North Shore gas line work on
17	Site 6 that runs through some of this same area?
18	Were the costs segregated out separately?
19	A. Yes.
20	Q. So there is no double counting with
21	respect to that?
22	A. No.
23	Q. On 204-22, you say there were eight
24	utility lines involved in this work, which ones

Page 285 1 are those? 2 (Document marked as Complainant Exhibit No. 204-22 for 3 4 identification.) 5 BY THE WITNESS: 6 The City of Waukegan waterline, the Α. 7 North Shore gas line, AT&T phone lines, the AT&T fiberoptic line and then the ComEd fiberoptic line 8 and ComEd electric line. 9 BY MS. BRICE: 10 11 0. And how many of these were on the north side of six? 12 13 Α. Four of them. 14 Q. How many were on the south side of 15 six? 16 Α. Four. 17 And how many of the four on the 0. south side of 6 ran through the IDOT area of 18 19 liability? 20 Α. All of them. And did they all go through 01S 21 Q. 22 through 04S? 23 Yes. A --Α. 24 At least some of them did? Q.

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Page 286 1 At least some of them. Α. 2 Q. Somewhere in there, they hit 01S to 3 04S? 4 Α. The telephone line came past to 5 about 03S. 6 Okay. And the North Shore gas line 0. 7 comes in at --8 Α. 04S. 9 -- 04S? ComEd fiberoptic line is 0. 01S through 04S? 10 11 Α. That's correct. 12 And ComEd electric line is 01S Q. through 08S, correct? 13 14 That's correct. Α. 15 ο. So how did you calculate the IDOT 16 attribution for this task bucket? 17 I basically took 50 percent, half of Α. the total costs that were spent for the utility 18 19 and ACM impacted soil removal for Site 6 and 20 attributed it to IDOT. And why did you take half? 21 Q. Because half of the lines that were 22 Α. utility lines that were on the north side and half 23 24 of them were on the south side. So I took it

Page 287 1 50/50. 2 Q. And if that number is reflected over 3 here as well again --4 Α. Yes. -- ACM utility soils zero for Site 3 5 Q. 6 because this is all really within Site 6, correct? 7 That's right. Α. So you've got \$77,659 for Site 6 and 8 Q. that's all on the south side, correct? 9 10 Α. That's correct. 11 0. Nothing -- there was nothing in that 12 category that Mr. Peterson didn't have anything 13 for the Site 3 plus 6, correct? 14 Α. Correct. 15 MS. VAN WIE: I have a question, 16 Susan. 17 MS. BRICE: Yes. MS. VAN WIE: Does the number 18 19 reflect the work on all of Site 6 on the south side from 01S to 08S or are we just talking 20 specifically about the area 01S to 04S? 21 22 THE WITNESS: Just 08S. BY MS. BRICE: 23 24 However, would your opinion Q. To 08S.

Page 288 1 change if it was only 01S to 04S? I believe it would still have had to 2 Α. 3 be done because of the asbestos present in 01S to 04S. 4 5 MS. VAN WIE: Thank you. 6 BY MS. BRICE: 7 Let's talk about the northeast 0. excavation. 8 MS. BRICE: How much time do I have? 9 MS. TIPSORD: It's about 4:30. 10 11 MS. BRICE: Okay. Great. 12 BY MS. BRICE: 13 On 204-22, you talk about the Q. northeast excavation. We talked about that a lot. 14 15 Those are the three -- these 16 three grids basically, correct, right here on the 17 northeastern portion of Site 3? 18 Α. That's correct. 19 0. And what work did U.S. EPA require 20 to be done here? They had to remove soils through the 21 Α. three grids down to a predetermined depth. 22 23 And where does the ComEd fiberoptic 0. line run through the northeast excavation? 24

Page 289 1 It kind of traverses across the top Α. 2 of the middle one and, again, eastern and then 3 transverses the eastern grid. And how did you attribute cost to 4 Q. IDOT for the northeast excavation? 5 6 I took 100 percent of the costs to Α. 7 IDOT. And why is that? 8 Q. Because the work that was being done 9 Α. was being done because of the sample locations 10 11 that had been previously ruled by the Board as 12 being the responsibility of IDOT. And which ones were those? 13 Q. Α. That was B3-50 and B3-45. 14 15 Q. Okay. 16 Α. And then, of course, those were 17 locations representing the larger grid. 18 Q. And B3-46, which is a boring next 19 door, is not a clean boring, correct? 20 Α. That's correct. And what else was happening in 21 Q. 22 B3-46? 23 The fiber line was being taken out. Α. 24 So you attributed 100 Q. Okay.

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Page 290 percent, which was \$49,934, correct? 1 2 Α. That's correct. 3 Q. And that's reflected there on the 4 tabulation 204-36, correct? 5 Α. Yes. I will show you. 6 0. 7 Α. I see it, yes. 8 Q. You see it. Okay. And obviously northeast excavation is not on Site 6 and there 9 were no Site 3 -- so there's no Site 3 plus 6 10 11 costs, so it's just the \$49,934? 12 That's correct. Α. 13 Okay. Now, we're going to talk Q. about North Shore gas. This is the line -- can 14 15 you describe for the record -- it's sort of --16 I'll try to describe it I think just to hurry 17 things along. It cuts diagonally a bit through the northern portion of Site 3 and then it enters 18 19 into 0393 and then I think Mr. Peterson testified 20 right about 03S -- 04S-ish they capped it, correct, and then it extends east, correct, along 21 the south side of Site 6? 22 23 That's generally correct. Α. 24 Q. Okay. Fix me, please.

Page 291 They capped it where it entered Site 1 Α. 2 6, but basically put a flange on it and then now 3 that it was no longer in use east of where it 4 entered Site 6 if they excavated to remove the ACM 5 soils that we just talked about, if they had to 6 excavate down to a depth that encountered the gas 7 line, they just took the gas line out. 8 Once they no longer had to dig 9 that deep and the gas line was lower than the bottom of what they had to excavate to, they left 10 11 the gas line in, but, at that point, it was 12 abandoned and no longer in service. It could be 13 left in place. Thank you. 14 So here on 204-23 ο. Okav. 15 you have four services mentioned. 16 (Document marked as Complainant 17 Exhibit No. 204-23 for 18 identification.) 19 BY MS. BRICE: 20 We have kind of gone through the --0. actually, on -- North Shore gas is kind of 21 22 important. There is construction T&M for North 23 Shore gas Site 3. It's in T&M. It's not in 24 necessarily like the base bid and I think

Page 292 1 Mr. Peterson might have testified about this, but 2 can you explain your understanding of why that is? 3 Α. Yeah, I believe that was primarily 4 related to in order to deenergize the gas line so 5 they could cut it and cap it where it enters -where it goes from Site 3 to Site 6 they had to 6 7 shut the gas supply off. So they had to access that valve that Mr. Peterson talked about. 8 So 9 that they could actually turn the valve off, turn the gas off, do the disconnection, put the new 10 11 flange on and then they ultimately reenergized 12 just that portion that traverses across Site 3. 13 Q. And let's just take -- you have in 14 here utility payments to North Shore gas on 15 204-23, what is that? 16 Α. That was work -- that was for costs 17 that they paid to North Shore gas for the work 18 that they did in support of this abandonment 19 effort. 20 Okay. So as we said on Site 3, they 0. capped it and -- they deenergized the line and 21 they capped it, correct? 22 23 Α. Correct. And then what else did they do? 24 Q.

Page 293 They created a clean corridor. 1 Α. 2 Q. They created a clean corridor. And 3 how did you determine IDOT's Site 3 North Shore 4 gas attribution? And if you can please use boring 5 numbers and your Dorgan Figure 204-38 to describe 6 it for the record, it would be much appreciated? 7 Well, the clean -- the gas line and Α. the clean corridor that was needed for it ran up 8 through the boring locations B3-50 and B3-15 which 9 were both identified as borings in the Board's 10 11 order as IDOT responsibility and the clean 12 corridor was required to be constructed for the 13 remainder of the line regardless whether asbestos was found in it. So I attributed a hundred 14 15 percent of the North Shore gas Site 3 clean corridor to IDOT. 16 17 And just for the record, were there 0. any borings along the North Shore gas line on Site 18 3 that were not identified by the Board to be 19 20 contaminated? 21 Α. No. 22 Q. So what was your total North Shore gas Site 3 attribution? 23 24 Α. \$332,524.

Page 294 And that's here under the row for 1 ο. 2 North Shore gas on 204-36. 3 Okay. Let's talk about Site 6. 4 Can you show us or explain for the record, more 5 likely, and we just sort of talked about it, but I'd like you to explain it please where the North 6 7 Shore gas is on the south side of Site 6? So when the EAM was written, there 8 Α. was still the intention at that time of actually 9 putting the clean corridor in for the North Shore 10 11 gas line. Later on, it was determined that they 12 were going to end up capping that, but they still 13 were required to have the clean corridor across all of the south side of Site 6 as far as where 14 15 the North Shore gas line ran to and that was all 16 part of the clean corridor construction. 17 Okay. And you said the capping --Q. 18 did the capping occur at what boring location? 19 Α. 04S. 20 And is that an area that the Board 0. identified as an area of liability? 21 22 Α. Yes. Did you attribute any costs 23 0. associated with the North Shore gas line on the 24

Page 295 1 north side of Site 6 to IDOT? 2 Α. No. 3 Q. Why not? 4 Α. Because it was outside of the IDOT 5 area of liability. 6 And at time -- you talk about the 0. 7 enforcement action memorandum. At the time of the enforcement action memorandum, was there any 8 asbestos containing material east of 08S that had 9 been detected? 10 11 Α. No. 12 So what -- what is that telling you, Q. 13 what was driving the need to do the clean corridor? 14 15 Α. The asbestos that had been 16 identified from 01S to 08S was driving the clean 17 corridor construction, the remainder of the south side of Site 6. 18 19 0. And, again, if 05S to 08S weren't 20 part of your opinion, would you still -- let me back up. 21 Would your opinion be the same 22 if the IDOT area of liability in your report was 23 24 just 01S to 04S?

Page 296 1 Α. Yes. 2 Q. And explain, again, please why? 3 Α. Because the presence and the 4 potential presence of asbestos along the clean corridor would have driven the need for the clean 5 6 corridor itself. 7 And Mr. Peterson testified about the 0. photographs taken along the south side of 6. 8 9 Do you -- do you have any opinions about those photographs --10 11 Α. Yes. 12 -- other than what you've already Q. 13 stated? 14 Yes, I've already stated that I Α. 15 believe it's consistent with his description. Ι 16 can see a seam of material that is rather uniform 17 in depth and inconsistency across that entire site. 18 19 0. Okay. So how did you attribute the 20 Site 6 North Shore gas cost to IDOT? I believe I took the total amount of 21 Α. work that was done for North Shore gas on Site 6 22 and I calculated just the number of feet that were 23 24 related to work that was done within the IDOT area

Page 297 1 of liability and made that attribution. 2 Q. And how many feet -- how many feet 3 was that? 4 It was 560 feet. Α. 5 Okay. But you have something in Q. 6 here that talks about 205 lineal feet, is that on 7 the south side of 6? That's on the total. 8 Α. 9 Are you sure about that? 0. I believe so. 10 Α. 11 0. Okay. So 205 lineal feet and then 12 560 feet is what you believe happened -- sorry. 13 Can you explain that again? I got lost. 14 15 Yes, 560 feet was the distance that Α. 16 was within the IDOT area of liability. 17 Okay. And where is that? What does Q. the 560 feet comprise of? 18 19 Α. That would be from 04S to 08S. 20 0. Okay. So how did you get your 27.9 21 percent? Actually, excuse me. 22 Α. That would have been the linear feet from 04S to the eastern 23 24 extent of the North Shore gas line run on the

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Page 298 1 south side of Site 6. It then goes underneath 2 Greenwood and continues running east on the north 3 side. So that 560 would have been that length 4 from where it enters Site 6 and runs to, I 5 believe, it's somewhere around location 30. 6 Okay. And the 2005 is the amount of 0. 7 what? The total linear feet for the North 8 Α. Shore gas line work that was done on Site 6. 9 And that was North Shore gas line 10 0. 11 work of what was removed, correct? 12 That's right. Α. 13 Okay. And then you take and you got Q. the 27.9 percent how? 14 15 Divided the 560 linear feet by the Α. 16 2005 linear feet. To give you 27.9 percent? 17 Q. 18 Α. That's correct. 19 0. And how do you get to your 20 attribution to IDOT? Basically, take the total amount for 21 Α. Site 6 and multiply it by the 27.9 percent. 22 23 Okay. So the total amount for Site 0. 6 for the North Shore gas costs which was given to 24

Page 299 you by compiling what you got from Dr. Ebihara and 1 2 Mr. Peterson, correct? 3 Α. That's right. 4 And then you multiplied that by the Q. 5 27.9 percent and came up with \$65,597? 6 That's correct. Α. 7 Q. Okay. And, again, that's on the figure over here 204-36? 8 9 Α. Yes. Okay. So there is a Sites 3 and 6 10 0. 11 cost category for the North Shore gas line on 12 204-35 -- it must actually be 25, I think, not 35. 13 (Document marked as Complainant Exhibit No. 204-25 for 14 15 identification.) 16 BY MS. BRICE: 17 Q. Can you explain to me what those 18 costs were? 19 Α. Yeah, those were the costs that were 20 implemented that Campanella incurred on a T&M basis and some of Dave Peterson's oversight costs 21 22 related to the North Shore gas line work that was 23 being done in support of the clean corridor on 24 both Site 3 and Site 6.

Page 300 1 Okay. And who made the Q. 2 determination that they applied to both Site 3 and 3 Site 6? 4 Mr. Peterson. Α. 5 Q. Okay. Let's go back to Exhibit F. 6 We have a number of these complicated calculations 7 and if you can turn to 204-108 -- I mean, 109. 8 Sorry. (Document marked as Complainant 9 Exhibit No. 204-109 for 10 11 identification.) 12 BY MS. BRICE: 13 Q. I'm going to be focusing here on similarly these similar columns and then down here 14 15 on the bottom under North Shore gas there's a 16 calculation that is shown, correct --17 Α. That's right. 18 -- underneath? So can you explain Q. 19 these numbers, the \$332,524, what number is that? 20 That's the IDOT attribution for Site Α. 3. 21 22 MS. BRICE: Drew, can you pull that 23 up, please? Thanks. 24

Page 301 1 BY MS. BRICE: 2 Q. And what is the \$234,861? 3 Α. That's the total cost for Site 6 4 North Shore gas line work. 5 Okay. And then 332 -- so that's 524 Q. because that's the same number in the attribution 6 7 because you attributed 100 percent for Site 3, 8 correct? 9 Α. That's correct. And then under here for Site 6 you 10 0. 11 have \$65,597 and how did you come up with -- what 12 number is that? 13 That is the percentage that I Α. attributed -- that's the allocation to IDOT based 14 15 upon that 27.9 percent calculation we discussed earlier. So that would be the sum of the IDOT 16 17 attributions from the column above where that 18 number appears. 19 0. Understood. So it's over here a 20 little bit to the right. So if you go down under North Shore gas, the Sites 3 and 6 column right 21 beneath that -- the \$40,826 you've got \$567,385, 22 23 is that just adding together the numbers, the 24 \$332,000 and the \$234,000?

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Page 302 1 That's correct. Α. 2 Q. Okay. And then the 398 number, is 3 that adding -- what is that adding exactly? 4 Α. That's adding the \$332,524 plus the 5 \$65,597. 6 Okay. How did you get to this 70.2 0. 7 percent? Basically, the 7 -- \$398,121 8 Α. represents 70.2 percent of the total cost. 9 And how did you get to this 10 0. 11 attribution of costs for the Site 3 and Site 6? 12 I multiplied the total cost by Α. 0.702. 13 So the total -- so the total cost is 14 Q. 15 \$58,157? 16 Α. That's correct. And then you multiplied that by the 17 Q. 18 70.2 percent by that \$58,157 to get to \$40,826? 19 Α. That's correct. 20 0. Did Mr. Gobelman approach this the 21 same way? 22 He did. Α. 23 HEARING OFFICER HALLORAN: You have 24 about ten minutes, Ms. Brice, please.

1 BY MS. BRICE: 2 Q. Okay. We're going to move on to 3 dewatering, which start on 204-25. Can you tell 4 us what dewatering is? 5 Dewatering is basically you either Α. 6 drive some well points or you put a pump in the 7 bottom of a hole and you begin pumping the water out to press the groundwater table so that any 8 work you need to do at an elevation below the 9 groundwater table can be done in dry conditions 10 11 rather than underwater. 12 And why is it necessary? Excuse me. Q. 13 Because you can't actually work in Α. 14 the subgrade if you're trying to work in the water 15 basically. 16 Q. Okay. In general, what was your 17 approach to determining IDOT's dewatering attribution? 18 19 Α. I basically looked at the elements 20 of the work that were needed to have dewatering done in order to implement them. 21 22 Okay. So let's -- let's -- let's go Q. here to 204-26. What dewatering work was done on 23 24 Site 3?

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Page 304 (Document marked as Complainant 1 Exhibit No. 204-26 for 2 3 identification.) 4 BY THE WITNESS: The dewater in order to do the clean 5 Α. corridors for the Nicor, North Shore gas, the City 6 7 of Waukegan waterline and then also for the northeast excavation. 8 BY MS. BRICE: 9 Okay. And you've got -- if you can 10 0. 11 turn back to 204-25 you've got multiple different 12 categories of service here, do you see that? 13 Α. I do. Okay. And I believe that you 14 Ο. 15 treated these somewhat differently, why -- why is 16 that? 17 Α. There was just some variability in terms of the work that was done between Site 3 and 18 Site 6 and then Mr. Peterson had kind of filled me 19 20 in on certain activities that were more focused on individual work elements than on a collective work 21 22 element. 23 So let's take this one by one. 0. So the first paragraph of 204-26 under Site 3, you're 24

Page 305 1 talking about the Campanella base bid dewatering work and that number is the -- is what? 2 The total 3 cost, where does that come from? 4 Α. The total cost for the dewatering 5 work for Site 3 was \$259,000 and that comes from 6 Mr. Peterson's tabulations. 7 Right. But I'm just talking about 0. the first paragraph on this one. 8 Oh, the construction? 9 Α. Yeah, I'm talking about -- I'm going 10 0. 11 to go paragraph by paragraph. 12 So you have the Campanella base bid? 13 14 Α. Mm-hmm. 15 So Mr. Peterson gave you that Q. 16 number, correct? 17 Α. That's correct. 18 Okay. So can you explain how you ο. 19 came to this 75 percent attribution and this total 20 of \$105,600? Yes. So there were basically of the 21 Α. work elements that required dewatering, three of 22 them I had previously determined to be IDOT's 23 24 responsibility, that was the North Shore gas line,

Page 306 1 the City of Waukegan waterline and the northeast 2 excavation. 3 The last one, which was the 4 Nicor line, I had not included. So basically I 5 took three quarters of the work effort for the 6 dewatering under the Campanella base bid and 7 attributed it to IDOT. Okay. And this is all for Site 3, 8 Q. 9 correct? That's for Site 3. 10 Α. 11 0. And you took those and you took 100 percent of those because you had attributed 100 12 13 percent to each one of those three task buckets, correct? 14 15 Α. That's correct. 16 Q. Okay. Now, if you move down to 17 Paragraph 2, you've got Campanella T&M dewatering services. 18 19 Can you explain this paragraph a 20 bit? You also have the 75 percent. Can you explain what you did here? 21 Yeah, my understanding is that this 22 Α. 23 was kind of a cost-saving measure. They had to 24 move water from the south side of Greenwood Avenue

Page 307 1 to the north side to tie into the North Shore 2 Sanitary District sewer line. So they had to put 3 basically a line in underneath Greenwood Avenue in 4 order to accommodate management of the water being 5 generated from the dewatering operation. 6 So how did you determine that 0. Okay. 7 the percentage, the 75 percent should apply here, and that IDOT's attribution should be \$18,244? 8 I used the same methodology. I 9 Α. applied the 75 percent in that three of the four 10 11 work elements were attributed to IDOT. 12 And that's because those three of Q. 13 the four work elements were driving the need for that work that you just described? 14 15 That's correct. Α. 16 Q. Okay. Under the next paragraph, Paragraph 3, there is 100 percent attribution to 17 IDOT, why -- why is that? 18 19 Α. This was work -- this was the work 20 that we described previously. Mr. Peterson described as being related to the -- being able to 21 22 install the valve, which was at the western 23 boundary of the North Shore gas line so that they 24 could cut it and cap it at that Site 3/Site 6

Page 308 1 boundary. 2 Q. So, once again, we're -- we're still 3 on Site 3, correct? 4 That's correct. Α. 5 Okay. So he is doing work here that Q. 6 he says is only related to the North Shore gas 7 line? 8 Α. That's correct. 9 And because you attributed 100 0. 10 percent to the North Shore gas line, you 11 attributed 100 percent for this work that was only 12 North Shore gas line related on Site 3? 13 Α. That's correct. 14 Okay. Fourth paragraph, these are ο. 15 the DMP-incurred expenses associated with 16 discharge of water generated from dewatering activities to the North Shore Water Reclamation 17 18 District. 19 Can you explain what you did 20 here? So these were fees, I mentioned 21 Α. earlier that they had tied into the sewer system 22 for North Shore Sanitary District. They were 23 24 required to pay a fee to the district for taking

Page 309 1 and treating that water and that's what these 2 costs were related to. 3 Q. Okay. And how did you come up with the allocation? 4 It's rather complicated. 5 It's all Α. 6 explained in Footnote 19. 7 Q. Okay. It has to do with the actual days of 8 Α. dewatering that were being undertaken for the 9 different areas and I basically -- Mr. Peterson 10 11 broke it down for me in terms of what days 12 dewatering was being done where and when you total 13 it all up it comes out to \$19,429. So you went to -- you got 14 ο. Okay. 15 into the details here to make sure you got it 16 right? 17 Α. Mm-hmm. Yes. 18 Q. Okay. 19 MS. BRICE: Mr. Halloran, is this a 20 good place to stop? 21 HEARING OFFICER HALLORAN: Yeah, 22 because we're going on to Site 6 now? 23 MS. BRICE: Yes. 24 HEARING OFFICER HALLORAN: A11

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Page 310 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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1	BEFORE THE ILLINOIS POLLUTION CONTROL BOARD
2	
3	I, Steven Brickey, Certified Shorthand
4	Reporter, do hereby certify that I reported in
5	shorthand the proceedings had at the trial
б	aforesaid, and that the foregoing is a true,
7	complete and correct transcript of the proceedings
8	of said trial as appears from my stenographic
9	notes so taken and transcribed under my personal
10	direction.
11	Witness my official signature in and for
12	Cook County, Illinois, on this day of
13	, A.D., 2020.
14	
15	
16	
17	
18	STEVEN BRICKEY, CSR, RMR, CRR
19	8 West Monroe Street
20	Suite 2007 Chicago, Illinois 60603
21	Phone: (312) 419-9292 CSR No. 084-004675
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23	
24	

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